

Growth of Indian Agriculture: A District Level Study

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Growth of Indian Agriculture: A District Level Study

Introduction

Information and knowledge on the level of agricultural development below the state level is prerequisite to design policy measures for development of backward regions. The available study on agricultural development at the district level analysis by Bhalla and Singh (2001) covers the period from 1962/5 to 1990/3 only. Almost a decade has passed since then. A number of significant developments have occurred since then. Numerous policies and programs have been initiated in Indian economy under the ongoing processes of liberalization and globalization (under the GATT/WTO agreement). The main aim of the proposed study is to assemble district level evidence for a broader assessment of development and growth in Indian agriculture for the latest period 2001/2-2003/4, the period for which the latest district level data is available. More specifically, the main objectives of the study are:

- (i) To examine the level and growth of aggregate crop output and yield at the district level for all the districts in India during 1990-93 to 1999-2002.
- (ii) To calculate the changes in per worker output during 1990-93 to 1999-2002.
- (iii) To identify the policy initiatives for development of the districts lagging behind in agricultural development.

However, before embarking on to examine the performance of agriculture growth across districts in India it would be worthwhile to have a macro overall view of the Indian agriculture. A broad overview of emerging trends and tendencies in wake of the recent developments following the processes of liberalization and globalization of Indian economy since early 1990s, expected to equip us in better understanding of the emerging district level spatial pattern and dynamics in the Indian agriculture.

2. Agricultural Performance: An overview

After recording unprecedented high growth of 4.7 per cent a year during the period of Eighth Five Year Plan (1992-1997), growth of the agriculture and allied sectors decelerated to 2.1 per cent during the Ninth Plan (1997-2002) (GOI, 2005). It further dipped to 1.0 per cent during the first three years (2002-05) of the Tenth Plan against the targeted growth of 4 per cent per annum. Moreover, deceleration cut across almost all the sub-sectors and every crop sector (GOI, 2005). Still worse, the farm income declined more than the output and marked by increased yearly variations. By now it is well accepted that the serious setback to

agriculture during the Ninth Plan and the Tenth Plan is not entirely related with short term fluctuations induced by the erratic monsoons but also has its origin in deeper problems related with agricultural strategy of the post reform period (GOI, 2005).

The post reform performance of agriculture is contrary to earlier expectations. In fact a great hope was raised when economic reforms were initiated in India in the early 1990s. Most of the reforms, at least in the earlier phase, were mainly focused on industry, foreign trade and investment, tax and financial sectors. But these were expected to create favourable policy framework for agricultural development (Bhalla, 1995, and Singh, 1995). The rationale for such macro economic reforms benefiting agriculture can be traced in a number of studies during eighties and nineties showing anti agriculture bias in the development strategy followed in most of the developing countries. It was argued that the overvalued exchange rates, excessive protection to industries, regulation of agricultural prices and keeping terms of trade unfavourable to agriculture (to extract surplus for promoting industrialisation), high import taxes and export duties on agricultural commodities were part of instruments of agricultural policies in the developing countries(see, Kruger, Schuff and Veldas, 1991). Therefore, it was expected that economic polices in the form of devaluation of rupees, delicensing and dis-protection of industries, liberalisation of financial markets and liberalisation of foreign trade alongwith with favourable agricultural prices would remove the distortions, create a more profitable agriculture that would facilitate its modernisation and expansion of agriculture sector (Singh 1995). Furthermore agriculture was also expected to benefit from the delicensing and decontrol on food- and agro-processing industries. Such measures, it was hoped, would facilitate the entry of experienced domestic and foreign firms, which alongwith upgradation of infrastructure will lead to their rapid development and harnessing of the enormous potentials in this sector (GOI, 2004). Some others, however, expressed scepticism of such gains to Indian agriculture from the reforms that have not actually targeted the agricultural sector (Balakrishnan 2000).

Furthermore, a hope was also raised from the agreement on agriculture under world trade organisation (WTO). It was expected that though most of the Indian agricultural products enjoy comparative and competitive advantage, signing of WTO would further improve competitive edge on India in international market (GOI, 1994). Institutions like WTO were considered essential for providing a level playing field to developing countries in international market (Rao, 2001). Reduction of production and export subsidies and rolling

back of non-tariff barriers by the developed countries in compliance to the WTO requirements would provide welcome stimulus to agricultural exports from India, specifically exports of high value labour intensive allied agricultural products (GOI, 1994, Bhalla 1995). Integration of domestic markets with the international markets was expected to improve the domestic terms of trade in favour of agriculture, reduce the distortions of domestic prices and inefficiency in allocation of resources. Consequently, it would boost production and productivity of Indian agriculture (Rao 1994, and Singh 1995). On the contrary, some scholars feared that liberalisation of trade could destabilise the domestic prices. Serious doubts were also raised regarding the capabilities of the resource poor, subsistence and unorganised farmers to withstand the competitive environment of the modern markets dominated by the powerful organised groups (Rao 1994).

Recent serious slow down in Indian agriculture is contrary to hopes and expectations from the liberalisation and globalisation of the Indian economy. Mid-term appraisal of the Tenth Five Year Plan cites number of reasons in this context. These includes declining public investment in agriculture, unabated degradation of natural resources, weakened support systems resulting from feeble financial positions of state governments, unresponsive research system and near breakdown of the agricultural extension services. Furthermore, deceleration in Indian agriculture coincided with the downturn in the world prices of agricultural commodities adversely affecting the domestic prices due to greater openness (GOI, 2005).

The slow down in agricultural growth not only retards the overall growth in the economy but is likely to be seriously affecting the well-being of the rural population as almost 60 per cent of them still depend on agriculture for their livelihood. Moreover agriculture slow down may seriously impede the employment generation and poverty alleviation in India as there is almost one to one correspondence in agricultural growth and reduction of rural poverty (Mellor, 2000, and Singh, 2003). There is almost unanimity among scholars and policy makers and the development experience of India and other fast growing economies in the world suggests that for a country to achieve a sustained economic growth around 7 per cent or higher, its agriculture has to grow around 4 per cent (Acharya 2003, Singh 2005, and Ahluwalia 2005). Revival of agricultural sector is not only the question of growth and prosperity of the nation alone, but is also intimately related with livelihood and well being of the majority of the Indian population.

. The overall agricultural scenario notwithstanding, the disparities in agriculture continue to persist in Indian agriculture. It is alleged that in free the play of market forces, skill and infrastructure become guiding principal for private investment and both are generally concentrated in developed regions. In a federal state like India, persistence disparities beyond a threshold, pose potential danger to the peace and harmony in the country as the lagging regions may consider their deprivation as manifestation of regional injustice. Origin of many violent anti-constitutional movements and demands for smaller states can be traced to regional disparities. Most of the studies examining development and disparities are based on the comparison of the level and growth of per capita income across the Indian states. However, state level development masks substantial intra-state disparities and provides misleading picture on homogeneity for all its regions. Such information may slacken effectiveness of any regional policy for development of the lagging regions. Similar disparities were also observed within each state. For example, workers productivity in Ganganagar district in Rajasthan is comparable with any prosperous district of the most developed state of Punjab whereas production per workers in Barmer district of the same state (Rajasthan) is no better than any backward district in the least developed state of Bihar. This implies that any state level analysis of agricultural development, tends to masks such wide inter-district differences in the level of development. Therefore only district level analysis can provide deeper insight into the dynamics of regional disparities both at the broader country level as well as for individual states.

Indian development strategy recognised the need of regional policy right from its inception in early fifties. To enable the lagging regions to share in the benefits of faster national growth, various special assistance programmes like ‘Desert Development Programme’, ‘Drought Prone Area Programme’, special plans for *Hill and Western Ghat* regions, KBK districts of Orissa, Backward District initiative and *Rashtrya Sam Vikas Yojana* (RSVY) and recently announced ‘Mahtama Gandhi Backward Region Development Fund’ to redress regional imbalance were initiated from time to time. Besides the direct interventionist strategy, there is a built in mechanism in favour of poor states in the Gadgil-Mukherjee formula for devolution of resources from the central pool to states. Despite all these affirmative actions, gap continues to persist between developed and backward regions in India. Recognising the urgent need to develop the backward regions, Central Government announced a package of Rupees 25000 crores in the Union Budget 2004-04 for development of the poor states. Besides the special package, the current budget also announced the

concentration of poverty alleviating employment generation programmes in the 150 most backward districts in the country. First and foremost requirement in formulation and implementation of such affirmative plans and programmes is the availability of most update and reliable information on the level of development at the lowest possible level of disaggregation in each state/union territory. The district can be the most appropriate unit in this context as most of the information on India agricultural below state level is compiled and made available only at the district level. District level indices of development can also be fruitfully utilised in decentralised planning as most of the development programmes and policies below state level are mainly implemented and managed at the district level.

The study is structured in the following order. Succeeding section presents an overview of the actual realisation and earlier expectation of Indian agriculture under the reforms. Section 3 describes the data and methodology. Section 4 analyses the spatial pattern of agricultural development in 581 districts in India during 2001-04 on the basis of land and labour productivity scales. Chronically underdeveloped districts are identified. Section 5 looks at the spatial pattern of district level agriculture growth during the pre- and post- reform periods. Role of area and yield as sources of agricultural growth is examined in section 6. Section 7 deals with examination of the observed district level pattern of development and the use of modern inputs Indian agriculture. The results are summarised in the concluding section of the study.

3. Data and Methodology:

(i) Data Sources:

Directorate of Economics and Statistics, Ministry of Agriculture (MOA), New Delhi, compile information on area, production and productivity of various crops both at the state and district levels. Though the state wise information is made available without much delay, the district wise information is published with considerable time lag. Moreover, information is rarely published for all the districts, for all years and for all crops. However besides the MOA, a number of other commodity boards like ‘Horticulture Board’, ‘Tea and Coffee Board’, and ‘Condiments and Spices Board’, and some crop directorates like Directorates of wheat, rice, sugarcane, and millets development also compile and publish district wise information on area, production and productivity of various crops. Similarly in almost all states, Directorates of land records, Departments of Agriculture, and Economic and Statistical Organisations of almost all major states also compile and publish district- and crop-wise

information for their respective districts. For the North-East states, the North East Region Development Council (NEDC) compile district level information on various socio-economic aspects of states in this region. Information available on data bank web site of the NEDC was also used to estimate district level agricultural output in these states. In the present study, we supplemented the MOA data with information generated by these sources for maximum coverage of all districts and crops including major condiments and spices, and fruits and vegetables crops. Utilising information from these sources, finally we were able to compile year wise information for 45 crops for all the districts included in our study. The present study, therefore, extended the crop coverage from 35 in the early study (Bhalla and Singh (2001)) to 45. Consequently the present study is much wider and comprehensive in crop coverage than earlier ones. A list of crops covered in the study is appended in Appendix -1.

To estimate the level and growth of labour productivity across districts, we utilised the district level information on employment of workers in the agriculture sector collected during the population census of India, 1991 and 2001. Unlike the earlier district level studies, total number of the main workers for present study includes both male and female workers, whereas the earlier studies were based on the information for male workers only. The study therefore is an improvement over the earlier ones as the male-female labour ratios not only vary across different districts/states in India but it also captures the dynamics, if any, in the changing facets of male-female workforce in Indian agriculture. The study however does not include the marginal workers due to many aggregation problems of marginal and main workers together, which are beyond its scope.

Information on various correlates of district level growth and productivity is compiled from various web sites and publications brought out by the Directorate of Economics and Statistics-Ministry of Agriculture[land use pattern and irrigation], the Department of Animal Husbandry, Dairying and Fisheries (DAHD&F) [agricultural implements and machinery], Ministry of Home Affairs[drought and flood affected districts], Reserve Bank of India[agriculture credit supply by the scheduled commercial banks], Fertiliser Association of India[fertiliser consumption], International Institute for Population Sciences[IIPS, 2006a & b for composite indices of district wise health status-based of 10 RCH and 13 socio-economic indicators], Director General, Census of India[agricultural workers and literacy], and Statistical Abstracts of various States and Union Territories.

(ii) Prices and value output:

In the present study, to convert the physical production into monetary term, first the implicit year wise prices for each crop were derived using the physical output information compiled by the Ministry of Agriculture and crop wise value estimates compiled by the Central Statistical Organisation and published in National Account Statistics. To overcome the yearly fluctuations, a weighted average of three year prices for 2001-2, 2002-3 and 2003-4 was used to estimate the value output for each crop for the triennium 2001-04. The three-year average price has been employed mainly to overcome any major fluctuations in prices, which are much common in the case of agricultural commodities. The crop wise value output in each 45 crops in a district has been aggregated to obtain the value of output for the 45 crop sector in each district. However, the 45 crop sector does not cover all the crops in a sector. For estimating the value output for whole of the area under cultivation in a district, we assumed that per hectare output of the left over area was same as the per hectare average value output of the 45 crops sector covered in the study. Consequently, to estimate the value out for all crops in a district, first of all the area under the left over crops was estimated as the differences between the gross cropped area in the district in a particular year and area under the 45 crop sector. Then the value output for whole of the area in a particular district was estimated as under:

$$\text{Total value output} = \text{Value output of 45 crops} + [(\text{Gross cropped area} - \text{Area under 45 crops}) * \text{per hectare value output of area covered}]$$

The total value output so derived has been used for subsequent analysis of growth and productivity across at the district level. Crop wise prices so estimated during the triennium 2001-04 are provided in Appendix-1.

(iii) Districts Covered:

The study covers 581 districts falling in 33 states and union territories of India. The states included are; Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Maghalalya, Mizoram, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttaranchal and West Bengal. Besides these, we also included the districts falling in the Union Territory (UT) of Pondicherry. However, due to their small size, the union territories of Andeman and Nicobar

Islands, Dadar and Nagar Haveli, Daman and Diu, and Lakshadweep were treated as single districts. Only Union Territory of Chandigarh and Delhi state are left out of the study because they are virtually urban centres. Besides these two UTs, the study also excludes major metropolitan and urban/suburban districts for obvious reasons. These are: Hyderabad district in Andhra Pradesh, Bangalore in Karnataka, Mumbai, and suburban-Mumbai districts in Maharashtra, Chennai in Tamil Nadu, and Calcutta metropolitan district in West Bengal state. Therefore unlike the earlier district level study (Bhalla and Singh, 2001), which covered districts falling in 17 major states in India, the present study expanded universal coverage of all districts in the country so far as its agriculture (crop) economy is concerned.

To trace out any regional pattern in agricultural performance, the districts were further grouped into the following five broad regions:

| Region | Districts falling in the states |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| <u>Northern Region:</u> | Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Uttar Pradesh, and Uttaranchal. |
| <u>Eastern Region:</u> | Bihar, Jharkhand, Orissa, and West Bengal. |
| <u>North-Eastern Region:</u> | Arunachal Pradesh, Assam, Manipur, Maghalalya, Mizoram, Nagaland, Sikkim, and Tripura |
| <u>Western-Central Region:</u> | Goa, Gujarat, Madhya Pradesh, Chattisgarh, Maharashtra Rajasthan, Dadr and Nagar Haveli, and Daman and Diu. |
| <u>Southern Region:</u> | Andhra Pradesh, Karnataka, Kerala, Pondicherry, Tamil Nadu, Andeman and Nicobar Islands, and Lakshadweep |

Data for the 581 districts included in the study is available only for the end period, that is 2001-04. With exception of districts in Assam, consistent information on crop wise area and production for the districts of other states of the North-Eastern Region is also not available for the 1990-3 triennium. Similar data problem encountered for many new districts created between 1990-93 and 2001-04 period. Generating backward information for these newly created districts is neither feasible nor available from any published source. For the triennium ending 1990-93 comparable district wise information on area and production of crops and other related indicators is available for only 416 district units falling in the 20 major states in the country. Therefore in order to study the growth in agricultural production at the district level, we have merged the information on area and production for 105 newly created districts with their respective original district(s) from which these were separated out.

Methodology adopted in merging the newly created districts and formation of comparable units for trienniums ending 1990-93 and 2001-04, along with the state wise list of the included districts is provided in Appendix 2.

4. Agricultural Development: Spatial Pattern

Generally the level of agricultural development in a particular region is measured in terms of the output per unit of fixed factors of production. Land and workers employed in agricultural production are two such factors. The choice between these two generally depends upon their relative scarcity. In developing countries burdened with excess population pressure, land productivity is preferred as a measure of agricultural development. On the contrary, labour being scarce to land, labour productivity is preferable measure for development in developed countries. However for better insights, besides land productivity, labour productivity is also measured in developing countries as it broadly indicates how rewarding the agriculture is in a particular region. This is mainly due to close association of labour productivity as determinant of returns to the farmers, wages of agricultural workers and overall well-being of the peoples employed in the sector. Therefore, role of agricultural development in many important issues like over all well-being, poverty, deprivation and employment, and the requisite policy initiatives in these contexts, can be better examined from employing the labour productivity based information. For example, for concentrated policy initiatives to alleviate rural poverty in India under 'Rural Labour Employment Guarantee Programme' initiated during the 10th Five Year Plan in India, 150 most backward districts were identified by employing labour productivity of agricultural workers as one of the key indicators. However, land productivity provides more useful insights into the status of agriculture development and also helps to identify potentials and constraints on development and growth of agriculture. Both these indices of productivity are employed to measure the level of agricultural development across districts in the present study.

Land productivity in the present study is measured as value output of the all crops per hectare of the net sown area in the district. Net sown area is preferred over the gross cropped area as the later sometimes could lead to erroneous conclusions in the case if cropping pattern varies across districts. This is mainly because of variations in maturity period across different crops and even of its variation across different varieties of the same crop. Both the cropping patterns and crop varieties are known to vary considerably across districts in India because of varying agro-climatic conditions across regions in India. For example, perennial crops like

tea, rubber and coffee predominates the crop sector in many districts in the Southern and Eastern regions whereas foodgrain crops having 3-6 months as the maturity period predominates in majority of the districts in the Northern region. Similarly, many districts in West Bengal grow three crops of rice a year whereas only two crops predominates many highly irrigated districts in the North-western region. Similarly, even in the same environment, maturity period of rice varieties varies considerably.

Levels of agricultural development in a region can also be measured by employing Total or Multi Factor Productivity (TFP), which is the third measure of productivity. This measure is mainly used to compare the level and changes in production technology employed in a particular region. Though TFP and TFPG provides many useful insights into various dynamics of production, but at the same time it is too complex. Data employed to measure TFP, particularly the capital stock, is generally not available from published sources. Moreover, use of TFP is beyond the scope of the present study.

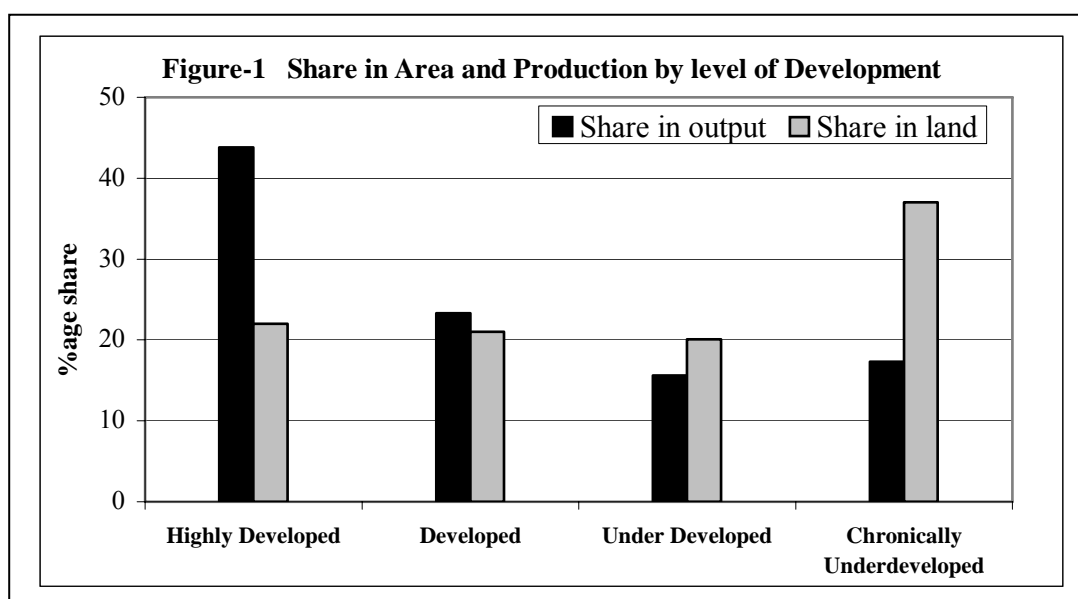
I. Land Productivity:

To study variations in level of development across districts, we first estimated the per hectare value output of net sown area for all the 581 districts during the triennium ending 2001-04. On the basis of their land productivity these districts were then ranked in descending order of their productivity (comprehensive ranking of districts along with other information is provided in Appendix-2 and 3). Rather than adopting any arbitrary cut off levels to differentiate districts by their level of development, we divided the districts so ranked into four quartiles. The top quartile of 145 districts has been categorised as the most developed, followed by second quartile of 145 developed districts. The third quartile has been labelled as the underdeveloped districts whereas the lowest quartile is categorised as the chronically underdeveloped districts.

Information on the average land productivity, share of respective quartile in land, labour and production is provided in Table-1 and Figure-1 indicates wide district level variations in level of agricultural development in India. It may be seen that the average land productivity (Rs. 41576) in the group of most developed districts is more than four fold of the average productivity (Rs. 9767) of the chronically underdeveloped districts. The difference between the top and the bottom quartiles is so wide that with about 40 per cent less area,

Table –1
Share of Districts in Production, land and Labour by Levels of Development, 2001-4

| Level of Development (by Land productivity) | Level of Productivity (Rs per Hectare) | Number of Districts | Per Cent share in Total | | |
|------------------------------------------------|-------------------------------------------|---------------------|------------------------------|-------------------------|----------------------------------|
| | | | Production (Crops output) | Land (Net Sown Area) | Labour (Agricultural Workers) |
| Highly Developed | 41576 | 145 | 43.8 | 22.0 | 23.8 |
| Developed | 23145 | 145 | 23.3 | 21.0 | 25.9 |
| Under Developed | 16159 | 145 | 15.6 | 20.0 | 22.5 |
| Chronically Underdeveloped | 9767 | 146 | 17.3 | 37.0 | 27.9 |
| Overall | 20845 | 581 | 100.0 | 100.0 | 100.0 |



the most developed top quartile of the districts contributed 255 per cent more to agricultural production compared with the chronically underdeveloped quartile of districts. The most developed districts contribute twice to agricultural production than their share in land area. On the contrary chronically underdeveloped group's share in production is half of their share in land area. Furthermore, even in case of the top three quartiles of the districts having almost equal share in land area and agricultural workers, their respective share in agricultural production declines substantially from 43.8 per cent for first to 23.3 for second and to 15.6 per cent for the third quartile of districts.

(i) Variations Across Regions

Spatial distribution of the districts across states and regions by their level of development detailed in Table-2 reveals interesting geographical pattern of agricultural development across regions and states in India. About a half (47.5 per cent) of the most developed districts in India are located in the Northern region alone. Another 27.6 per cent of the most developed are happens to be in the Southern region. Taken together, three fourth (75.2 per cent) of the most developed group of districts are from the northern and Southern regions. Only 5.5 per cent of the highly developed districts happen to be from the western-central region, which area wise is the biggest of all regions (Table-2a). Geographical location of the chronically under-developed districts is a mirror image of the location of the most developed districts in India. 62 per cent of the chronically under-developed districts are located in the Western-Central region whereas the North-Eastern, Northern, Southern and Eastern regions accounts for just 5, 10, 10 and 14 per cents respectively. Further clubbing the districts in the top two and bottom two quartiles reveals another interesting pattern. While, 38 per cent of the developed districts in India (in the top quartiles) are located in the Northern region, whereas Western-Central region accounts for 42 percent of the underdeveloped districts (in the bottom two quartiles) in India. This implies that the Northern and Western-Central regions are diagonally placed opposite on the scale of agriculture development in India.

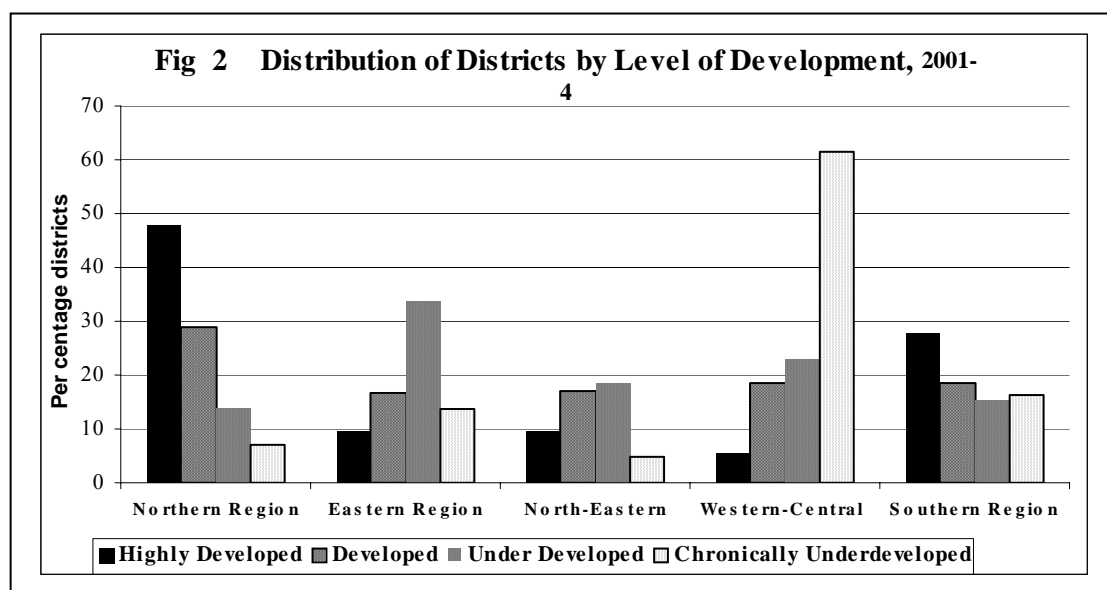


Table-2b Intra-State Distribution (%) of Districts by the Level of Land Productivity, 2001-04

| Sr No | Region / State | Distribution(%) of Districts by Level of Development | | | | All |
|-------|-------------------------------|------------------------------------------------------|-------------|-------------------|----------------------------|--------------|
| | | Highly-Developed | Developed | Under - Developed | Chronically-Underdeveloped | |
| | North- Western Region | | | | | |
| 1 | Haryana | 94.7 | 5.3 | 0.0 | 0.0 | 100.0 |
| 2 | Himachal Pradesh | 8.3 | 41.7 | 41.7 | 8.3 | 100.0 |
| 3 | Jammu & Kashmir | 0.0 | 14.3 | 36.7 | 50.0 | 100.0 |
| 4 | Punjab | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 5 | Uttar Pradesh | 42.9 | 47.1 | 5.7 | 4.3 | 100.0 |
| 6 | Uttaranchal | 23.1 | 7.7 | 46.1 | 23.1 | 100.0 |
| | Region | 47.5 | 29.0 | 13.8 | 9.7 | 100.0 |
| | | | | | | |
| | Eastern Region | | | | | |
| 7 | Bihar | 0.0 | 32.4 | 54.1 | 13.5 | 100.0 |
| 8 | Jharkhand | 0.0 | 9.1 | 54.5 | 36.4 | 100.0 |
| 9 | Orissa | 0.0 | 23.3 | 53.4 | 23.3 | 100.0 |
| 10 | West Bengal | 77.8 | 16.7 | 5.5 | 0.0 | 100.0 |
| | Region | 13.1 | 22.4 | 45.8 | 18.7 | 100.0 |
| | | | | | | |
| | North-Eastern Region | | | | | |
| 11 | Arunachal Pradesh | 7.7 | 23.1 | 38.5 | 30.7 | 100.0 |
| 12 | Assam | 43.5 | 34.8 | 21.7 | 0.0 | 100.0 |
| 13 | Manipur | 0.0 | 44.4 | 44.4 | 11.2 | 100.0 |
| 14 | Meghalaya | 14.3 | 57.2 | 28.5 | 0.0 | 100.0 |
| 15 | Mizoram | 0.0 | 0.0 | 83.3 | 16.7 | 100.0 |
| 16 | Nagaland | 0.0 | 14.3 | 71.4 | 14.3 | 100.0 |
| 17 | Sikkim | 0.0 | 75.0 | 25.0 | 0.0 | 100.0 |
| 18 | Tripura | 50.0 | 50.0 | 0.0 | 0.0 | 100.0 |
| | Region | 19.2 | 34.2 | 37.0 | 9.6 | 100.0 |
| | | | | | | |
| | Western-Central Region | | | | | |
| 19 | Chattisgarh | 0.0 | 0.0 | 6.3 | 93.7 | 100.0 |
| 20 | Goa | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 21 | Gujarat | 16.0 | 44.0 | 12.0 | 28.0 | 100.0 |
| 22 | Madhya Pradesh | 0.0 | 12.5 | 25.0 | 62.5 | 100.0 |
| 23 | Maharashtra | 6.1 | 9.1 | 27.2 | 57.6 | 100.0 |
| 24 | Rajasthan | 0.0 | 18.8 | 25.0 | 56.2 | 100.0 |
| 25 | Dadra & Nagar Haveli | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 |
| 26 | Daman & Diu | 0.0 | 100.0 | 0.0 | 0.0 | 100.0 |
| | Region | 5.0 | 17.1 | 20.9 | 57.0 | 100.0 |
| | | | | | | |
| | Southern-Region | | | | | |
| 27 | Andhra Pradesh | 27.3 | 36.4 | 27.3 | 9.0 | 100.0 |
| 28 | Karnataka | 3.7 | 25.9 | 22.2 | 48.2 | 100.0 |
| 29 | Kerala | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 30 | Pondicherry | 75.0 | 25.0 | 0.0 | 0.0 | 100.0 |
| 31 | Tamil Nadu | 51.7 | 34.5 | 13.8 | 0.0 | 100.0 |
| 32 | Andaman & Nicobar Island | 0.0 | 100.0 | 0.0 | 0.0 | 100.0 |
| 33 | Lakshadweep | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | Region | 40.8 | 27.6 | 16.3 | 15.3 | 100.0 |
| | | | | | | |
| | All India | 25.0 | 25.0 | 25.0 | 25.0 | 100.0 |

Like the inter-regional distribution of districts by the level of development, similar pattern is evident from the intra-regional distribution of districts across levels of

development. 48 per cent of the districts in the Northern region are agriculturally highly developed whereas only 5 per cent of the districts in the Western-Central qualify in this top highly developed category (Table-2 and Figure 2). Contrary to it, only 10 per cent of the Northern region districts fall in the chronically underdeveloped category whereas the proportion of these districts in the Western-central region is as high as 57 per cent. Only about one-sixth of the districts in the Eastern and Southern regions happen to be in the chronically underdeveloped category of districts. The most interesting and lesser known is the case of district level development in the North-eastern region. Comparatively, this region is at middle level of development with half of its districts fall in the developed and other half in the underdeveloped bottom two quartiles. Interestingly, only 9.6 per cent of its districts in this region fall in the bottom quartile of the chronically underdeveloped category. On the whole and comparatively, Western-central region seems to be synonymous with chronically underdevelopment whereas majority of the districts in the Northern and the Southern regions have reached a fairly high level of development.

Concentration of the most developed and chronically underdeveloped districts in specific regions, however, is a known phenomenon in Indian agriculture. This is evident from the information provided in Table-3 on state and region wise distribution of districts across levels of development during 1990-93. It is evident that even during 1990-93, 59 per cent the chronically under developed districts in India were located in the Western-central regions. Comparison of the distributions of districts across various levels of development during 1990-93 and 2001-04 is almost same except for the districts in the southern region. Comparatively many districts in this region slipped on all-India ranking. Probably it might be due to adverse weather conditions during the later period prevailing in this region. Dynamics of inter-regional pattern would be clearer by examining the distribution of districts across state.

The inter-regional variations notwithstanding, information detailed in Table-2 also indicate considerable intra-regional variations in levels of agricultural development in India. For example, all districts of Punjab fall in the top quartile of highly developed group of districts whereas 50 per cent of the districts in Jammu and Kashmir in the same region fall in the chronically under developed category. Similarly, all districts of Kerala are in most developed top quartile whereas almost half (46 per cent) of the districts in Karnataka, another state in the same Southern region, are in the least developed quartile of chronically under

developed category of districts. Same is more or less true about the Eastern region. Western-central region seems to be the exception in this context as most of the districts in almost all states in this region are in the bottom two categories of the under developed districts. Only very small, consisting on only two districts each, States/Union Territories of Goa, Dadra and Nagar Haveli, and Daman and Diu are exception to this pattern.

(ii) Variations Across States

Information presented in Table-2 brings out that the inter-regional variations in level of development are more severe across states in India. On the one extreme, we have the state of Punjab having all its districts in the top most developed quartile, whereas on the other is Chattisgarh with none of its districts figuring even in the top two quartiles of developed districts in India. Similarly, besides some single district Union Territories, there are 10 other states- namely, Bihar, Jammu & Kashmir, Jharkhand, Orissa, Madhya Pradesh, Manipur, Mizoram, Nagaland, Rajasthan and Sikkim- having none of their districts in the top most developed quartile of districts. On the contrary besides Punjab and some single district Union Territories, there we have 9 other states- namely Assam, Goa, Haryana, Kerala, Meghalaya, Pondicherry, Sikkim, Tripura, Tamil Nadu, and West Bengal, with none of their districts in the bottom quartile of the chronically underdeveloped category of districts.

Comparatively, besides Punjab, Goa, Haryana, and Kerala are other three states having all their districts attained a fairly reasonable level of development. Almost all their districts figure among top quartile of the most developed districts in India. These four states are followed by other six states, namely Assam, Pondicherry, Tamil Nadu, Tripura, Uttar Pradesh, and West Bengal having more than 80 per cent of their districts in the top two quartiles of developed districts. These states are located in all regions with only exception of the Western-central region. With only exception of very small state Goa, none of its major states having such a high proportion of its districts in top two most developed quartiles. In fact with exception of Gujarat having 60 per cent of its districts in the top two quartiles, all other state in this region have more than 80 per cent of their districts in the bottom two most underdeveloped category of districts in India. Besides these Western-central states, Jharkhand and Orissa are other two states in the Eastern region that also have about 80 per cent of their districts in the bottom two quartiles of the underdeveloped categories of districts in the country.

Whether or not the observed phenomenon of concentration of high developed and underdeveloped districts in some regions or state is due to the adverse weather conditions in some parts of the country? This is an obvious question as the drought conditions in many parts of the country during 2002 adversely affected agricultural production in many semi-arid regions having low proportion of their area under assured irrigation. We explored into the issue by grouping the districts in four quartiles based on the ranking the districts arranged in descending order of their productivity during triennium ending 1990-93. Available comparable district level information in this context is presented in Table-3. Comparison of the proportion of districts in different quartiles in various states during 1990-93 and 2001-04 reveals a mixed picture. Relatively, position of many districts in the states of Jammu and Kashmir, Orissa, Chattisgarh and Karnataka slipped down the productivity scale during 2001-04 compared with their earlier position during early nineties. The phenomenon may be due to adverse weather conditions hitting hard many regions in these states or might have resulted from comparatively slow technological changes in these states. Contrary to these states, relative position of districts in the states of Haryana, Jharkhand, West Bengal, Gujarat and Maharashtra improved on the productivity scale. However no significant change in the relative position of districts in the states of Himachal Pradesh, Punjab, Uttar Pradesh, Uttaranchal, Assam, Bihar, Madhya Pradesh, Rajasthan, Andhra Pradesh, Kerala and Tamil Nadu has occurred over the 1993-3 to 2001-4 period. It may be noted that many of these states, particularly Bihar, Rajasthan, and Tamil Nadu, have suffered from the worst drought conditions during 2002. This implies that the role of many factors, other than rainfall, were at work as determinants of dynamics of agricultural development at the district level during the post reform India.

Intra-regional analysis of the movement of districts across states reveals that most of the districts in plain region states, Punjab, Haryana, and Uttar Pradesh, in the Northern region, have attained quite a reasonable level of development, but most of the districts in the remaining three hill region states: Himachal Pradesh, Jammu and Kashmir, and Uttaranchal, are still ranking quite low on the productivity scale. In fact the structure of agriculture in these hill region states differs considerably from other states in the same region. Recent state level analysis of agricultural development in India, however brings out that the level of land productivity in these states is almost comparable with the other states (Singh, 2006).

Table- 3 (a) Percent Distribution of State- and Region- wise Districts by Level of Land Productivity, 2001-4

| Level of Development | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|----------------------------|-----------------|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| Highly Developed | 84 | 8 | 0 | 100 | 41 | 23 | 45 | 29 | 0 | 0 | 0 | 79 | 18 | 16 | 0 | 0 | 6 | 0 | 4 | 27 | 4 | 93 | 52 | 38 | 25 |
| Developed | 16 | 42 | 14 | 0 | 49 | 8 | 30 | 39 | 32 | 9 | 23 | 16 | 24 | 44 | 13 | 0 | 9 | 19 | 18 | 37 | 26 | 7 | 34 | 31 | 25 |
| Underdeveloped | 0 | 42 | 36 | 0 | 7 | 46 | 18 | 22 | 57 | 55 | 57 | 5 | 43 | 12 | 31 | 6 | 30 | 25 | 22 | 27 | 22 | 0 | 14 | 15 | 25 |
| Chronically Underdeveloped | 0 | 8 | 50 | 0 | 3 | 23 | 7 | 0 | 11 | 36 | 20 | 0 | 15 | 28 | 56 | 94 | 55 | 56 | 56 | 9 | 48 | 0 | 0 | 16 | 25 |
| All | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table 3(b) Percent Distribution of State- and Region- wise Districts by Level of Land Productivity, 1990-3

| Lelvels of Development | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|----------------------------|-----------------|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| Highly Developed | 69 | 8 | 36 | 100 | 34 | 30 | 43 | 22 | 3 | 0 | 23 | 47 | 18 | 16 | 0 | 0 | 3 | 0 | 3 | 27 | 16 | 100 | 62 | 48 | 25 |
| Developed | 31 | 34 | 43 | 0 | 49 | 10 | 37 | 52 | 20 | 0 | 18 | 47 | 29 | 16 | 8 | 0 | 10 | 10 | 10 | 41 | 32 | 0 | 33 | 29 | 25 |
| Underdeveloped | 0 | 50 | 21 | 0 | 9 | 50 | 15 | 26 | 73 | 0 | 47 | 6 | 37 | 32 | 29 | 43 | 10 | 40 | 28 | 18 | 26 | 0 | 5 | 13 | 25 |
| Chronically Underdeveloped | 0 | 8 | 0 | 0 | 8 | 10 | 5 | 0 | 4 | 100 | 12 | 0 | 16 | 37 | 63 | 57 | 76 | 50 | 59 | 14 | 26 | 0 | 0 | 10 | 25 |
| All | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

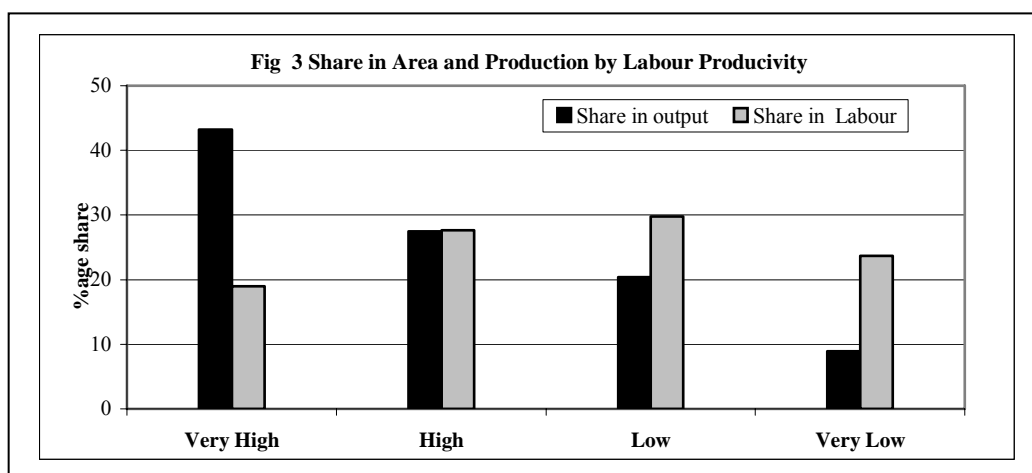
Therefore low level of agricultural development in many districts in these states may be due to partial coverage of some important crops in some districts. For example apple is known to predominate plantation in Shimla and Kinnaur districts of Himachal Pradesh and Srinagar district of Jammu and Kashmir. Consequently, findings on district level development in these three states need to be interpreted accordingly.

II. Labour Productivity:

Like land productivity, we have also ranked the districts in descending order of their labour productivity during the triennium ending 2001-04 (Appendix-5). The districts so ranked have been divided into four quartiles. Information on average labour productivity and share of each quartile in overall land, labour and production is presented in Table-4 and Figure-3. Like the land productivity, considerable variations between and across districts in different regions or states is evident in the case of variations in labour productivity. In the top most quartile of the most productive districts with 19.0 per cent of total workers contributes more than twice (43.2 per cent) of their share to agricultural production. On the contrary, the bottom quartile of the districts with 23.7 per cent of the total workers contributes just 8.9 per cent to total agricultural production. There are wide inter-quartile differences in the level of labour productivity. The average worker productivity (Rs. 27789) in the top most productive quartile is more than six times of the workers productivity (Rs. 4608) in the bottom quartile. This indicates prevalence of vast inter-district differences in the levels of labour productivity in Indian agriculture. As already mentioned, labour productivity is an indicator of the returns of workers employed in the agriculture sector. Very low level of labour productivity in a substantial number of districts in India indicates the poor plight of the population depending on agriculture in these districts. Information also suggests the existence of vast un-exploited potentials for modernisation of agriculture in many of these districts and also for improvement in plight of rural masses trapped in low level of development and poverty. Poverty alleviating impact of higher labour productivity is well known. Micro level empirical evidence based on about 60,000 rural households in India during 1990-2000 suggests that the probability of a poor household escaping poverty improves by one per cent with one per cent per annum increase in labour productivity of workers employed in agriculture sector where household happens to be located (Singh, 2005). That is, there is one to one relationship between labour productivity and incidence of rural poverty in rural India. The study also brings out a high concentration of mass poverty in many rural areas with very low level of

Table –4
Share of Districts in Production, land and Labour by Level of Development, 2001-4
 (Based on Labour Productivity)

| Level of Development (by Labour Productivity) | Level of Productivity (Rs per Agr worker) | Number of Districts | Per Cent share in Total | | |
|--------------------------------------------------|----------------------------------------------|---------------------|------------------------------|-------------------------|----------------------------------|
| | | | Production (Crops output) | Land (Net Sown Area) | Labour (Agricultural Workers) |
| Highly Developed | 27789 | 145 | 43.2 | 26.3 | 19.0 |
| Developed | 12192 | 145 | 27.5 | 28.9 | 27.5 |
| Under Developed | 8391 | 145 | 20.4 | 28.3 | 29.8 |
| Chronically Underdeveloped | 4608 | 146 | 8.9 | 16.5 | 23.7 |
| Overall | 12232 | 581 | 100.0 | 100.0 | 100.0 |

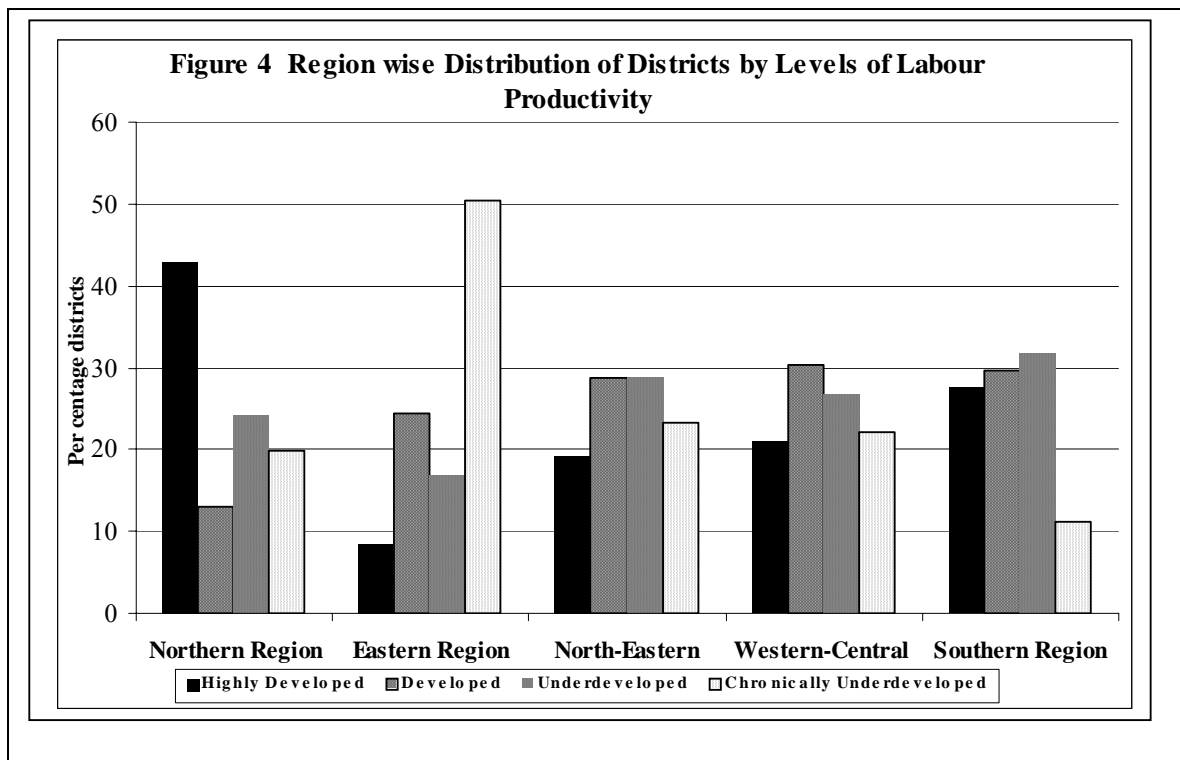


agricultural development. On the contrary rural poverty is virtually being completely wiped out in rural areas having very high level of agricultural development (Singh, 2005). The most cost effective and sustained solution to poverty, therefore, lies in improvement of productivity of agricultural workers in the identified chronically underdeveloped quartile districts in India. This however requires concentrated efforts to break the vicious circle of underdevelopment and poverty in many of these districts. The pre-requisite for designing and implementation of effective policies for development of agriculture and hence for upliftment of people living therein, requires the identification of area specific potentials and constraints in development of agriculture in these backward districts.

(i) Variations Across Regions

Distribution of districts across four broad regions and states by the levels of labour productivities presented in Tables-5a & b and Figure-4 shows slightly different geographical pattern than observed earlier in the case of distribution of districts on basis of their land productivity. Since labour productivity is measured as output per worker. The deviation in two pattern is but natural in case employment intensity per unit of land varies across regions

as a matter of pure arithmetic (Labour Productivity \approx Land Productivity \times Number of Workers per Hectare). This is so as the ratio of share of labour to that of land doubles from 0.7 to 1.4 as we move from the top quartile of most productive districts to the chronically underdeveloped bottom quartile of districts (Table 4). That is, a higher labour intensity of agricultural workers in the chronically under developed districts and vice versa. The most significant change in ranking of districts has occurred in the case of the most and the least densely populated Eastern and Western-central regions respectively. Compared with 62 per cent of the districts in the Western-central region falling in the chronically underdeveloped quartile on the basis of land productivity, only 24 per cent districts in this region fall in this category when districts are ranked on the basis of labour productivity. Similarly while only 14 per cent of the least developed category of districts located in the Eastern region on basis of land productivity whereas 37 per cent on the least developed districts happened to be located in this region while distributing them on the basis of labour productivity. Actually location of as many as 37 per cent of the least productive districts in the Eastern region alone, squares well with the well-known phenomenon of excessive population pressure, low rural wages, and widespread rural poverty and deprivation among the rural masses in the states falling in this region.



Besides the changes in the inter-regional distributions, the intra-regional distribution of districts across various level of development also underwent a significant change when compared on the basis of labour (rather than land) productivity. For example, proportion of districts in the least developed category doubled from 10 to 20 per cent in the Northern region when compared on the basis of labour productivity than on land productivity. The phenomenon is true for Eastern and Southern regions as well. However, the pattern is just opposite for the distribution of districts in the Western-central region. Compared with just 5 per cent districts figuring in the category of most productive on account of land productivity, now as many as 21 per cent of the districts in this region figures in the top quartile when distributed as per labour productivity. The proportion of districts in the least productive quartile declined substantially from 57 per cent based on land productivity to a 22 per cent on basis on labour productivity in the Western-central region. However, 61 per cent of the chronically under developed districts on basis of workers productivity are located either in the Eastern or Western-central region.

(ii) Variations Across States:

Like the labour productivity, pattern of district level development based on labour productivity varies considerably across states as well. On one hand we have states like Goa, Haryana, Kerala, and Punjab having all their districts in the most productive quartile of the districts. On the other side is Jharkhand having all its districts in the most underdeveloped quartile of districts. Besides Jharkhand, Jammu and Kashmir, Bihar and Himachal Pradesh are other states having as many as 64, 87 and 92 per cent of their districts respectively in the bottom quartile of the least productive districts. The most interesting is the case of North-eastern region states. With exception of Assam and Nagaland, more than three-fourth of the districts in remaining states falls in the bottom two lowest labour productivity quartiles of the districts. Like North-eastern region, Chattisgarh is also a special case having all its districts in figuring in bottom two quartiles of labour productivity.

Among the Union Territories, while Andaman and Nicobar Islands, Lakshadweep, Daman and Diu ranks quite high on the labour productivity whereas Dadra and Nagar Haveli ranks among the chronically low labour productivity quartile of the districts. Leaving aside the case of hill states of Himachal Pradesh, Jammu and Kashmir and Uttaranchal due to reason already explained, almost all districts in the states of Bihar and Jharkhand need special policy package to enhance the productivity of agricultural workers.

Table-5 a. Inter State Distribution of districts by the Level of Labour Productivity, 2001-04.

| Sr No | Region / State/UTs | Number of Districts | | | | | %age of Districts | | | | |
|-------------------------------|--------------------------|---------------------|------------|------------|------------|------------|-------------------|--------------|--------------|--------------|--------------|
| | | I | II | III | IV | All | I | II | III | IV | All |
| North- Western Region | | | | | | | | | | | |
| 1 | Haryana | 19 | 0 | 0 | 0 | 19 | 13.1 | 0.0 | 0.0 | 0.0 | 3.3 |
| 2 | Himachal Pradesh | 0 | 0 | 1 | 11 | 12 | 0.0 | 0.0 | 0.7 | 7.5 | 2.1 |
| 3 | Jammu & Kashmir | 0 | 2 | 3 | 9 | 14 | 0.0 | 1.4 | 2.1 | 6.2 | 2.4 |
| 4 | Punjab | 17 | 0 | 0 | 0 | 17 | 11.7 | 0.0 | 0.0 | 0.0 | 2.9 |
| 5 | Uttar Pradesh | 24 | 15 | 31 | 0 | 70 | 16.6 | 10.3 | 21.3 | 0.0 | 12.0 |
| 6 | Uttaranchal | 2 | 2 | 0 | 9 | 13 | 1.4 | 1.4 | 0.0 | 6.2 | 2.2 |
| | Region | 62 | 19 | 35 | 29 | 145 | 42.8 | 13.1 | 24.1 | 19.9 | 25.0 |
| Eastern Region | | | | | | | | | | | |
| 7 | Bihar | 0 | 1 | 4 | 32 | 37 | 0.0 | 0.7 | 2.8 | 21.9 | 6.4 |
| 8 | Jharkhand | 0 | 0 | 0 | 22 | 22 | 0.0 | 0.0 | 0.0 | 15.1 | 3.8 |
| 9 | Orissa | 0 | 17 | 13 | 0 | 30 | 0.0 | 11.8 | 8.9 | 0.0 | 5.2 |
| 10 | West Bengal | 9 | 8 | 1 | 0 | 18 | 6.2 | 5.4 | 0.7 | 0.0 | 3.1 |
| | Region | 9 | 26 | 18 | 54 | 107 | 6.2 | 17.9 | 12.4 | 37.0 | 18.5 |
| North-Eastern Region | | | | | | | | | | | |
| 11 | Arunachal Pradesh | 2 | 2 | 5 | 4 | 13 | 1.4 | 1.4 | 3.3 | 2.6 | 2.2 |
| 12 | Assam | 9 | 10 | 2 | 2 | 23 | 6.2 | 6.8 | 1.4 | 1.4 | 4.0 |
| 13 | Manipur | 0 | 2 | 3 | 4 | 9 | 0.0 | 1.4 | 2.1 | 2.7 | 1.5 |
| 14 | Meghalaya | 0 | 2 | 3 | 2 | 7 | 0.0 | 1.4 | 2.1 | 1.4 | 1.2 |
| 15 | Mizoram | 0 | 1 | 2 | 3 | 6 | 0.0 | 0.7 | 1.4 | 2.1 | 1.0 |
| 16 | Nagaland | 2 | 1 | 2 | 2 | 7 | 1.4 | 0.7 | 1.4 | 1.4 | 1.2 |
| 17 | Sikkim | 0 | 1 | 3 | 0 | 4 | 0.0 | 0.7 | 2.1 | 0.0 | 0.7 |
| 18 | Tripura | 1 | 2 | 1 | 0 | 4 | 0.7 | 1.4 | 0.7 | 0.0 | 0.7 |
| | Region | 14 | 21 | 21 | 17 | 73 | 9.7 | 14.5 | 14.5 | 11.6 | 12.6 |
| Western-Central Region | | | | | | | | | | | |
| 19 | Chattisgarh | 0 | 0 | 9 | 7 | 16 | 0.0 | 0.0 | 6.2 | 4.7 | 2.8 |
| 20 | Goa | 2 | 0 | 0 | 0 | 2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.3 |
| 21 | Gujarat | 13 | 7 | 2 | 3 | 25 | 9.0 | 4.8 | 1.4 | 2.1 | 4.3 |
| 22 | Madhya Pradesh | 9 | 21 | 7 | 11 | 48 | 6.2 | 14.5 | 4.8 | 7.5 | 8.3 |
| 23 | Maharashtra | 4 | 11 | 13 | 5 | 33 | 2.7 | 7.6 | 9.0 | 3.5 | 5.7 |
| 24 | Rajasthan | 5 | 8 | 11 | 8 | 32 | 3.4 | 5.5 | 7.6 | 5.5 | 5.5 |
| 25 | Dadra & Nagar Haveli | 0 | 0 | 0 | 1 | 1 | 0.0 | 0.0 | 0.0 | 0.7 | 0.2 |
| 26 | Daman & Diu | 0 | 1 | 0 | 0 | 1 | 0.0 | 0.7 | 0.0 | 0.0 | 0.2 |
| | Region | 33 | 48 | 42 | 35 | 158 | 22.7 | 33.1 | 29.0 | 24.0 | 26.2 |
| Southern-Region | | | | | | | | | | | |
| 27 | Andhra Pradesh | 2 | 10 | 9 | 1 | 22 | 1.4 | 6.9 | 6.2 | 0.7 | 3.7 |
| 28 | Karnataka | 3 | 9 | 9 | 6 | 27 | 2.0 | 6.2 | 6.2 | 4.1 | 4.5 |
| 29 | Kerala | 14 | 0 | 0 | 0 | 14 | 9.7 | 0.0 | 0.0 | 0.0 | 2.4 |
| 30 | Pondicherry | 1 | 2 | 1 | 0 | 4 | 0.7 | 1.4 | 0.7 | 0.0 | 0.7 |
| 31 | Tamil Nadu | 5 | 10 | 10 | 4 | 29 | 3.4 | 6.9 | 6.9 | 2.7 | 5.0 |
| 32 | Andaman & Nicobar Island | 1 | 0 | 0 | 0 | 1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.2 |
| 33 | Lakshadweep | 1 | 0 | 0 | 0 | 1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.2 |
| | Region | 27 | 31 | 29 | 11 | 98 | 18.6 | 21.4 | 20.0 | 7.5 | 16.7 |
| | All India | 145 | 145 | 145 | 146 | 581 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Note: Level of Development
I - Highly Developed
II - Developed
III - Underdeveloped
IV - Chronically Underdeveloped

Average Productivity
27789 (Rs per worker)
12192
8391
4608

Table-5b Intra-State Distribution (%) of Districts by the Levels of Labour Productivity, 2001-04

| Sr No | Region / State | Distribution(%) of Districts by Level of Development | | | | All |
|-------|-------------------------------|------------------------------------------------------|-------------|-------------------|----------------------------|--------------|
| | | Highly-Developed | Developed | Under - Developed | Chronically-Underdeveloped | |
| | North- Western Region | | | | | |
| 1 | Haryana | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 2 | Himachal Pradesh | 0.0 | 0.0 | 8.3 | 91.7 | 100.0 |
| 3 | Jammu & Kashmir | 0.0 | 14.3 | 21.4 | 64.3 | 100.0 |
| 4 | Punjab | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 5 | Uttar Pradesh | 34.3 | 21.4 | 44.3 | 0.0 | 100.0 |
| 6 | Uttaranchal | 15.4 | 15.4 | 0.0 | 6.2 | 100.0 |
| | Region | 42.8 | 13.1 | 24.1 | 20.0 | 100.0 |
| | | | | | | |
| | Eastern Region | | | | | |
| 7 | Bihar | 0.0 | 2.7 | 10.8 | 86.5 | 100.0 |
| 8 | Jharkhand | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 |
| 9 | Orissa | 0.0 | 56.7 | 43.3 | 0.0 | 100.0 |
| 10 | West Bengal | 50.0 | 44.4 | 5.6 | 0.0 | 100.0 |
| | Region | 8.4 | 24.3 | 16.8 | 50.5 | 100.0 |
| | | | | | | |
| | North-Eastern Region | | | | | |
| 11 | Arunachal Pradesh | 15.4 | 15.4 | 38.5 | 30.7 | 100.0 |
| 12 | Assam | 39.1 | 43.5 | 8.7 | 8.7 | 100.0 |
| 13 | Manipur | 0.0 | 22.2 | 33.3 | 44.5 | 100.0 |
| 14 | Meghalaya | 0.0 | 28.6 | 42.8 | 28.6 | 100.0 |
| 15 | Mizoram | 0.0 | 16.7 | 33.3 | 50.0 | 100.0 |
| 16 | Nagaland | 28.6 | 14.2 | 28.6 | 28.6 | 100.0 |
| 17 | Sikkim | 0.0 | 25.0 | 75.0 | 0.0 | 100.0 |
| 18 | Tripura | 25.0 | 50.0 | 25.0 | 0.0 | 100.0 |
| | Region | 19.2 | 28.8 | 28.8 | 23.2 | 100.0 |
| | | | | | | |
| | Western-Central Region | | | | | |
| 19 | Chattisgarh | 0.0 | 0.0 | 56.3 | 43.7 | 100.0 |
| 20 | Goa | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 21 | Gujarat | 52.0 | 28.0 | 8.0 | 12.0 | 100.0 |
| 22 | Madhya Pradesh | 18.8 | 43.8 | 14.6 | 22.8 | 100.0 |
| 23 | Maharashtra | 12.1 | 33.3 | 39.4 | 15.2 | 100.0 |
| 24 | Rajasthan | 15.6 | 25.0 | 34.4 | 25.0 | 100.0 |
| 25 | Dadra & Nagar Haveli | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 |
| 26 | Daman & Diu | 0.0 | 100.0 | 0.0 | 0.0 | 100.0 |
| | Region | 20.9 | 30.4 | 26.6 | 22.1 | 100.0 |
| | | | | | | |
| | Southern-Region | | | | | |
| 27 | Andhra Pradesh | 9.1 | 45.5 | 40.9 | 4.5 | 100.0 |
| 28 | Karnataka | 11.1 | 33.3 | 33.3 | 22.3 | 100.0 |
| 29 | Kerala | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 30 | Pondicherry | 25.0 | 50.0 | 25.0 | 0.0 | 100.0 |
| 31 | Tamil Nadu | 17.2 | 34.5 | 34.5 | 13.8 | 100.0 |
| 32 | Andaman & Nicobar Island | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 33 | Lakshadweep | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | Region | 27.6 | 29.6 | 31.6 | 11.2 | 100.0 |
| | | | | | | |
| | All India | 25.0 | 25.0 | 25.0 | 25.0 | 100.0 |

In fact 41 per cent of the chronically under developed districts of India are located in these two states. Besides these states, a substantial proportion of low labour /land productivity districts in the states of Andhra Pradesh, Chattisgarh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan and North-eastern Region also need special policy initiatives to rejuvenate agriculture in many of their chronically under developed districts.

5. Growth of Agricultural Production:

Growth of agricultural production has been estimated for the post liberalisation period, 1990-3 to 2003-4. For compatibility of information across districts we merged the information for the 105 newly created districts in the intervening period in their parental constituent districts. By dropping the main urban/metropolitan districts, we compiled the comparable information on area and production for the 45 crops sector for the 416 districts in the selected major states. These 416 districts were divided into the following four different categories on the basis of the compound annual rate of growth recorded in their value of agricultural production.

A. Rapidly growing districts

- (i) *Very Rapidly growing districts*: those recording annual growth exceeding 5 per Cent.
- (ii) *Rapidly growing districts*: those with annual growth rate ranges between 3.5 to 5.0 per.

B. Moderately Growing districts

- (iii) *Upper Moderately growing districts*: those with annual growth rate ranges between 2.5 to 3.5 per cent

C. Slow growing districts

- (iv) *Slow growing districts*: those with annual growth rate ranges between 1.5 to 2.5 per cent.

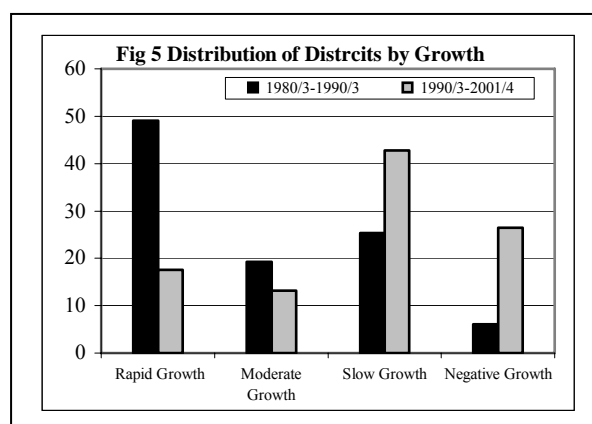
- (v) *Very Slow growing districts*: Those with annual growth rate ranges between 0.0 to 1.5 per cent

D. Negatively growing districts

- (vi) Those with annual growth rate ranges less than 0.0 (negative) per cent.

Distribution of the districts across different levels of growth is provided in Table-6 and Figure-5 (Details provided in Appendix-6). There is a big shift in districts across the growth categories during 1980s and 1990s. During the pre-reform period (1980-3 to 1990-3), 68.3 per cent of the districts recorded growth rate exceeding 2.5 per whereas 31.7 per cent

grew below 2.5 per cent per annum. The situation reversed during the post reform period. Only 30.8 per cent could grow at more than 2.5 per cent whereas 69.2 per cent recorded growth below 2.5 per cent per annum. The decline was mainly in the case of top two categories. Proportion of the rapidly growing districts decline to 17.6 per cent during 1990-93 to 2001-4 period whereas about half (49.1 per cent) of the districts in India were growing at rapid rate exceeding 3.5 per cent per annum. On the lower end, proportion of the very slow and negative



growing districts swelled to 50.7 per cent in the later period from 16.4 per cent during 1980/3-1990-3. In fact about a quarter (26.4 per cent) of the districts experienced decline in agricultural production due to negative growth during the post-reform period. In fact the post reform period witnessed more than four-fold rise in these negative growth districts from 6.1 per cent during 1980s to 26.4 per cent during 1990s. In fact post reform period witnessed serious deceleration in growth of crop production. After recording an average growth of 3.5 per cent during 1980s, it decline to less than half, 1.6 per cent per annum, during the post reform period. Most of the districts earlier growing on high growth path slipped downward on growth trajectory. In fact distribution of the districts over growth ranges during 1980s just reversed during 1990s. For instance proportion of districts in top to high growth ranges declined from 49.1 per cent during 1980s to 17.6 per cent during 1990s whereas that of bottom two very slow growing categories increased from 16.4 to 50.7 per cent.

Table-6 Distribution of Districts by Growth of Production and Growth in Output, Area, and Yield

| Growth of Production (% per year) | Number of districts | | Growth rate (% per year) | | | | | |
|--------------------------------------|----------------------|----------------------|--------------------------|------|-------|--------------------|------|-------|
| | 1980-3 to 1990-93 | 1990-3 to 2001-04 | 1980-83 to 1990-93 | | | 1990-93 to 2001-04 | | |
| | | | Output | Area | Yield | Output | Area | Yield |
| Very Rapid >= 5.0 | 21.7 | 10.6 | 6.3 | 1.3 | 4.9 | 6.8 | 2.5 | 4.3 |
| Rapid 3.5 – 5.0 | 27.4 | 7.0 | 4.3 | 0.8 | 3.6 | 3.9 | -0.2 | 4.1 |
| Moderate 2.5 – 3.5 | 19.2 | 13.2 | 3.0 | 0.4 | 2.6 | 3.1 | 1.0 | 2.1 |
| Slow 1.5 – 2.5 | 15.3 | 18.5 | 2.1 | 0.3 | 1.8 | 1.9 | 0.1 | 1.8 |
| Very Slow 0.0 – 1.5 | 10.3 | 24.3 | 0.8 | -0.1 | 0.9 | 0.1 | -0.7 | 0.9 |
| Negative < 0.0 | 6.1 | 26.4 | -0.9 | -0.4 | -0.5 | -0.5 | -0.5 | -0.1 |
| Overall | 100.0 | 100.0 | 3.5 | 0.6 | 2.9 | 1.6 | 0.1 | 1.5 |

Source: (i) Growth during 1980-3 to 1990-3 are based on data from Bhalla and Singh (2001).

(ii) Figures for 1990-3 to 2001-04 are estimates derived in the present study.

Table-7 Share of Districts in Output and Area by Levels of Growth, 1990-93 and 2001-04

| | Number of districts | Per cent share in overall | | | |
|-----------------------|---------------------|---------------------------|---------|---------|---------|
| | | Output | | Area | |
| | | 1990-93 | 2001-04 | 1990-93 | 2001-04 |
| Very Rapid ≥ 5.0 | 10.6 | 8.1 | 14.1 | 10.1 | 13.0 |
| Rapid 3.5 – 5.0 | 7.0 | 5.2 | 6.6 | 7.8 | 7.5 |
| Moderate 2.5 – 3.5 | 13.2 | 12.3 | 14.4 | 13.3 | 14.5 |
| Slow 1.5 – 2.5 | 18.5 | 17.4 | 17.9 | 19.4 | 19.4 |
| Very Slow 0.0 – 1.5 | 24.3 | 31.0 | 26.4 | 24.6 | 22.4 |
| Negative <0.0 | 26.4 | 26.0 | 20.6 | 24.9 | 23.3 |

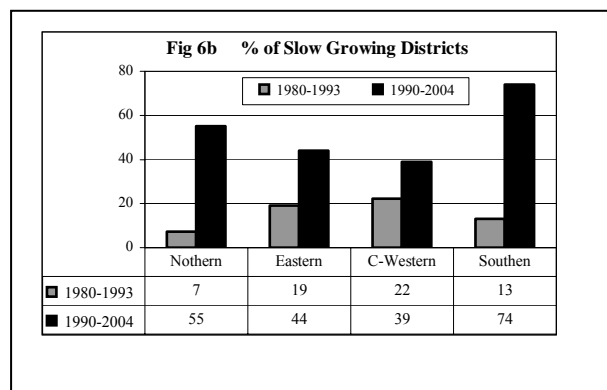
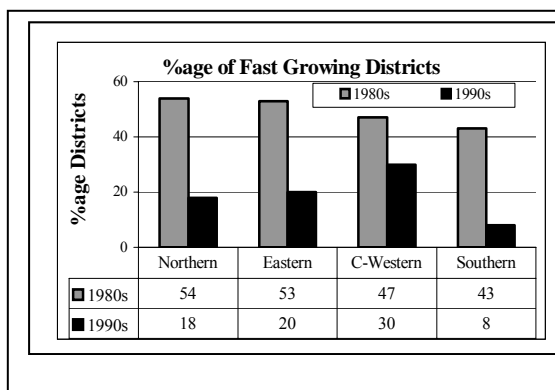
The decline in agricultural production occurred due to slowdown in growth of both area and yield during the reform period. However decline in production has mainly occurred due to deceleration in crop yield that has halved to 1.5 per cent during reform period from a high of 2.9 per cent per annum during the earlier period. The cropped area also declined by 0.5 per cent point from 0.5 to 0.1 per cent per annum during this period. While decline in yield could occur due to numerous causes such as drought /flood or adverse weather conditions, crop losses due to insect/pest attack, poor crop, untimely rains, etc. The decline in area under crops mainly occurs due to drought conditions. Hence serious deceleration in output during triennium 2001-04 might be due to drought conditions. This would be clearer on studying the geographical distribution of very low and negative growth districts across states. This is examined in the following section.

(i) Pattern Across Regions

Regional and state wise distribution of districts across various levels of growth presented in Table 8 brings out another interesting dynamics of agricultural growth in the post reform India. It may be seen that more than three-fourth (77 per cent) of the very rapidly growing (growth more than 5 per cent) districts are located either in the Eastern or Western-central regions. Similarly more than three-fourth (79 per cent) of the rapidly growing (growth 3.5-5.0 per cent) districts are located in these two regions. Moreover, more than half (55 per cent) of the very rapidly and 42 per cent of rapidly growing districts are located in located in the least developed Western-central region alone. Proportion of the rapidly growing districts in the Northern and Southern regions, which constitute agriculturally leading states, is very low- 13 and 10 per cent respectively. On other end of the spectrum, about half of the negative and equal proportion of the very slow (0.0-0.5 per cent) growing districts are located in the Northern and Southern regions. This suggests that slow down in agricultural growth

badly hit the districts in relatively developed northern and southern regions. The proportion of very slow and negatively growing districts in these two regions together doubled to 58 per cent during 1990s compared form 26.1 per cent during 1980-3 (Bhalla and Singh, 2001). On the contrary share of these two regions in the top two rapidly growing groups declined from 43.5 per cent during 1980s to 21.9 per cent during the post reform period (1990s).

Inter-regional comparison of districts on growth path reveals that relatively districts in the Southern region suffered the most in the Southern region during post reform period. In fact about half (46 per cent) its districts recorded negative growth and 28 per cent experienced very low growth (0.0-1.5 per cent) during the post 1990-93 period. This is also



borne out by the fact that compared with 74 per cent of the districts in this region growing at a very slow pace of less than 1.5 per cent per annum during 1990-93 to 2001-4 period. On the contrary, only 13.0 per cent of the districts in this region were in this slow growth category during 1980s (Figure 6b). The Northern region follows the Southern in this context. The proportion of very slow (growth less than 1.5 per cent) growing districts in this region swelled from just 7 per cent during 1980s to 55 per cent during 1990-93 to 2001-04 period. Comparison of the distribution of districts across growth categories during 1980s and 1990s also reveals that slow down also engulfed increased number of districts in the Eastern and Western-central regions also but the magnitude of affected districts is comparatively small as compared to other two region. Nevertheless even the proportion of districts in these regions in the lowest two categories also nearly doubled during the reform period as compared to the decade preceding the reform period.

Though the slow down also marked the Eastern and Western-central regions as well, yet the magnitude of the impact was comparatively low compared with the Northern and the

Table 8 (a) Distribution of Districts by Level of Growth Rate of Crop Production , 1990-93 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|----|----|----|----|----|-----|----------------|----|----|----|----|-----|------------------------|----|----|----|----|-----|-----------------|----|----|----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 1 | 0 | 1 | 0 | 4 | 0 | 6 | 1 | 1 | 4 | 1 | 3 | 10 | 7 | 1 | 0 | 9 | 7 | 24 | 2 | 0 | 2 | 0 | 4 | 44 |
| 3.5 – 5.0 | 2 | 0 | 1 | 0 | 1 | 0 | 4 | 2 | 3 | 3 | 0 | 3 | 11 | 1 | 1 | 0 | 7 | 3 | 12 | 1 | 1 | 0 | 0 | 2 | 29 |
| 2.5 - 3.5 | 4 | 0 | 0 | 1 | 11 | 0 | 16 | 4 | 4 | 3 | 1 | 7 | 19 | 1 | 5 | 0 | 4 | 5 | 15 | 1 | 1 | 1 | 1 | 4 | 54 |
| 1.5 - 2.5 | 4 | 1 | 2 | 2 | 18 | 0 | 27 | 2 | 7 | 3 | 2 | 2 | 20 | 1 | 15 | 5 | 3 | 1 | 25 | 2 | 3 | 5 | 0 | 10 | 82 |
| 0.0 - 1.5 | 4 | 4 | 3 | 10 | 20 | 3 | 44 | 8 | 5 | 0 | 0 | 0 | 13 | 6 | 7 | 1 | 3 | 6 | 23 | 8 | 3 | 5 | 5 | 21 | 101 |
| <0.0 | 1 | 7 | 7 | 0 | 0 | 6 | 21 | 6 | 9 | 0 | 13 | 2 | 30 | 3 | 9 | 1 | 3 | 8 | 24 | 8 | 11 | 1 | 15 | 35 | 108 |
| All | 16 | 12 | 14 | 13 | 54 | 9 | 118 | 23 | 29 | 13 | 17 | 17 | 99 | 19 | 38 | 7 | 29 | 30 | 123 | 22 | 19 | 14 | 21 | 76 | 416 |

Table 8 (b) Percent Distribution of Districts by Level of Growth Rate of Crop Production , 1990-93 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 6 | 0 | 7 | 0 | 7 | 0 | 5 | 4 | 4 | 31 | 6 | 18 | 10 | 37 | 3 | 0 | 31 | 23 | 20 | 9 | 0 | 14 | 0 | 5 | 11 |
| 3.5 – 5.0 | 13 | 0 | 7 | 0 | 2 | 0 | 13 | 10 | 10 | 23 | 6 | 17 | 10 | 5 | 3 | 0 | 24 | 10 | 10 | 5 | 5 | 0 | 0 | 3 | 7 |
| 2.5 - 3.5 | 25 | 0 | 0 | 8 | 20 | 0 | 14 | 14 | 14 | 23 | 0 | 41 | 19 | 5 | 13 | 0 | 14 | 17 | 12 | 5 | 5 | 7 | 5 | 5 | 12 |
| 1.5 - 2.5 | 25 | 8 | 14 | 15 | 33 | 0 | 23 | 24 | 24 | 23 | 12 | 12 | 20 | 5 | 39 | 72 | 10 | 3 | 20 | 9 | 16 | 36 | 0 | 13 | 20 |
| 0.0 - 1.5 | 25 | 33 | 22 | 77 | 37 | 33 | 37 | 17 | 17 | 0 | 0 | 0 | 13 | 32 | 18 | 14 | 11 | 20 | 19 | 36 | 16 | 36 | 24 | 28 | 24 |
| <0.0 | 6 | 59 | 50 | 0 | 0 | 67 | 18 | 31 | 31 | 0 | 76 | 12 | 28 | 16 | 24 | 14 | 10 | 27 | 20 | 36 | 58 | 7 | 71 | 46 | 26 |
| All | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table 8 (c) Percent Distribution of Districts by Level of Growth Rate of Crop Production , 1990-93 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|----|----|----|----|----|-----|----------------|----|----|----|----|-----|------------------------|----|----|----|----|-----|-----------------|----|----|----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 2 | 0 | 2 | 0 | 9 | 0 | 13 | 2 | 2 | 9 | 2 | 7 | 22 | 16 | 2 | 0 | 21 | 16 | 55 | 5 | 0 | 5 | 0 | 10 | 100 |
| 3.5 – 5.0 | 7 | 0 | 3 | 0 | 3 | 0 | 13 | 7 | 10 | 10 | 0 | 10 | 37 | 3 | 3 | 0 | 24 | 10 | 42 | 3 | 3 | 0 | 0 | 8 | 100 |
| 2.5 - 3.5 | 7 | 0 | 0 | 2 | 20 | 0 | 29 | 4 | 8 | 6 | 2 | 13 | 36 | 2 | 9 | 0 | 7 | 9 | 27 | 2 | 2 | 2 | 2 | 8 | 100 |
| 1.5 - 2.5 | 5 | 1 | 3 | 3 | 23 | 0 | 35 | 3 | 9 | 4 | 3 | 3 | 21 | 1 | 19 | 6 | 4 | 3 | 31 | 3 | 4 | 6 | 0 | 13 | 100 |
| 0.0 - 1.5 | 4 | 4 | 3 | 10 | 19 | 3 | 44 | 8 | 5 | 0 | 0 | 0 | 13 | 6 | 7 | 1 | 3 | 1 | 23 | 8 | 3 | 5 | 5 | 20 | 100 |
| <0.0 | 1 | 6 | 6 | 0 | 0 | 6 | 19 | 6 | 8 | 0 | 12 | 2 | 27 | 3 | 8 | 1 | 3 | 6 | 22 | 7 | 10 | 1 | 14 | 32 | 100 |
| All | 4 | 3 | 3 | 3 | 13 | 2 | 28 | 46 | 7 | 3 | 4 | 4 | 24 | 5 | 9 | 2 | 7 | 7 | 30 | 5 | 5 | 3 | 5 | 18 | 100 |

Southern regions. The proportion of the fast growing districts in these regions also reduced but the decline is small, specifically in the Western-central region. The decline in this region is 17 per cent point as compared with 35 per cent points in the Northern region. Similarly proportion of slow growing districts in this region though increased but again the magnitude was small compared with other regions. The proportion of rapidly growing districts in the Eastern region also declined sharply from 53 per cent in 1980s to 20 during 1990s but the rise in the magnitude of slow growing districts is low comparison with the worst hit Southern and Northern regions. On the whole, the slow down in the Indian agriculture worst hit the Southern region, followed by the Northern, Eastern and the Western-central regions in that order. Whether or not the states within each region follow the pattern described by their respective regions is examined in the following sub-section.

(ii) Pattern Across States

Distribution of districts in different states across various growth categories is detailed in Table-4 and Figure-7. Though half of the districts in India have recorded very slow growth falling short of 1.5 per cent per annum, but no unique pattern is discernable across the states or even across states within a same region. Besides the three hill states of Himachal Pradesh, Jammu and Kashmir, and Uttarakhand, Punjab, Orissa, Karnataka and Tamil Nadu are the other states having absolute majority of their districts performing very poorly (growth less than 1.5 per cent) during the post reform period. Even among these states, Orissa and Tamil Nadu are the special cases having respectively 76 and 71 per cent of their districts recording negative growth during this period. Very poor performance of these very badly growing states is contrary to their growth record during 1980s. For instance, compared with exception of one, all other districts in Tamil Nadu recorded growth exceeding 1.5 per cent per annum during the decade preceding reforms (1980s) (Bhalla and Singh, 2001). However, all bearing one district grew at less than 1.5 per cent during the post reform period (1990-93 to 2001-04). It is true for Punjab as well, another very poor agricultural performing state during the post-reform period. Agricultural production in all districts of Punjab grew at more than 2.5 per cent during 1980s whereas all recorded growth falling short of 2.5 per cent during 1990-93 to 2001-04. Apart from Punjab and Tamil Nadu, Andhra Pradesh and Karnataka are the other states having majority of their districts slipped to a very low level of growth during 1990s. In both these states, proportion of districts in the slow growing ranges (growth less than 1.5 per cent per annum) swelled to about 73 per cent during 1990s from 11/12 per cent during 1980s

Figure -7a

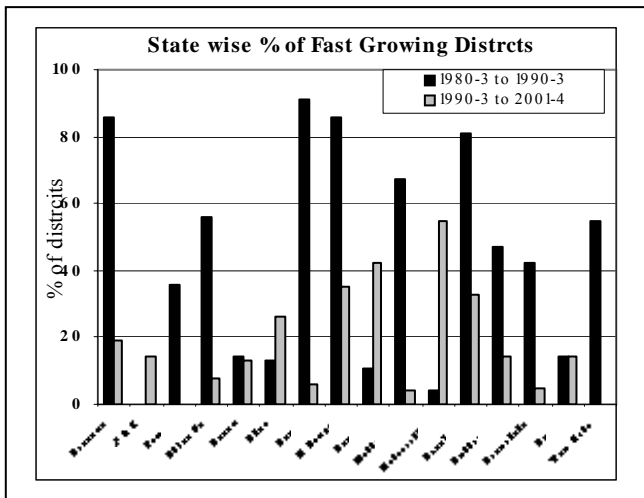
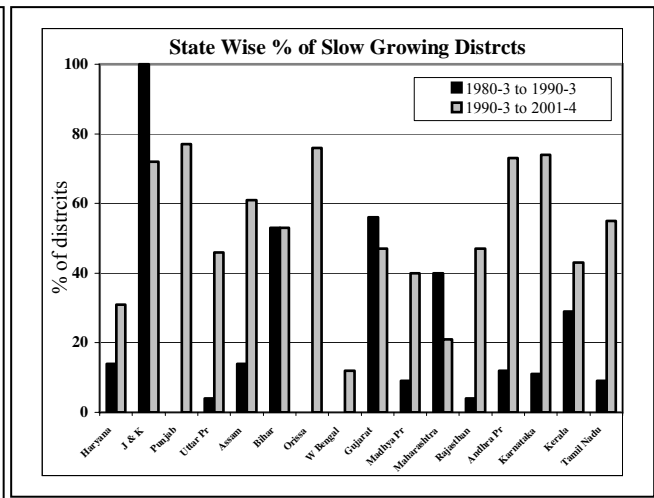


Figure -7b



Contrary to the serious set back suffered by majority of the districts in these four states, many districts in some other states graduated on growth path. Notable is the case of districts in Maharashtra state. Bearing one, none of it's district appeared in the highest two levels of growth during 1980s, whereas more than half (55 per cent) of its districts during 1990s figured in top two rapidly growing ranges of growth exceeding 3.5 per cent per annum. Besides Maharashtra, Gujarat is another state having many of its districts improved on growth trajectory during 1990s. There has been a four fold increase in the proportion of districts in highest three levels of growth exceeding annual growth of 2.5 per cent, from just 11 per cent during 1980s to 47 per cent during 1990s. On the other end, proportion of the very slow or negatively growing districts show marginal decline from 56 during 1980s to 47 percent during 1990s. Like Gujarat, the proportion of the rapidly growing districts in Bihar (including Jharkhand) also doubled from 13 during 1980s to 26 per cent during 1990s, though proportion of very slow (growth less than 1.5 per cent) growing districts remained at 53 per cent both during 1980s and 1990s.

(iii) Intra-Regional Pattern

Among the regions, Northern region stands alone so far the dynamics of growth during the post reform period is concerned. Unlike other three regions, proportion of districts in all of its states slipped down on the growth path. Proportion of the districts in the top two rapidly growing ranges declined substantially whereas that in the bottom two very slow and negative growth ranges swelled uniformly in all states in this region. Contrary to this region, states in

the Eastern region present a mixed picture. Most of the districts in Orissa and West Bengal suffered serious reverses, proportion of districts in Bihar (un-divided) state doubled though proportion in the least two ranges remained the same. While almost all districts (91 per cent) in Orissa were growing at growth exceeding 3.5 per cent during 1980s whereas 76 per cent of its districts were found to record very poor growth of less than 1.5 per cent per annum during 1990s. Serious deceleration to growth also marked in districts of West Bengal in this region. The proportion of the district in the top two fast growing categories in Assam, another state in this region, though remained same, but proportion in the bottom two ranges increased rapidly from 14 in 1980s to 61 per cent in 1990s. On the whole, West Bengal, though it suffered reverses during 1990s but stands unique in this regions, as almost one-third (35 per cent) of its districts still managed to grow rapidly with growth exceeding 3.5 per cent per annum.

Likewise the Eastern region, no unique pattern in distribution of districts is discernible in states of the Western-central region. While about half of the districts in Maharashtra and Gujarat recorded growth exceeding 3.5 per cent per annum during 1990s whereas none of the districts in Chattisgarh and only 6 per cent of the districts in Madhya Pradesh could manage to grow at this pace. On the other end, proportion of the slow growing districts with growth falling short of 1.5 per cent per annum are least in Chattisgarh and Maharashtra states. Overtime, while proportion of the rapidly growing districts declined whereas those in the least two growth ranges increased substantially in the Rajasthan and Madhya Pradesh (un-divided) states. Just opposite is the pattern of movement of districts in the other two states- Gujarat and Maharashtra- in this region.

The pattern of growth in the Southern regions comes closer to the Northern region, as districts in all states in this region suffered serious setbacks and slipped down the growth trajectory. Kerala is the only exception in this context. With exception of marginal increase in the proportion of districts in the bottom two categories from 29 to 43 per cent, districts in this state presents a consistent pattern of growth during 1980s and 1990s.

6. Sources of Growth

Various sources of growth in the crop production mainly operate through two channels. While one set of factors affects production through growth and use of area under various crops. This constitutes factors like changes in area under cultivation (Net Sown Area), climatic conditions like rainfall, drought, floods, expansion of area under assured

irrigation, cropping intensity, crop composition, and diversion of cultivable land for non-agricultural purposes like rapid urbanisation and industrial uses. The other set of factors affect production through changes in productivity or yield of land resources. This includes the factors like technological changes embodied in factors of production like seeds, fertilizers, pesticides and machinery, cultural practices, technical efficiency of the farmers, quality/fertility of soil, and climatic conditions of the area. Therefore to identify the sources of growth during the post reform period, it would be worthwhile to examine the growth in gross cropped area and crop yield across districts in India. The following sub-sections are devoted to examine the growths of gross cropped area and yield to examine the extent of their contribution to overall changes in agricultural growth studied in the preceding section.

(i) Growth of Cropped Area:

Information detailed in Table-9 presents the state and region wise distribution of districts in various ranges of the growth of gross cropped areas during the 1990-93 to 2001-04. It may be seen the half (51 per cent) of the districts during this period experienced decline in gross cropped area over this period. Gross cropped area in another 40 per cent of the districts experienced a marginal growth at less than 1.5 per cent per annum. Taken together, 91 per cent of the districts have either recorded decline or marginal increase in the gross cropped area during the 1990-93 to 2001-04 period. Though the proportion of the districts in these two low growth categories was roughly same during 1980-3 to 1990-3 period as well but the proportion of the negative growth in GCA was much smaller (Bhalla and Singh, 2001). Compared with the 23.5 per cent of the districts recording negative growth in GCA during 1980s, their proportion doubled to 51 per cent during 1990-3 to 2001-04 period. The proportion of districts in the slow GCA growth category declined from 64 per cent during 1980s to 40 per cent during 1990s. Consequently, the observed serious slow down of output growth in half of the districts in India during the recent past (1990s) seems to be partly due to increasing proportion of the districts experiencing decline in their cropped area (GCA). The phenomenon might be associated with the severe drought condition prevailing in major part of the country during 2002.

Across the regions, decline in GCA marked more seriously in the Southern region. Gross cropped area in as many as three-fourth of the districts falling in this region declined during 1990s. The Eastern region followed the Southern region with 64 per cent of its districts recording negative growth of GCA during this period. The decline in gross

Table 9 (a) Distribution of Districts by Growth of Gross Cropped Area , 1990-3 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|----|----|----|----|----|-----|----------------|----|----|----|----|-----|------------------------|----|----|----|----|-----|-----------------|----|----|----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3.5 – 5.0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2.5 - 3.5 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 1 | 0 | 0 | 3 | 4 | 0 | 0 | 1 | 0 | 1 | 9 |
| 1.5 - 2.5 | 2 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 1 | 1 | 0 | 4 | 6 | 0 | 4 | 0 | 3 | 2 | 9 | 0 | 0 | 1 | 2 | 3 | 21 |
| 0.0 - 1.5 | 12 | 4 | 10 | 11 | 30 | 1 | 68 | 0 | 12 | 1 | 1 | 9 | 23 | 11 | 24 | 1 | 14 | 9 | 59 | 5 | 5 | 2 | 3 | 15 | 165 |
| <0.0 | 2 | 8 | 4 | 2 | 20 | 8 | 44 | 23 | 15 | 10 | 13 | 2 | 63 | 7 | 8 | 6 | 10 | 15 | 46 | 17 | 14 | 10 | 16 | 57 | 210 |
| All | 16 | 12 | 14 | 13 | 54 | 9 | 118 | 23 | 29 | 13 | 17 | 17 | 99 | 19 | 38 | 7 | 29 | 30 | 123 | 22 | 19 | 14 | 21 | 76 | 416 |

Table 9 (b) Percent Distribution of Districts by Growth of Gross Cropped Area , 1990-3 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 2 | 5 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3.5 – 5.0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 3 | 0 | 6 | 0 | 2 | 0 | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2.5 - 3.5 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 8 | 6 | 6 | 3 | 0 | 3 | 0 | 0 | 10 | 3 | 0 | 0 | 7 | 0 | 1 | 2 |
| 1.5 - 2.5 | 12 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 3 | 8 | 0 | 23 | 6 | 0 | 10 | 0 | 10 | 7 | 7 | 0 | 0 | 7 | 10 | 4 | 5 |
| 0.0 - 1.5 | 75 | 33 | 71 | 85 | 55 | 11 | 58 | 0 | 42 | 8 | 6 | 53 | 24 | 58 | 63 | 14 | 49 | 30 | 48 | 23 | 26 | 14 | 14 | 20 | 40 |
| <0.0 | 13 | 67 | 29 | 15 | 37 | 89 | 37 | 100 | 52 | 76 | 76 | 12 | 64 | 37 | 21 | 86 | 35 | 50 | 38 | 77 | 74 | 72 | 76 | 75 | 51 |
| All | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table 9 (c) Percent Distribution of Districts by Growth of Gross Cropped Area , 1990-3 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|----|----|----|----|----|-----|----------------|----|----|----|----|-----|------------------------|----|----|----|----|-----|-----------------|----|----|----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 40 | 20 | 0 | 0 | 20 | 20 | 60 | 0 | 0 | 0 | 0 | 0 | 100 |
| 3.5 – 5.0 | 0 | 0 | 0 | 0 | 33 | 0 | 33 | 0 | 16 | 0 | 17 | 0 | 33 | 0 | 17 | 0 | 17 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 100 |
| 2.5 - 3.5 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 0 | 0 | 11 | 11 | 11 | 33 | 0 | 11 | 0 | 0 | 33 | 45 | 0 | 0 | 11 | 0 | 11 | 100 |
| 1.5 - 2.5 | 10 | 0 | 0 | 0 | 5 | 0 | 15 | 0 | 5 | 5 | 0 | 19 | 29 | 0 | 19 | 0 | 14 | 10 | 42 | 0 | 0 | 5 | 10 | 14 | 100 |
| 0.0 - 1.5 | 7 | 6 | 6 | 7 | 18 | 1 | 43 | 0 | 7 | 1 | 1 | 5 | 13 | 7 | 14 | 1 | 8 | 6 | 35 | 3 | 3 | 1 | 2 | 9 | 100 |
| <0.0 | 1 | 2 | 2 | 1 | 9 | 4 | 19 | 11 | 7 | 5 | 6 | 1 | 30 | 3 | 4 | 3 | 5 | 7 | 22 | 8 | 7 | 5 | 7 | 27 | 100 |
| All | 4 | 3 | 3 | 3 | 13 | 2 | 28 | 5 | 7 | 3 | 4 | 4 | 24 | 5 | 9 | 2 | 7 | 7 | 30 | 5 | 5 | 3 | 5 | 18 | 100 |

cropped area however affected comparatively smaller number (37 per cent) of districts in the Northern and Western-central regions. Therefore, reverses to agricultural production due to adverse weather conditions seems to have comparatively hit hard the Southern and Eastern region during TE 2001-04.

Comparison of the changes in the growth of GCA across states reveals that with only exception of the states in Southern regions that has been equally affected by the decline in GCA, no unique pattern across states within each region is discernable. For instance, compared with 15 per cent of the districts in Punjab, 89 per cent of the districts in Uttaranchal in Northern region have experienced decline in GCA during 1990s. Similarly, in the Eastern region, compared with 100 per cent districts in Assam, and 76 per cent of the districts in Jharkhand and Orissa states, only 12 per cent of the districts in West Bengal recorded negative growth of GCA during 1990s. On the whole, factors responsible for decline in the area under crops in three-fourth of the districts in 10 of the 20 states, namely Uttaranchal, Assam, Jharkhand, Orissa, Chattisgarh, Andhra Pradesh, Karnataka, Kerala, and Tamil Nadu seem to be responsible for poor growth performance of the districts falling in these states. On the other hand two of the Northern states-Haryana and Punjab- along with West Bengal have been least affected by such adverse conditions.

The decline in cropped area during the triennium 2001-04 is mainly due to drought conditions prevailing in majority of the districts during 2002. Information on state wise proportion of drought affected districts, proportion of area under irrigation and state wise proportion of districts experiencing negative growth in cropped area provided in Appendix - 5 suggests a close relationship between decline in area, drought and irrigation. The Pearson coefficient of correlation between irrigation and decline in area is -0.57. This suggests that the drought made least impact on agricultural production in high irrigated area. Very low proportion of districts experiencing decline in area in high irrigation states like Punjab and Haryana is mainly due to the drought insulating impact of irrigation. Furthermore, the Pearson Coefficient of correlation between proportion of drought affected districts and proportion of districts where area under crops declined is 0.45. This however suggests that drought alone is not responsible for decline in area under crops during triennium ending 2001-04. Many other factors also seem to be at work for decline in cropped area in many states. For instance, while all districts of Orissa were declared drought affected but area under crops declined in 13 of the 17 districts whereas in remaining 3 it actually expanded.

Similarly, contrary to the drought in most part of the country, almost whole of Assam (22 of the 24 districts) and major part of Bihar (24 of the 38 districts) were under floods. Therefore decline gross cropped area is mainly due to serious flood situation prevailing in these two states during 2002. In many other districts, specifically industrially fast growing states, decline might be due to diversion of agriculture land for industrial and urbanisation uses. Similarly, in many other districts, decline in area might be due to diversification of cropping pattern from seasonal to perennial crops. This might be the case in many districts falling in the Southern India. Exploration into role and contribution of these factors, however, is beyond scope of the present study.

Though decline in area seems to be a major factor behind poor performance of a substantial number of districts, yet some factors other than drought might also be at work resulting in poor performance by a substantial number of districts during the post reform India. This is borne by the fact that though 72 per cent of the districts in Kerala recorded negative growth in area under crops yet only 7 per cent experienced negative output growth during 1990s. Similarly, 76 per cent districts in Jharkhand state falls in negative area growth category but all its districts recorded growth of output exceeding 2.5 per cent per annum. To further explore into the sources, growth in crop yield across districts is examined in the following sub-section.

(ii) Growth of Crop Yield

Distribution of districts by the ranges of growth in crop yield provided in Table-10 reveals that compared with observed 51 per cent of the all India districts experiencing negative growth in GCA, only 20 per cent of them recorded negative growth in crop yields. In fact, distribution of the districts across various growth categories on the basis of yield and growth (Table -8) follow almost similar patterns. For example, compared with 18 per cent of the districts in the top two growth ranges on the basis of output, 12 per cent of the districts falls in these top categories on the basis of crop yield. Similarly 51-54 per cent of the districts figures in the bottom two growth categories both on the basis of crop output and crop yield. However on the basis of GCA growth, 91 per cent falls in these two categories. This implies that though expansion or contraction of area under crops does matter, but the growth or decline in crop yield seems to matter more in acceleration or deceleration in growth of crop output in Indian agriculture. For example, GCA in 76 per cent of the Jharkhand districts declined but all districts in the state grew at more than 1.5 per cent per annum during 1990s

Table 10 (a) Distribution of Districts by Growth of Yield , 1990-3 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|----|----|----|----|----|-----|----------------|----|----|----|----|-----|------------------------|----|----|----|----|-----|-----------------|----|----|----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 1 | 7 | 5 | 0 | 0 | 6 | 5 | 16 | 1 | 0 | 0 | 0 | 1 | 25 |
| 3.5 – 5.0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 4 | 0 | 1 | 8 | 2 | 0 | 0 | 5 | 2 | 9 | 3 | 0 | 1 | 0 | 4 | 23 |
| 2.5 - 3.5 | 3 | 0 | 1 | 0 | 7 | 0 | 11 | 4 | 10 | 4 | 1 | 5 | 24 | 1 | 0 | 0 | 6 | 7 | 14 | 3 | 3 | 3 | 2 | 11 | 60 |
| 1.5 - 2.5 | 2 | 1 | 1 | 3 | 17 | 0 | 24 | 2 | 6 | 0 | 1 | 3 | 12 | 3 | 13 | 6 | 4 | 4 | 30 | 3 | 3 | 6 | 5 | 17 | 83 |
| 0.0 - 1.5 | 10 | 8 | 3 | 10 | 26 | 4 | 61 | 8 | 10 | 0 | 2 | 6 | 26 | 4 | 16 | 0 | 5 | 7 | 32 | 8 | 4 | 4 | 5 | 21 | 140 |
| <0.0 | 0 | 3 | 8 | 0 | 3 | 5 | 19 | 6 | 2 | 0 | 13 | 1 | 22 | 4 | 9 | 1 | 3 | 5 | 22 | 4 | 9 | 0 | 9 | 22 | 85 |
| All | 16 | 12 | 14 | 13 | 54 | 9 | 118 | 23 | 29 | 13 | 17 | 17 | 99 | 19 | 38 | 7 | 29 | 30 | 123 | 22 | 19 | 14 | 21 | 76 | 416 |

Table 10 (b) Percent Distribution of Districts by Growth of Yield , 1990-3 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All | |
|-----------------------------|-----------------|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | | |
| >5.0 | 0 | 0 | 7 | 0 | 0 | 0 | 1 | 4 | 0 | 38 | 0 | 6 | 7 | 26 | 0 | 0 | 21 | 17 | 13 | 4 | 0 | 0 | 0 | 1 | 6 | |
| 3.5 – 5.0 | 6 | 0 | 0 | 0 | 2 | 0 | 2 | 9 | 4 | 32 | 0 | 6 | 8 | 11 | 0 | 0 | 17 | 7 | 7 | 14 | 0 | 7 | 0 | 5 | 6 | |
| 2.5 - 3.5 | 19 | 0 | 7 | 0 | 13 | 0 | 9 | 17 | 34 | 32 | 6 | 29 | 24 | 5 | 0 | 0 | 21 | 23 | 11 | 14 | 16 | 21 | 9 | 14 | 14 | |
| 1.5 - 2.5 | 12 | 8 | 7 | 23 | 32 | 0 | 20 | 9 | 21 | 0 | 6 | 18 | 12 | 16 | 34 | 86 | 14 | 13 | 24 | 14 | 16 | 43 | 24 | 22 | 20 | |
| 0.0 - 1.5 | 63 | 67 | 22 | 77 | 48 | 44 | 52 | 35 | 34 | 0 | 12 | 35 | 26 | 21 | 42 | 0 | 17 | 23 | 26 | 36 | 21 | 29 | 24 | 28 | 34 | |
| <0.0 | 0 | 25 | 57 | 0 | 5 | 56 | 16 | 26 | 7 | 0 | 76 | 6 | 23 | 21 | 24 | 14 | 10 | 17 | 18 | 18 | 47 | 0 | 43 | 29 | 20 | |
| All | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table 10 (c) Percent Distribution of Districts by Levels of Growth of Yield , 1990-3 to 2001-4

| Growth Rate (% per year) | Northern Region | | | | | | | Eastern Region | | | | | | Western-Central Region | | | | | | Southern Region | | | | | All |
|-----------------------------|-----------------|----|----|----|----|----|-----|----------------|----|----|----|----|-----|------------------------|----|----|----|----|-----|-----------------|----|----|----|-----|-----|
| | HR | HP | JK | PB | UP | Ur | All | AS | BH | JH | OR | WB | All | GJ | MP | CH | MH | RJ | All | AP | KT | KL | TN | All | |
| >5.0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 4 | 0 | 20 | 0 | 4 | 28 | 20 | 0 | 0 | 24 | 20 | 64 | 4 | 0 | 0 | 0 | 4 | 100 |
| 3.5 – 5.0 | 4 | 0 | 0 | 0 | 4 | 0 | 9 | 9 | 4 | 17 | 0 | 4 | 34 | 9 | 0 | 0 | 22 | 9 | 40 | 13 | 0 | 4 | 0 | 17 | 100 |
| 2.5 - 3.5 | 5 | 0 | 2 | 0 | 12 | 0 | 19 | 7 | 17 | 7 | 2 | 8 | 39 | 2 | 0 | 0 | 10 | 12 | 24 | 5 | 5 | 5 | 3 | 18 | 100 |
| 1.5 - 2.5 | 2 | 1 | 1 | 4 | 20 | 0 | 28 | 2 | 7 | 0 | 1 | 4 | 14 | 3 | 16 | 7 | 5 | 5 | 37 | 4 | 4 | 7 | 6 | 21 | 100 |
| 0.0 - 1.5 | 7 | 6 | 2 | 7 | 19 | 3 | 43 | 6 | 7 | 0 | 1 | 4 | 18 | 3 | 11 | 0 | 4 | 5 | 23 | 6 | 3 | 3 | 4 | 16 | 100 |
| <0.0 | 0 | 3 | 9 | 0 | 3 | 6 | 22 | 7 | 2 | 0 | 15 | 1 | 25 | 5 | 10 | 1 | 3 | 6 | 27 | 5 | 10 | 0 | 11 | 26 | 100 |
| All | 4 | 3 | 3 | 3 | 13 | 2 | 28 | 5 | 7 | 3 | 4 | 4 | 24 | 5 | 9 | 2 | 7 | 7 | 30 | 5 | 5 | 3 | 5 | 18 | 100 |

mainly because of the fact that all districts in the state recorded yield growth exceeding 2.5 per cent per annum.

Across the regions, almost half of the districts growing rapidly (growth exceeding 3.5 per cent) on account of crop yield are located in the Western-central region. Another about one-third of the rapidly growing districts are located in the Eastern region. Therefore more than 80 per cent of the rapidly growing districts during 1990s are from these regions alone. The most noticeable is the case of the Northern region, which during 1960s, 1970s and 1980s has grown rapidly in wake of availability of the green revolution technology. During 1990s, however, only 6 per cent of the fast growing districts in India were from this region. The gains of Green Revolution technology seems to have petered out in this region. This is evident from the fact that proportion of districts in two high growth ranges has declined rapidly overtime. For instance, 74 per cent of the districts in this region recoded high growth exceeding 3.5 per cent per annum during 1962-1980 period. The proportion high growth districts has declined to 27 per cent during 1980s and ultimately to 6 per cent during 1990s. On the other end, compared with just 2 per cent during 1962-1983 period, and 7 per cent during 1980s, as many as 68 per cent of the districts recorded very slow growth (Less than 1.5 per cent) in crop yield during 1990s. The districts in this region are losing their advantages of being earlier adopters of the Green Revolution technology. Though deceleration in growth of yield also marked other regions as well, but as noticed earlier it was mainly due to unfavourable weather conditions prevailing in most part of the semi-arid tropical India. However, poor growth of yield by majority of the districts in a region with a very high proportion of its area under assured irrigation may not be entirely attributed to adverse weather conditions. It seems the phenomenon is intimately related with technological stagnation in agriculture of the region.

Across the states, Himachal Pradesh, Punjab, Uttranchal, Madhya Pradesh and Chattisgath are the worst performer during 1990s having none of their district in the top three high yield growth ranges. Closely follow these are the states of Orissa and Tamil Nadu in this context. In contract to these eight states is Jharkhand having all its districts figuring in the top three yield growth categories. Jharkahnd in this context is followed by Maharashtra with 59 per cent, Rajasthan 47 per cent and Gurjarat with 59, 47 and 42 per cent districts respectively falling in these top high yield growth categories. This has occurred despite the fact that almost all districts in these states were declared drought affected during 2002. (Appendix 7).

Most of the districts in the Northern and Southern regions perform poorly on account of yield growth during the 1990s. On the other hand, with the exception of districts falling in Assam, Orissa, and Madhya Pradesh, most of districts in the Eastern and Western-central region states performed comparatively better on this account. Since majority of the districts in these regions figure in the bottom of the ranking scale on basis of land productivity, but their appearance on the high side on ranking scale on yield growth seems to suggest the technological up-gradation of agricultural production in states of these lagging regions. The most notable is the performance of districts falling in the states of Gujarat and Maharashtra, that despite drought conditions never performed so high on growth account. With only exception on 2 in Gujarat and 1 district in Maharashtra, all other districts in these states has growth less than 3.5 per cent per annum during 1980-83 to 1990-93 (Bhalla and Singh, 2001). However, during 1990-3 to 2001-4 as many as 37 per cent of the districts in these states have recorded growth in crop yield exceeding 3.5 per cent per annum. Therefore, technology driven high growth in crop yield seems to have acted as a main engine of growth for comparatively better performance of the districts in these states. However this engine seems to be losing its steam as prime mover of growth in the Northern region states. This certainly applies to Punjab and Haryana agriculture that were on forefront in adoption of the 'Green Revolution' technology but experienced serious deceleration in agricultural growth since early 1990s (ICAR, 1998).

7. Development and Use of Modern Inputs

The recent debacles in the growth of agricultural sector in India, *inter alia*, is attributed to slow down in capital formation in general and that of capital formation in public sector in particular (GOI, 2005). Similarly slowdown in supply of institutional credit to agriculture sector is also considered to be one of the factors for poor plight of the peasantry and slowdown of Indian agriculture. How the observed pattern of district level growth in Indian agriculture is associated with these observed developments at the micro level? Though time and resource constraint does not permit us to go into details of explore into observed phenomenon, yet we examined the association between the use of some inputs and observed district levels of agricultural development in India during the triennium 2001-04.

Information on distribution of districts by the level of development and use of land area, labour, fertilizer, irrigation, tractors, and tubewells, and availability of credit supplied by the scheduled commercial banks for agriculture purposes is detailed in Table-11. A close

affinity between use of inputs and level of agricultural development in India is clearly evident from the information. Level of development measured in term of land productivity and per hectare use of modern inputs moves in tandem with each other. There are 3-4 time variations across districts in use of modern inputs across highly developed and chronically under developed districts in India. For instance fertilizer use, which determine the impact of other inputs like irrigation, cropping intensity, and mechanisation, varies from a high of 239 kilograms per hectare of the net sown area in highly developed districts to as low as 57 kilograms for chronically under developed districts. Similarly compared with 54 per cent in the case of highly developed districts, chronically under developed districts has a very small proportion (21 per cent) of their area under irrigation. More specifically, intensity of tubewells in these districts, is as low as 74 per thousand hectares of the net sown area against 173 in the highly developed quartile. In fact irrigation in general and assured and regulated supply of irrigation through tubewells in particular, along with other time saving and production efficiency enhancing machines and implements like tractors, facilitates intensification of land use. This is evident from the fact that high density of irrigation, tubewells, and tractors enabled the most productive top quartile of districts to use as much as 60 per cent of their land area under double cropping. Compared with these districts, the proportion of the double cropped area in the chronically under developed quartile of districts is as low as 19 per cent.

Most of the modern inputs, specifically machines like tractors, tubewells, electric motors, diesel engines and other power driven mechanical implements requires considerable initial investment. Most of these costly machines are beyond the purchasing power of the farmers in a country like India having almost three-fourth of its farmers falling in small and marginal farmer categories and almost one-third of them living in abject poverty. Availability of institutional finance therefore not only provides purchasing power to them to buy such costly lumpy machines and implements but also help them to buy other crucial inputs like improved seed, fertilizer, pesticides and other services. Information on the supply of credit by the scheduled commercial banks in districts is used to examine its role in agricultural development. For this purpose, information on the outstanding credit on 1st April 2002 is compiled for all the districts included in our study. It may be seen that the outstanding bank credit varies from Rs. 6893 for highly developed quartile of districts to Rs 2782 per hectare for the most under developed districts in India (Table-11) .

Table- 11 Use of Inputs by Levels of Development, 2001-04

| Level of Development | Land Productivity (Rs./ Hc) | No of Districts | Cropping Intensity (%) | % age of area under Irrigation | Fertilizers consumption (Kgs/Hc) | Tractors (Number / 000 Hc) | Tubewells (Number / 000 Hc) | Bank Credit (Rs/Hc) | Agriculture workers (000/Hc) |
|-----------------------------|------------------------------------|------------------------|-------------------------------|---------------------------------------|-----------------------------------------|-----------------------------------|------------------------------------|----------------------------|-------------------------------------|
| Highly Developed | 41576 | 145 | 160 | 56 | 239 | 32 | 173 | 6893 | 1845 |
| Developed | 23145 | 145 | 137 | 47 | 129 | 22 | 138 | 4512 | 2098 |
| Underdeveloped | 16159 | 145 | 129 | 33 | 97 | 13 | 97 | 3561 | 1904 |
| Chronically Underdeveloped | 9767 | 146 | 119 | 21 | 57 | 9 | 74 | 2782 | 1283 |
| All | 20845 | 581 | 134 | 39 | 120 | 18 | 114 | 4205 | 1701 |

Share (%) of Districts in Inputs and Output by Level of Developments, 2001-04

| Level of Development | Districts (%) | Output | Area (NAS) | Agriculture Workers | Area Irrigated | Fertilizers (NPK) | Tractors | Tubewells | Credit |
|-----------------------------|----------------------|---------------|-------------------|----------------------------|-----------------------|--------------------------|-----------------|------------------|---------------|
| Highly Developed | 25 | 44 | 22 | 23 | 39 | 44 | 40 | 33 | 36 |
| Developed | 25 | 23 | 21 | 26 | 26 | 23 | 26 | 26 | 23 |
| Underdeveloped | 25 | 16 | 20 | 24 | 17 | 16 | 15 | 17 | 17 |
| Chronically Underdeveloped | 25 | 17 | 37 | 27 | 18 | 18 | 19 | 24 | 24 |
| All | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

The role of modern inputs in inter-district differences is also evident from the comparative variations in the share of area, output, and modern inputs across the districts categorized by their level of development. Surprisingly, the share of districts in use of fertilisers and their share in the output exactly follow the same patterns. This validates our earlier hypothesis of fertilisers as a catchall indicator of other modern inputs contributing to higher production. Even in the case of bottom two underdeveloped groups of districts, share in area irrigated, fertilizer use and tractors almost match their share in production. Due to low intensive use of modern inputs, the chronically underdeveloped group of districts are contributing just 17 per cent to overall agricultural production from 37 per cent share in net sown area and 28 per cent of the agricultural work force in the country. On the other extreme, the most developed group of districts contribute more than double (44 per cent) to overall agricultural production than their share in the overall cultivable area (22 per cent) and workforce (24 per cent). Share of each category of districts in the outstanding credit extended by the scheduled commercial banks to agriculture, follow the same pattern as their share in modern inputs in general and tubewells in particular. Therefore, besides other spatial constraints, avoidance of banks and other financial institution to poor farmers in the backward and remote rural region seems to be responsible for sorry status of agriculture in these chronically underdeveloped districts.

Information provided in Table-12 suggests that besides the use of modern inputs, differences in the level of agricultural development across districts are intimately related with the cropping pattern across districts. In fact the use of modern inputs in general and fertilisers and irrigation in particular is closely related with high input intensive modern technology crops like wheat and rice. This is evident as more than half of the area in highly developed group of districts is under wheat and rice crops. Proportion of area under these two crops monotonically decline (from 52 to 23 per cent) as we move down the levels of development. Same is true for very high value fruits and vegetables (F&V), and condiments and spices (C&S) groups taken together. Conversely, area under coarse cereals and pulses groups monotonically increases as we move down the productivity scale. While the developed top quartile group has 56 per cent of their areas under high productive rice and wheat crops and high value condiments, spices, fruits and vegetables. On the contrary, the bottom quartile of chronically underdeveloped districts has as much as 56 per cent of their area under low productivity groups of coarse cereals, pulses and oil seeds crops. The impact of cropping pattern on level of development is also evident form the fact that the chronically

underdeveloped group of districts account for about a half of the All-India area under coarse cereals and pulses compared with top quartile accounting for just only 9 per cent. The top quartile however share as high as 42 and 36 per cents of the area under high value crops of F&V and C&S, and wheat and rice groups respectively.

Table-12 Cropping Pattern and Crop Yields by Levels of Development

| Level of Development | Rice & Wheat | Coarse Cereals | Pulses | Oil Seeds | Fruits & Veg & Cond & Spices |
|-----------------------------------------------------|--------------|----------------|--------|-----------|------------------------------|
| % share of each crop in overall area | | | | | |
| Highly Developed | 52 | 6 | 4 | 8 | 4 |
| Developed | 44 | 12 | 10 | 15 | 3 |
| Underdeveloped | 32 | 16 | 15 | 16 | 2 |
| Chronically Underdeveloped | 23 | 26 | 18 | 14 | 1 |
| % share of each level in all India crop area | | | | | |
| Highly Developed | 36 | 9 | 9 | 16 | 42 |
| Developed | 26 | 16 | 18 | 25 | 26 |
| Underdeveloped | 18 | 22 | 26 | 26 | 20 |
| Chronically Underdeveloped | 20 | 52 | 47 | 33 | 12 |
| Crop Yield (Rs. per hectare) | | | | | |
| Highly Developed | 22894 | 21511 | 10739 | 22133 | 77383 |
| Developed | 15813 | 13905 | 11734 | 16840 | 63600 |
| Underdeveloped | 12219 | 10463 | 10566 | 12501 | 47128 |
| Chronically Underdeveloped | 9388 | 6651 | 7710 | 9707 | 42868 |

Though cropping pattern is intimately related with the levels of development, yet some other factors seems to be at work for emerging inter-district disparities in the levels of development. This is evident from variations in inter-crop yields across the levels of development. With exceptions of F&V and C&S, and pulses groups, there are not much significant inter-crop differences in crop yields. Exceptionally high level of F&V and C&S yield, however, may be interpreted cautiously as many crops constituting this group are perennial (having whole year as crop cycle) whereas most of the other crops are seasonal (having 3-6 month of crop cycle). However, even on adjusting for crop cycle (halving the yield level), this group still has a higher level of productivity compared with other crops. Very small inter-crop variations in yield and very high intra crop differences in yield across districts seems to suggest that factors other than cropping pattern, like access and choices of crops technology, capacity and capability of the farmers in exploitation of the available technology, agro-climatic constraints and agricultural environmental factors related with access, quality and efficacy of rural infrastructure may be at work for observed inter-district differences in development of Indian agriculture.

To further explore into contribution of cropping pattern and various identified inputs and other factors to inter-district differences in the level of agricultural development, we estimated the following form of the Cobb-Douglas production function on the district level data:

$$\text{Log}_n(Y) = \beta_0 + \sum_{i=1}^7 \beta_i \text{Log}_n(X_i) + \sum_{j=1}^4 \gamma_j \text{Log}_n(Z_j) + \sum_{k=1}^2 \delta_k \text{Log}_n(H_k) + \sum_{l=1}^3 \lambda_l (D_l) + U$$

Where Y- is total value of agricultural output in a district during the triennium 2001-04.

X_i - is a set of direct input variables [Land, Labour, Cropping Intensity, Irrigation, Fertiliser, Tractors and Bank Credit] used in a district during 2001-04.

Z_j – is the set of variables measuring %age of the ‘Gross Cropped Area’ in a district under j-th set of crops[4 set of crops included are: coarse cereals, pulses, condiments and spices, and fruits and vegetables]

H_k – is the set of human resource variables [education and health] of the population

D_l – is a set of Dummy variables [one each for districts experiencing drought during 2001 and 2002 and third for districts experiencing serious flood during 2003]

U . is the stochastic error term

and β , γ , and δ - are coefficients of the regression model, interpreted as production elasticity’s of the respective variables and λ is interpreted as the impact of the drought/flood on production.

The underlying hypothesis in this production function is that increased use of land, labour, fertilisers, tractors, supply of more bank credit to farmers, higher proportion of land area under irrigation, and intensive use of land (higher cropping intensity) leads to higher agricultural production. The model also hypothesise that higher proportion of area under high value crops of condiments and spices, and fruits and vegetables contributes to higher productivity. Conversely allocation of a higher proportion of area under low technology crops of coarse cereals and pulses leads to low agricultural productivity. We also hypothesise that the better human resources capital (health and education) of the work force enhances its capacity and capabilities in terms of better performance of physical work, awareness about technology, and efficient utilisation of resources. All these tend to augment agricultural development. The adverse impact of unfavourable weather conditions (droughts and floods) on agricultural production is also incorporated in the model by inserting dummy variable for

the districts experiencing adverse drought in 2001 and 2002 and serious floods during 2003. The OLS estimates of the regression model are presented in Table-13.

Table- 13
Determinants of Inter District Variations in Agricultural Production

| OLS Regression | | [Dependent Variable: Value Output] | |
|----------------------------------------|-------------------------|-------------------------------------|---------|
| Variables | Regression Coefficients | Standard Error | p-value |
| (Constant) | 3.996 | 0.549 | 0.000 |
| Area {Net Area sown in Hectares} | 0.827 | 0.033 | 0.000 |
| Labour [Number] | -0.024 | 0.029 | 0.407 |
| Cropping Intensisty [%] | 1.010 | 0.078 | 0.000 |
| Irrigated [%age of Gross cropped area] | 0.063 | 0.017 | 0.000 |
| Fertilisers(Kgs of NPK) | 0.080 | 0.015 | 0.000 |
| Tractors [000 Numbers] | 0.004 | 0.010 | 0.709 |
| Bank Credit [Agriculture Purposes] | 0.118 | 0.018 | 0.000 |
| % Area under Coarse Cereals | -0.045 | 0.007 | 0.000 |
| % Area under Pulses | -0.053 | 0.009 | 0.000 |
| % Area under Condiment & Spices | 0.015 | 0.007 | 0.026 |
| % Area under Fruits & Vegetables | 0.070 | 0.008 | 0.000 |
| Literacy (District Rural) Rate | 0.121 | 0.073 | 0.094 |
| Health Status [Composite Index] | 0.159 | 0.044 | 0.000 |
| Drought Districts-2001 Dummy | -0.130 | 0.039 | 0.001 |
| Drought Districts-2002 Dummy | -0.121 | 0.036 | 0.001 |
| Flood Districts-2003 Dummy | -0.127 | 0.041 | 0.002 |
| | | | |
| R ² | 0.934 | | |
| \bar{R}^2 | 0.932 | | |
| Conditional Index | 172.87 | | |
| Number of Observations | 581 | | |

Note All variables (except Dummy variables) are measured in logarithmic form

The estimates of regression parameters reveal that the impact of all variables on inter-district differences in the agricultural development is on the expected lines with exceptions of labour and tractor variables. The estimated values of their coefficients are not significant statistically. Moreover sign of the labour coefficient is negative, which is contrary to our hypothesis and widely accepted contribution of workers to agricultural production. Researchers generally encounter such adverse signs and unexpected results in having a high degree of multicollinearity among various explanatory variables studies (Bhalla and Singh, 2001 and Gujarati, 2007). Though the model explains about 93 per cent inter-district

differences in agricultural production and most of the included variables are significant statistically, but it suffers from a very high degree of multicollinearity among the included variables. This is indicated by a very high value of the conditional index (172.87) as condition index value over 30 suggests serious multicollinearity problems (Gujarati, 2007). Merging problematic variable(s) with some other variable, estimating restricted function or dropping variable from the regression are some suggested measures. Merging variable in present context is not feasible and nor one can afford to drop variables as it may leads to serious model specification problem and distortion of estimates. We estimated the restricted function by estimating per hectare productivity function rather than output function. However problem persists even in this restricted version of the model. In absence of any widely accepted fool proof method to completely overcome the problem, ‘Ridge Regression’ method has been recommended and empirically employed to overcome problems posed by the presence of multicollinearity in regression models (Vinod and Ullah, 1981, and Bhalla and Singh, 2001). Therefore we also re-estimated the model using Ridge Regression and the estimates are presented in Table-14.

The ridge regression estimates are on the expected lines. All the variables included in the model contribute significantly to inter-district differences in the agricultural development. As mentioned earlier, all other estimated coefficients except of Dummy variables, has straight forward interpretation as production elasticity’s of the respective variables. For instance, other things being same, 0.134 value of the credit variable means that 10% more supply of bank credit to agriculture on an average leads to 1.34 per cent higher growth of agriculture production. However, dummy variable coefficients need to be modified for their institutive interpretation. Conversion $[\text{drought impact}(\%) = \{\exp(\beta_{\text{Dummy}}) / \text{Log}_e\} \times 100]$ of the coefficients for the drought and flood dummies suggests that agricultural production on average declined by 41 per cent in the districts that have experienced drought during 2001 or 2002 or flood during 2003. Such a high reduction in production from the same resources cost very dearly to the producers.

Besides the usual regression coefficients, Table-14 also reports their corresponding standardised or beta coefficients. The standardised coefficients, as being standardised to the unit of measurement, help us to compare the impact of individual impacts of independent variables and hence to determine which of the independent variables have a greater effect on

Table- 14 Determinants of Inter District Variations in Agricultural Production

| Ridge Regression[k=0.03] | | [Dependent Variable: Value Output] | | |
|----------------------------------------|------------------------------|--------------------------------------------|-----------------------------------|----------------|
| Variables | Estimated Coefficient | Standard Error | Standardized Coefficients* | p-value |
| (Constant) | 4.594 | 0.517 | 0.000 | 0.000 |
| Area [Net Area Sown in Hectares] | 0.683 | 0.025 | 0.638 | 0.000 |
| Labour [Number] | 0.052 | 0.024 | 0.045 | 0.032 |
| Cropping Intensity [%] | 0.940 | 0.075 | 0.149 | 0.000 |
| Irrigated [%age of Gross cropped area] | 0.040 | 0.015 | 0.035 | 0.011 |
| Fertilisers (Kgs of NPK) | 0.093 | 0.012 | 0.156 | 0.000 |
| Tractors [000 Numbers] | 0.018 | 0.009 | 0.033 | 0.045 |
| Bank Credit [Agriculture Purposes] | 0.134 | 0.016 | 0.175 | 0.000 |
| % Area under Coarse Cereals | -0.044 | 0.006 | -0.082 | 0.000 |
| % Area under Pulses | -0.046 | 0.009 | -0.071 | 0.000 |
| % Area under Condiment & Spices | 0.020 | 0.007 | 0.038 | 0.002 |
| % Area under Fruits & Vegetables | 0.062 | 0.008 | 0.092 | 0.000 |
| Literacy (District Rural) Rate | 0.161 | 0.068 | 0.032 | 0.019 |
| Health Status [Composite Index] | 0.154 | 0.042 | 0.051 | 0.000 |
| Drought Districts-2001 Dummy | -0.101 | 0.038 | -0.031 | 0.008 |
| Drought Districts-2002 Dummy | -0.104 | 0.034 | -0.039 | 0.002 |
| Flood Districts-2003 Dummy | -0.092 | 0.040 | -0.028 | 0.021 |
| | | | | |
| R ² | 0.931 | | | |
| \bar{R}^2 | 0.929 | | | |
| Number of Observations | 581 | | | |

Note: . All variables (except Dummy variables) are measured in logarithmic form.

* Standardized coefficient or beta coefficient is the estimate of an analysis performed on variables that have been standardized so that they have variances of 1.

the dependent variable in multiple regression analysis. Comparison of standardised coefficients reveals that supply of agricultural credit by banks is the second most important determinant of inter-district difference in agricultural production after land. That is, it is the most important contributors to the differences in level of agricultural development. Along with bank credit, use of chemical fertilizers, intensive use of land (higher cropping intensity), higher area under fruits and vegetables, and better health status of the population are the five most important contributors, in that order, to higher level of agricultural development in India. Besides these five, higher proportion of area under condiments and spices and higher level of rural literacy also lead to higher level of agricultural development. On the other end, adverse climatic conditions resulting in severe droughts and floods, high proportion of area under low productive coarse cereals and pulses, low level of mechanisation and non-availability of irrigation facilities are mainly responsible for low level of agricultural development in a substantial number of districts in India. It may be noted that both the coarse

cereals and pulses group of crops are marked with low level of technological development compared with other (green revolution) food crops - wheat and rice. Dynamic changes in contribution of various inputs notwithstanding, role of many identified factors are well recognised in the literature on inter-regional differences in agricultural development. Observed contribution of human resource (health, and education) and bank credit, however, are exceptions in this context. Probably this is first econometric exercise to conclusively establish the contribution of human resource development to agricultural development, though Schultz (1964) recognised its role in transformation of traditional agriculture way back in early 1960s. Similarly, role of institutional credit in enhancing farmers access to modern inputs like fertiliser, tractors, tubewells, and other farm implements and machines, and hence modernisation of agriculture is well recognised. However, the present study brings out its significant contribution to development even though its role in higher use fertiliser consumption, irrigation and tractors is controlled (in regression). This implies the existence of some other channels as well through which bank credit contributes to higher level of agricultural development in India.

Three sets of important policy implications follow the findings of econometric exercise. One is that besides technological upgradation, there is an urgent need to drought proofing of Indian agriculture, expansion of irrigation facilities and control of floods. This requires plans and policies for efficient management of water resources and precision in weather (rain) forecasting. In fact occasional floods are major hurdles to many on farm investments in land improvement, soil conservation, buildings, and on-farm structures and sources of irrigation facilities. The other set includes expansion of institutional agricultural credit, intensification of agriculture, and improvement in human resource development of the rural population in agriculturally backward districts. Many short and medium term policies can bring significant improvement in many of these areas. Third set requires a mix of technological and many other strategies for enhancing the productivity of coarse cereals and pulses or diversification of area under these crops to superior foodgrains-wheat and rice, high value condiments and spices, and fruits and vegetables. This however requires building institutional capacities and identification of the constraints and potential crop technologies suitable to specific agro-climatic conditions prevailing in the chronically underdeveloped districts.

8. Summary and Conclusions

A. Summary

Recent poor performance of Indian agriculture notwithstanding, the district level evidence assembled in the study reveals considerable variations in overall impression across regions, states and districts in the country. Ranking of the districts on land productivity scale brings out the prevalence of extreme disparities in Indian agriculture. On one extreme are 175 agriculturally most developed districts contributing as much as 50 per cent to total agricultural production with only 27 per cent of the land resources in the country. On the other extreme are 231 agriculturally most underdeveloped districts contributing just 27 per cent to production but owning as much as 50 per cent of cultivated land in the country during 2001-04.

Geographically, Western-central region turned out to be the 'Achilles Heal' of India agriculture. About two-third (62%) of the India's chronically underdeveloped bottom quartile of the districts is located in this region. Only 8 of its 158 districts figure in the list of the top quartile of agriculturally most developed districts in India. Diagonally opposite is the case of Northern region that account for half of the agriculturally most productive districts in India. Only 10 per cent of the chronically underdeveloped quartile of the districts happens to be from this region. With exception of Goa, Gujarat and Daman and Diu, more than 80 per cent of the districts in the Western-central region states of Chattisgarh, Madhya Pradesh, Maharashtra, and Rajasthan fall in the agriculturally underdeveloped category of districts. Besides districts in this region, Jammu and Kashmir in the Northern, Jharkhand, and Orissa in the Eastern, Mizoram and Nagaland in the North-Eastern, and Karnataka in the Southern region are other states having about three-fourth on their districts in the underdeveloped category. The observed pattern of all-India ranking of the districts on level of development is quite consistent overtime.

Spatial pattern of development, however, undergo a change when districts are ranked on basis of the productivity of the workers employed in the agriculture sector. On labour productivity scale, 37 per cent of the chronically underdeveloped districts in India found to be located in the Eastern region states. Jharkhand is a special case in this context having all its districts in the chronically underdeveloped quartile of districts. Along with Jharkhand, Bihar and Himachal Pradesh are other two states having as much as 87 and 92 per cent of their districts respectively in the bottom quartile of chronically underdeveloped quartile of

districts. Besides these three, a substantial proportion of the districts in the states of Jammu and Kashmir, Uttaranchal, and Chattisgarh also figures in the category of chronically underdeveloped category of districts. Like the Eastern region, North-eastern region is special case in this context. With exceptions of Assam and Tripura, majority of the districts in remaining states in this region have low level of labour productivity. The deviation between the patterns of districts ranked on the basis on land and labour productivities is mainly due to high concentration of population and overdependence of work force on land resources in these states.

Besides wide regional variations, the study brings out that agricultural growth suffered a serious set back in majority of the districts during 1990s. Compared with 68 per cent during 1980s, only 31 per cent of the districts have recorded growth exceeding 2.5 per cent per annum during 1990s. The most distressing is the case of 26 per cent districts that suffered serious set back to their agricultural production and registered negative growth during 1990s. Besides these 26 negative growth districts, another 24 per cent districts recorded very slow growth falling short of 1.5 per cent per annum during 1990s. These negative or very slow growth districts do not depict any specific spatial pattern. They figures in the developed as well as in underdeveloped regions and states. The slow or negative growth though is mainly attributed to drought conditions during 2002 but drought alone is not responsible for their poor performance. Some other factors, including geographical, technological and institutional factors might also be at work for their poor growth during 1990s. Even many districts in the highly irrigated states like Punjab and Haryana also suffered serious slow down in their agricultural production. This is born out by the fact that not only the growth rate in gross cropped area, even the growth in crop yield decelerated seriously in many of the poor performing districts. The study brings out that the slow pace of technological developments is at work for poor performance of many districts. This is specifically the case of districts falling in comparatively agriculturally developed Northern and Southern regions in the country.

The observed pattern of agricultural development across districts in the country show close affinity with cropping pattern, availability of irrigation facilities and use of modern inputs like chemical fertilizers, and services of tractors and tubewells in agricultural production. Like a big gap in the levels of agricultural development between the most developed and chronically under developed quartiles of districts, similar gap also prevails in

use of these resources. Besides these inputs, similar big gap in the use of agricultural credit supplied by the scheduled commercial banks also found across the developed and underdeveloped districts in the country. In a country like India having three-fourth of its farmers falling in the small and marginal farmers categories, observed highly uneven distribution of agriculture credit among districts by the scheduled commercial banks, therefore, seems to be at work behind the existence of a big gap in the use of modern inputs across districts that ultimately get reflected in the level of agricultural development. Besides inputs, cropping pattern, and agro-climatic conditions, study probably first time conclusively establish the role of human resource capital, health and education, as significant contributors to agricultural development in India. In fact health and credit found to be among the five most important determinants of explaining inter-district disparities in Indian agriculture.

B. Conclusion

The role of agricultural development in overall economic growth, food security, generation of employment opportunities through numerous direct and indirect linkages, alleviation of rural poverty, and in improving overall quality of life of the population is well accepted. For rapid, inclusive, equitable and sustainable development, it is therefore crucial not only to put the agriculture on fast growth trajectory but also to reduce the persisting widespread disparities across regions. Whatsoever welfare policies the country may adopt, it would be almost impossible to provide a sustainable decent livelihood to a large segment of small and marginal farmers and landless workers, which constitutes bulk on rural poor, without rejuvenation of agriculture in the chronically underdeveloped regions. Left to them, a large number of districts trapped in very low level of development may never be in a position to catch up with the districts on the frontier of agricultural development. With divergent cropping pattern, growth and levels of development, varied agro climatic and environmental diversities, uniform development strategy may not resolve the problem of all the regions. Based on the observed growth and pattern of development in this study, following region specific strategy is recommended for inclusive rapid growth of Indian agriculture:

With squeezing area under cultivation and emerging population pressure on land resources, future of Indian agriculture only lies in up-gradation in its technological base. Like historical transformation of Indian agriculture followed by adoption of 'Green Revolution' technology during mid-sixties, the road ahead lies in successful adoption of biotechnology in Indian agriculture (Borlaug, 2002). The future of food security lies exclusively in new

technology as the green revolution technology seems to have attained its plateau, as is evident from serious slow down of agricultural growth in the northern region states. Expansion of technological base is equally relevant for other regions as well, but steps need to be initiated to exploit the potentials of existing technologies. This is so in case of the Western-central and eastern region districts, as evidence compiled by the Ministry of Agriculture, Government of India, indicate wide unexploited gap in potential and actual yield of almost all crops in these regions (GOI, 2007).

Technology apart, rehabilitating the productive capacity of the soil is another policy initiative urgently required in many regions in India. Acidity and/or alkalinity problems in parts of the Eastern, North-east, and Western-central region states are major problems. Similarly serious depletion of land fertility due to overexploitation in the northern region states of Punjab, Haryana and Uttar Pradesh leading to decline in productivity of resources needs to be addressed urgently. Besides land, serious depletion of groundwater in Punjab, Haryana, and Tamil Nadu is posing a big question mark on future sustainability of agriculture in these states. Sooner or later, many more states may encounter similar water depletion problem. Policies therefore urgently required promoting investment in conservation of land and water resources in the problematic regions.

Besides technology and resource conservation, many research, market and institutional complementarities need to be strengthened so as to meet the challenges posed by the globalization of Indian agriculture. Consolidation of land holdings, strengthening market infrastructure, formalisation of contract farming and development of agro-processing industries are some of such policy initiatives. Similarly, as suggested by the study, human resources development through better health and education would not only facilitate to put the agriculture on a sustained path of higher development but would also go a long way to reduce poverty and to release population pressure on land resource. Only better human resource development can enhance the capabilities of rural workers, which is a pre-requisite for grabbing the emerging opportunities in the modern sector. In fact, shift of work force must be given overriding priority as share of agriculture in GDP is declining exponentially whereas share of work force is declining at snail's pace. This would further accentuate the rural-urban inequalities, which would be contrary to the declared objective of inclusive and equitable growth envisaged in the approach paper to the 11th Five Year Plan.

Macro level policies no doubt would go a long way in rejuvenation on Indian agriculture but these alone may not be able bridge wide gap between developed and underdeveloped region. Concentration of the employment guarantee scheme in the 150 most backward districts during first year of the UPA government and its expansion later on to some other districts has been well taken. Development of infrastructure in these districts under this employment guarantee act and recently announced “Mahatama Gandhi Backward Region Development Fund’ are well come steps in this context. However much more needs to be done for agricultural development in the chronically lagging districts. Policies, institutions, and technologies need to be designed to overcome the impediments to agricultural development in these lagging districts. For a viable and permanent solution to the persistent problem of chronic underdevelopment and mass poverty in these districts, and also in order the growth to be more inclusive, as being envisaged in the ‘Approach Paper to the 11th Five Year Plan’, an **‘Intensive Agricultural Development Programme(IADP) for Chronically Underdeveloped Districts’ package [on lines of 150 districts adopted for the National Rural Employment Guarantee (NREG) programme] based on the local resources, potentials and constraints need to be provided for modernization of 150-200 agriculturally most backward districts in the country.** Many ongoing rural development programmes like the Rural Infrastructure Development Fund (RIDF), the National Agricultural Insurance Scheme (NAIS), Backward Region Grant Fund (BRGF), Accelerated Irrigation Benefits Programme (AIBP) and other district level rural development programmes, need to be implemented on priority basis in these lagging districts so as to supplement envisaged IADP for rapid overall economic transformation of the chronically underdeveloped districts.

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Appendix -1**List of Crops Covered and Their Prices' During Triennium Ending 2001-04**

| Sr No | Crop | Price (Rs/Tonne) |
|--------------|--------------------|-----------------------------|
| 1 | Rice | 8081 |
| 2 | Wheat | 6408 |
| 3 | Jowar | 5533 |
| 4 | Bajra | 4546 |
| 5 | Barley | 5629 |
| 6 | Maize | 5150 |
| 7 | Ragi | 4839 |
| 8 | Small millets | 6376 |
| 9 | Gram | 16259 |
| 10 | Arhar | 15965 |
| 11 | Other Pulses | 15325 |
| 12 | Linseed | 16011 |
| 13 | Seasum | 21797 |
| 14 | Groundnut | 15174 |
| 15 | Rapeseed & Mustard | 15482 |
| 16 | Castor | 15149 |
| 17 | Coconut | 3973 |
| 18 | Nigerseed | 15973 |
| 19 | Safflower | 6415 |
| 20 | Sunflower | 16616 |
| 21 | Soyabeans | 12283 |
| 22 | Sugarcane | 651 |
| 23 | Cotton | 10696 |
| 24 | Jute | 1473 |
| 25 | Sanhemp | 14410 |
| 26 | Mesta | 1316 |
| 27 | Tea | 51539 |
| 28 | Coffee | 52861 |
| 29 | Tobacco | 35137 |
| 30 | Rubber | 34520 |
| 31 | Cardamom | 442667 |
| 32 | Chillies (Dry) | 36809 |
| 33 | Balck Pepper | 91910 |
| 34 | Ginger | 32305 |
| 35 | Turmeric | 26707 |
| 36 | Arcea nuts | 53716 |
| 37 | Garlic | 31545 |
| 38 | Coriander | 26046 |
| 39 | Bannana | 5967 |
| 40 | Cashew Nuts | 35628 |
| 41 | Potatoes | 3460 |
| 42 | Sweet Potatoes | 7469 |
| 43 | Tapioca | 3088 |
| 44 | Onion | 4469 |
| 45 | Guarseeds | 9923 |

Source: (i) CSO(2005), *National Accounts Statistics*, New Delhi, Ministry of Statistics and Programme Implementation, government of India.

(ii) MOA (various Years), *Area and Production of Principal Crops in India*, New Delhi, Directorate of Economics and Statistics, Ministry of Agriculture.

Appendix – 2

Formation of Comparable District Units, 1990-93 and 2001-04

| Sr no | State | 1990-93 | Comparable District Units 2001-04 |
|----------|----------------|----------------|--------------------------------------|
| 1 | Andhra Pradesh | Adilabad | Adilabad |
| 2 | Andhra Pradesh | Anantapur | Anantapur |
| 3 | Andhra Pradesh | Chittoor | Chittoor |
| 4 | Andhra Pradesh | Cuddapah | Cuddapah |
| 5 | Andhra Pradesh | East Godavari | East Godavari |
| 6 | Andhra Pradesh | Guntur | Guntur |
| 7 | Andhra Pradesh | Karimnagar | Karimnagar |
| 8 | Andhra Pradesh | Khammam | Khammam |
| 9 | Andhra Pradesh | Krishna | Krishna |
| 10 | Andhra Pradesh | Kurnool | Kurnool |
| 11 | Andhra Pradesh | Mahaboobnagar | Mahaboobnagar |
| 12 | Andhra Pradesh | Medak | Medak |
| 13 | Andhra Pradesh | Nalgonda | Nalgonda |
| 14 | Andhra Pradesh | nellore | Nellore |
| 15 | Andhra Pradesh | nizamabad | Nizamabad |
| 16 | Andhra Pradesh | prakasam | Prakasam |
| 17 | Andhra Pradesh | ranga reddy | Ranga reddy |
| 18 | Andhra Pradesh | srikakulam | Srikakulam |
| 19 | Andhra Pradesh | visakhapatnam | Visakhapatnam |
| 20 | Andhra Pradesh | vizianagaram | Vizianagaram |
| 21 | Andhra Pradesh | warangal | Warangal |
| 22 | Andhra Pradesh | West Godavari | West Godavari |
| 23 | Assam | Barpeta | Barpeta |
| 24 | Assam | Bongaigaon | Bongaigaon |
| 25 | Assam | Cachar | Cachar |
| 26 | Assam | Darrang | Darrang |
| 27 | Assam | Dhemaji | Dhemaji |
| 28 | Assam | Dhubri | Dhubri |
| 29 | Assam | Dibrugarh | Dibrugarh |
| 30 | Assam | Goalpara | Goalpara |
| 31 | Assam | Golaghat | Golaghat |
| 32 | Assam | Hailakandi | Hailakandi |
| 33 | Assam | Jorhat | Jorhat |
| 34 | Assam | Kamrup | Kamrup |
| 35 | Assam | Karbi Anglong | Karbi Anglong |
| 36 | assam | Karimganj | Karimganj |
| 37 | Assam | Kokrajhar | Kokrajhar |
| 38 | Assam | Lakhimpur | Lakhimpur |
| 39 | Assam | Marigaon | Marigaon |
| 40 | Assam | N Kachar Hills | N Kachar Hills |
| 41 | Assam | Nagaon | Nagaon |
| 42 | Assam | Nalbari | Nalbari |
| 43 | Assam | Sivasagar | Sivasagar |
| 44 | Assam | Sonitpur | Sonitpur |
| 45 | Assam | Tinsukia | Tinsukia |
| 46 | Bihar | Araria | Araria |
| 47 | Bihar | Aurangabad | Aurangabad |
| 48 | Bihar | Begusarai | Begusarai |

| Sr no | State | 1990-93 | Comparable District Units 2001-04 |
|--------------|--------------|--------------------|--------------------------------------------------|
| 49 | Bihar | Bhagalpur | Bhagalpur + Banka |
| 50 | Bihar | Bhojpur | Bhojpur + Buxar |
| 51 | Bihar | Champaran(east) | Champaran (east) |
| 52 | Bihar | Champaran(west) | Champaran (west) |
| 53 | Bihar | Darbhangha | Darbhangha |
| 54 | Bihar | Gaya | Gaya |
| 55 | Bihar | Gopalganj | Gopalganj |
| 56 | Bihar | Jahanabad | Jahanabad + Arval |
| 57 | Bihar | Katihar | Katihar |
| 58 | Bihar | Khagaria | Khagaria |
| 59 | Bihar | Kishanganj | Kishanganj |
| 60 | Bihar | Madhubani | Madhubani |
| 61 | Bihar | Madhupura | Madhupura |
| 62 | Bihar | Monghyr | Monghyr + 75% of Sheikhpura + Lakhisarai + Jamui |
| 63 | Bihar | Muzafarpur | Muzafarpur |
| 64 | Bihar | Nalanda | Nalanda + 25% of Sheikhpura |
| 65 | Bihar | Nawadha | Nawadha |
| 66 | Bihar | Patna | Patna |
| 67 | Bihar | Purnea | Purnea |
| 68 | Bihar | Rohtas | Rohtas + Bhabhua |
| 69 | Bihar | Saharsa | Saharsa + Supaul |
| 70 | Bihar | Samastipur | Samastipur |
| 71 | Bihar | Saran | Saran |
| 72 | Bihar | Sitamarhi | Sitamarhi + Sivhar |
| 73 | Bihar | Siwan | Siwan |
| 74 | Bihar | Vaishali | Vaishali |
| 75 | Chattisgarh | Bilaspur | Bilaspur |
| 76 | Chattisgarh | Durg | Durg |
| 77 | Chattisgarh | Jagdalpur (Bastar) | Jagdalpur (Bastar) + Dantewala + Kanker |
| 78 | Chattisgarh | Raigarh | Raigarh + Jashpur |
| 79 | Chattisgarh | Raipur | Raipur + Damtari + Mahasamund |
| 80 | Chattisgarh | Rajnandgaon | Rajnandgaon + 67.6% of Kabridham |
| 81 | Chattisgarh | Sarguja | Sarguja + Koriya |
| 82 | Gujarat | Ahmedabad | Ahmedabad |
| 83 | Gujarat | Amreli | Amreli |
| 84 | Gujarat | Banaskantha | Banaskantha + 17.6% Patan |
| 85 | Gujarat | Bharuch | Bharuch + 86.4 % Narmada |
| 86 | Gujarat | Bhavnagar | Bhavnagar |
| 87 | Gujarat | Dang | Dang |
| 88 | Gujarat | Gandhinagar | Gandhinagar |
| 89 | Gujarat | Jamnagar | Jamnagar |
| 90 | Gujarat | Junagadh | Junagadh+ Porbander |
| 91 | Gujarat | Kheda | Kheda + Anand |
| 92 | Gujarat | Kutch | Kutch |
| 93 | Gujarat | Mehsana | Mehsana +82.4% Patan |
| 94 | Gujarat | Panchmahal | Panchmahal + Dahod |
| 95 | Gujarat | Rajkot | Rajkot |
| 96 | Gujarat | Sabarkantha | Sabarkantha |
| 97 | Gujarat | Surat | Surat |
| 98 | Gujarat | Surendranagar | Surendranagar |
| 99 | Gujarat | Vadodara | Vadodara + 13.6% Narmada |

| Sr no | State | Comparable District Units | |
|----------|------------------|---------------------------|------------------------------|
| | | 1990-93 | 2001-04 |
| 100 | Gujarat | Valsad | Valsad + Navasari |
| 101 | Haryana | Ambala | Ambala + Panchkula |
| 102 | Haryana | Bhiwani | Bhiwani |
| 103 | Haryana | Faridabad | Faridabad |
| 104 | Haryana | Gurgaon | Gurgaon |
| 105 | Haryana | Hisar | Hisar + Fatehabad |
| 106 | Haryana | Jind | Jind |
| 107 | Haryana | Kaithal | Kaithal |
| 108 | Haryana | Karnal | Karnal |
| 109 | Haryana | Kurukshehra | Kurukshehra |
| 110 | Haryana | Mahendragarh | Mahendragarh |
| 111 | Haryana | Panipat | Panipat |
| 112 | Haryana | Rewari | Rewari |
| 113 | Haryana | Rohtak | Rohtak + Jhajjar |
| 114 | Haryana | Sirsa | Sirsa |
| 115 | Haryana | Sonipat | Sonipat |
| 116 | Haryana | Yamunanagar | Yamunanagar |
| 117 | Himachal Pradesh | Bilaspur | Bilaspur |
| 118 | Himachal Pradesh | Chamba | Chamba |
| 119 | Himachal Pradesh | Hamirpur | Hamirpur |
| 120 | Himachal Pradesh | Kangra | Kangra |
| 121 | Himachal Pradesh | Kinnaur | Kinnaur |
| 122 | Himachal Pradesh | Kullu | Kullu |
| 123 | Himachal Pradesh | Lahul spiti | Lahul spiti |
| 124 | Himachal Pradesh | Mandi | Mandi |
| 125 | Himachal Pradesh | Shimla | Shimla |
| 126 | Himachal Pradesh | Sirmaur | Sirmaur |
| 127 | Himachal Pradesh | Solan | Solan |
| 128 | Himachal Pradesh | Una | Una |
| 129 | Jammu & kashmir | Anantnag | Anantnag |
| 130 | Jammu & kashmir | Baramulla | Baramulla |
| 131 | Jammu & kashmir | Budgam | Budgam |
| 132 | Jammu & kashmir | Doda | Doda |
| 133 | Jammu & kashmir | Jammu | Jammu |
| 134 | Jammu & kashmir | Kargil | Kargil |
| 135 | Jammu & kashmir | Kathua | Kathua |
| 136 | Jammu & kashmir | Kupwara | Kupwara |
| 137 | Jammu & kashmir | Leh | Leh |
| 138 | Jammu & kashmir | Poonch | Poonch |
| 139 | Jammu & kashmir | Pulwama | Pulwama |
| 140 | Jammu & kashmir | Rajouri | Rajouri |
| 141 | Jammu & kashmir | Srinagar | Srinagar |
| 142 | Jammu & kashmir | Udhampur | Udhampur |
| 143 | Jharkhand | Deoghar | Deoghar |
| 144 | Jharkhand | Dhanbad | Dhanbad + 67% Bokaro |
| 145 | Jharkhand | Dumka | Dumka + Jamtara |
| 146 | Jharkhand | East Singhbhum | East Singhbhum |
| 147 | Jharkhand | Giridh | Giridh +33% Bokaro |
| 148 | Jharkhand | Godda | Godda |
| 149 | Jharkhand | Gumla | Gumla + Simdega |
| 150 | Jharkhand | Hazaribag | Hazaribag + Chatra + Koderma |
| 151 | Jharkhand | Lohargada | Lohargada |

| Sr no | State | Comparable District Units | |
|----------|----------------|---------------------------|--------------------------------|
| | | 1990-93 | 2001-04 |
| 152 | Jharkhand | Palamu | Palamu + Garwah +Latehar |
| 153 | Jharkhand | Ranchi | Ranchi |
| 154 | Jharkhand | Sahibganj | Sahibganj + Pakur |
| 155 | Jharkhand | West Singhbhum | West Singhbhum +Seraikela |
| 156 | Karnataka | Bangalore rural | Bangalore rural |
| 157 | Karnataka | Belgaum | Belgaum |
| 158 | Karnataka | Bellary | Bellary + 38.6% Devanagere |
| 159 | Karnataka | Bidar | Bidar |
| 160 | Karnataka | Bijapur | Bijapur +Bagalkote |
| 161 | Karnataka | Chickmagalur | Chickmagalur |
| 162 | Karnataka | Chitradurga | Chitradurga + 34.7% Davanagere |
| 163 | Karnataka | Dakshina Kannada | Dakshina Kannada + Udipi |
| 164 | Karnataka | Dharwar | Dharwar + Gadag + Haveri |
| 165 | Karnataka | Gulbarga | Gulbarga |
| 166 | Karnataka | Hassan | Hassan |
| 167 | Karnataka | Kodagu | Kodagu |
| 168 | Karnataka | Kolar | Kolar |
| 169 | Karnataka | Mandya | Mandya |
| 170 | Karnataka | Mysore | Mysore + Chamarajanagar |
| 171 | Karnataka | Raichur | Raichur + Koppal |
| 172 | Karnataka | Shimoga | Shimoga + 26.7% Davanagere |
| 173 | Karnataka | Tumkur | Tumkur |
| 174 | Karnataka | Uttara kannada | Uttara kannada |
| 175 | Kerala | Alappuzha | Alappuzha |
| 176 | Kerala | Ernakulam | Ernakulam |
| 177 | Kerala | Idukki | Idukki |
| 178 | Kerala | Kannur | Kannur |
| 179 | Kerala | Kasaragod | Kasaragod |
| 180 | Kerala | Kollam | Kollam |
| 181 | Kerala | Kottayam | Kottayam |
| 182 | Kerala | Kozhikode | Kozhikode |
| 183 | Kerala | Malappuram | Malappuram |
| 184 | Kerala | Palakkad | Palakkad |
| 185 | Kerala | Pathanamthitta | Pathanamthitta |
| 186 | Kerala | Thiruvananthapuram | Thiruvananthapuram |
| 187 | Kerala | Thrissur | Thrissur |
| 188 | Kerala | Wayanad | Wayanad |
| 189 | Madhya Pradesh | Balaghat | Balaghat |
| 190 | Madhya Pradesh | Betul | Betul |
| 191 | Madhya Pradesh | Bhind | Bhind |
| 192 | Madhya Pradesh | Bhopal | Bhopal |
| 193 | Madhya Pradesh | Chhatarpur | Chhatarpur |
| 194 | Madhya Pradesh | Chhindwara | Chhindwara |
| 195 | Madhya Pradesh | Damoh | Damoh |
| 196 | Madhya Pradesh | Datia | Datia |
| 197 | Madhya Pradesh | Dewas | Dewas |
| 198 | Madhya Pradesh | Dhar | Dhar |
| 199 | Madhya Pradesh | Guna | Guna + Ashok Nagar |
| 200 | Madhya Pradesh | Gwalior | Gwalior |
| 201 | Madhya Pradesh | Hoshangabad | Hoshangabad + Harda |
| 202 | Madhya Pradesh | Indore | Indore |
| 203 | Madhya Pradesh | Jabalpur | Jabalpur + Katni |

| Sr no | State | Comparable District Units | |
|----------|----------------|---------------------------|---------------------------|
| | | 1990-93 | 2001-04 |
| 204 | Madhya Pradesh | Jhabua | Jhabua |
| 205 | Madhya Pradesh | Khandwa | Khandwa + Burhanpur |
| 206 | Madhya Pradesh | Khargone | Khargone + Barwani |
| 207 | Madhya Pradesh | Mandla | Mandla + Dindori |
| 208 | Madhya Pradesh | Mandsaur | Mandsaur + Neemach |
| 209 | Madhya Pradesh | Morena | Morena + Sheopur Kalan |
| 210 | Madhya Pradesh | Narsinghpur | Narsinghpur |
| 211 | Madhya Pradesh | Panna | Panna |
| 212 | Madhya Pradesh | Raisen | Raisen |
| 213 | Madhya Pradesh | Rajgarh | Rajgarh |
| 214 | Madhya Pradesh | Ratlam | Ratlam |
| 215 | Madhya Pradesh | Rewa | Rewa |
| 216 | Madhya Pradesh | Sagar | Sagar |
| 217 | Madhya Pradesh | Satna | Satna |
| 218 | Madhya Pradesh | Sehore | Sehore |
| 219 | Madhya Pradesh | Seoni | Seoni |
| 220 | Madhya Pradesh | Shahdol | Shahdol + Anupur + Umaria |
| 221 | Madhya Pradesh | Shajapur | Shajapur |
| 222 | Madhya Pradesh | Shivpuri | Shivpuri |
| 223 | Madhya Pradesh | Sidhi | Sidhi |
| 224 | Madhya Pradesh | Tikamgarh | Tikamgarh |
| 225 | Madhya Pradesh | Ujjain | Ujjain |
| 226 | Madhya Pradesh | Vidisha | Vidisha |
| 227 | Maharashtra | Ahmednagar | Ahmednagar |
| 228 | Maharashtra | Akola | Akola+ Washim |
| 229 | Maharashtra | Amravati | Amravati |
| 230 | Maharashtra | Aurangabad | Aurangabad |
| 231 | Maharashtra | Beed | Beed |
| 232 | Maharashtra | Bhandara | Bhandara+ Gondia |
| 233 | Maharashtra | Buldhana | Buldhana |
| 234 | Maharashtra | Chandrapur | Chandrapur |
| 235 | Maharashtra | Dhule | Dhule + Nandubar |
| 236 | Maharashtra | Gadchiroli | Gadchiroli |
| 237 | Maharashtra | Jalgaon | Jalgaon |
| 238 | Maharashtra | Jalna | Jalna |
| 239 | Maharashtra | Kolhapur | Kolhapur |
| 240 | Maharashtra | Latur | Latur |
| 241 | Maharashtra | Nagpur | Nagpur |
| 242 | Maharashtra | Nanded | Nanded |
| 243 | Maharashtra | Nasik | Nasik |
| 244 | Maharashtra | Osmanabad | Osmanabad |
| 245 | Maharashtra | Parbhani | Parbhani + Hingoli |
| 246 | Maharashtra | Pune | Pune |
| 247 | Maharashtra | Raigad | Raigad |
| 248 | Maharashtra | Ratnagiri | Ratnagiri |
| 249 | Maharashtra | Sangli | Sangli |
| 250 | Maharashtra | Satara | Satara |
| 251 | Maharashtra | Sindhudurg | Sindhudurg |
| 252 | Maharashtra | Solapur | Solapur |
| 253 | Maharashtra | Thane | Thane |
| 254 | Maharashtra | Wardha | Wardha |
| 255 | Maharashtra | Yavatmal | Yavatmal |

| Sr no | State | Comparable District Units | |
|----------|-----------|---------------------------|---------------------------------------------|
| | | 1990-93 | 2001-04 |
| 256 | Orissa | Balasore | Balasore + Bhadrak + Kendrapara |
| 257 | Orissa | Bolangir | Bolangir + Sonapur |
| 258 | Orissa | Cuttack | Cuttack + Jagatsingpur + Jajpur |
| 259 | Orissa | Dhenkanal | Dhemkanal + Angul |
| 260 | Orissa | Gajapati | Gajapati |
| 261 | Orissa | Ganjam | Ganajm |
| 262 | Orissa | Kalahandi | Kalahandi + Nawapara |
| 263 | Orissa | Keonjhar(Phulbani) | Keonjhar(Phulbani) + Boudh |
| 264 | Orissa | Koraput | Koraput |
| 265 | Orissa | Malkangiri | Malkangiri |
| 266 | Orissa | Mayurbhanj | Mayurbhanj |
| 267 | Orissa | Nawarangpur | Nawarangpur |
| 268 | Orissa | Phulbani | Phulbni |
| 269 | Orissa | Puri | Puri + khurda + Nayagarh |
| 270 | Orissa | Rayagada | Rayagada |
| 271 | Orissa | Sambalpur | Samabalpur + Bargarh + Deogarh + Jharsuguda |
| 272 | Orissa | Sundargarh | Sundargarh |
| 273 | Punjab | Amritsar | Amritsar |
| 274 | Punjab | Bhathinda | Bhathinda + Mansa |
| 275 | Punjab | Faridkot | Faridkot + 83.5% of Moga + Muktsar |
| 276 | Punjab | Fatehgarh Sahib | Fatehgarh Sahib |
| 277 | Punjab | Ferozepur | Ferozepur + 16.5% of Moga |
| 278 | Punjab | Gurdaspur | Gurdaspur |
| 279 | Punjab | Hoshiarpur | Hoshiarpur + 49% of Nawansahar |
| 280 | Punjab | Jalandhar | Jalandhar + 59% of Nawansahar |
| 281 | Punjab | Kapurthala | Kapurthala |
| 282 | Punjab | Ludhiana | Ludhiana |
| 283 | Punjab | Patiala | Patiala |
| 284 | Punjab | Ropar | Ropar |
| 285 | Punjab | Sangrur | Sangrur |
| 286 | Rajasthan | Ajmer | Ajmer |
| 287 | Rajasthan | Alwar | Alwar |
| 288 | Rajasthan | Banswara | Banswara |
| 289 | Rajasthan | Baran | Baran |
| 290 | Rajasthan | Barmer | Barmer |
| 291 | Rajasthan | Bharatpur | Bharatpur |
| 292 | Rajasthan | Bhilwara | Bhilwara |
| 293 | Rajasthan | Bikaner | Bikaner |
| 294 | Rajasthan | Bundi | Bundi |
| 295 | Rajasthan | Chittore | Chittore |
| 296 | Rajasthan | Churu | Churu |
| 297 | Rajasthan | Dausa | Dausa |
| 298 | Rajasthan | Dholpur | Dholpur |
| 299 | Rajasthan | Dungarpur | Dungarpur |
| 300 | Rajasthan | Ganganagar | Ganganagar + Hanumangarh |
| 301 | Rajasthan | Jaipur | Jaipur |
| 302 | Rajasthan | Jaisalmer | Jaisalmer |
| 303 | Rajasthan | Jalore | Jalore |
| 304 | Rajasthan | Jhalawar | Jhalawar |
| 305 | Rajasthan | Jhunjhunu | Jhunjhunu |
| 306 | Rajasthan | Jodhpur | Jodhpur |
| 307 | Rajasthan | Kota | Kota |

| Sr no | State | Comparable District Units | |
|----------|---------------|---------------------------|----------------------------------------------|
| | | 1990-93 | 2001-04 |
| 308 | Rajasthan | Nagaur | Nagaur |
| 309 | Rajasthan | Pali | Pali |
| 310 | Rajasthan | Rajsamand | Rajsamand |
| 311 | Rajasthan | S. Madhopur | Swai Madhopur + Karoli |
| 312 | Rajasthan | Sikar | Sikar |
| 313 | Rajasthan | Sirohi | Sirohi |
| 314 | Rajasthan | Tonk | Tonk |
| 315 | Rajasthan | Udaipur | Udaipur |
| 316 | Tamil nadu | Coimbatore | Coimbatore |
| 317 | Tamil nadu | Cuddalore(s arcot) | Cuddalore(South Arcot) |
| 318 | Tamil nadu | Dharmapuri | Dharmapuri + Krishnagiri |
| 319 | Tamil nadu | Dindigul | Dindigul |
| 320 | Tamil nadu | Erode | Erode |
| 321 | Tamil nadu | Kanyakumari | Kanyakumari |
| 322 | Tamil nadu | Madurai | Madurai + Theni |
| 323 | Tamil nadu | Nagapattinam | Nagapattinam |
| 324 | Tamil nadu | Pudukottai | Pudukottai |
| 325 | Tamil nadu | Ramanathapuram | Ramanathapuram |
| 326 | Tamil nadu | Salem | Salem + Karur + Namakkal |
| 327 | Tamil nadu | Sivagangai | Sivagangai |
| 328 | Tamil nadu | Thanjavur | Thanjavur + Thiruvarur |
| 329 | Tamil nadu | The nilgiris | The nilgiris |
| 330 | Tamil nadu | Thiruvallur (MGR) | Thiruvallur (M.G.chengalpatu) + Kancheepuram |
| 331 | Tamil nadu | Thiruvannamalai | Thiruvannamalai |
| 332 | Tamil nadu | Thoothukudi | Thoothukudi |
| 333 | Tamil nadu | Tiruchirapalli | Tiruchirapalli + Perambalur |
| 334 | Tamil nadu | Tirunelveli | Tirunelveli |
| 335 | Tamil nadu | Vellore | Vellore |
| 336 | Tamil nadu | Virudhunagar | Virudhunagar |
| 337 | Uttar Pradesh | Agra | Agra |
| 338 | Uttar Pradesh | Aligarh | Aligarh + 64.3% Hathras |
| 339 | Uttar Pradesh | Allahabad | Allahabad + Kaushambi |
| 340 | Uttar Pradesh | Azamgarh | Azamgarh + 25% Ambedkar Nagar |
| 341 | Uttar Pradesh | Badaun | Badaun |
| 342 | Uttar Pradesh | Bahraich | Bahraich + Shravasti |
| 343 | Uttar Pradesh | Ballia | Ballia |
| 344 | Uttar Pradesh | Banda | Banda + Chitrakoot |
| 345 | Uttar Pradesh | Barabanki | Barabanki |
| 346 | Uttar Pradesh | Bareilly | Bareilly |
| 347 | Uttar Pradesh | Basti | Basti + 92% Sant Kabir Nagar |
| 348 | Uttar Pradesh | Bijnor | Bijnor |
| 349 | Uttar Pradesh | Bulandshahar | Bulandshahar + 54% Gautam Budha Nagar |
| 350 | Uttar Pradesh | Deoria | Deoria + Kushi Nagar |
| 351 | Uttar Pradesh | Eath | Eath |
| 352 | Uttar Pradesh | Etawah | Etawah + Auraiya |
| 353 | Uttar Pradesh | Faizabad | Faizabad + 75% of Ambedkar Nagar |
| 354 | Uttar Pradesh | Farrukhabad | Farrukhabad + Kannauj |
| 355 | Uttar Pradesh | Fatehpur | Fatehpur |
| 356 | Uttar Pradesh | Ferozabad | Ferozabad |
| 357 | Uttar Pradesh | Ghaziabad | Ghaziabad + 46% of Gautam Budha Nagar |
| 358 | Uttar Pradesh | Ghazipur | Ghazipur |

| Sr no | State | Comparable District Units | |
|----------|---------------|---------------------------|-------------------------------------------|
| | | 1990-93 | 2001-04 |
| 359 | Uttar Pradesh | Gonda | Gonda + Balrampur |
| 360 | Uttar Pradesh | Gorakhpur | Gorakhpur |
| 361 | Uttar Pradesh | Hamirpur | Hamirpur + Mahoba |
| 362 | Uttar Pradesh | Hardoi | Hardoi |
| 363 | Uttar Pradesh | Jalaun | Jalaun |
| 364 | Uttar Pradesh | Jaunpur | Jaunpur |
| 365 | Uttar Pradesh | Jhansi | Jhansi |
| 366 | Uttar Pradesh | Kanpur (c) | Kanpur (c) |
| 367 | Uttar Pradesh | Kanpur (d) | Kanpur (d) |
| 368 | Uttar Pradesh | Kheri | Kheri |
| 369 | Uttar Pradesh | Lalitpur | Lalitpur |
| 370 | Uttar Pradesh | Lucknow | Lucknow |
| 371 | Uttar Pradesh | Maharalganj | Maharalganj |
| 372 | Uttar Pradesh | Mainpuri | Mainpuri |
| 373 | Uttar Pradesh | Mathura | Mathura + 35.7% Hathras |
| 374 | Uttar Pradesh | Mau | Mau |
| 375 | Uttar Pradesh | Meerut | Meerut + Bagpat |
| 376 | Uttar Pradesh | Mirzapur | Mirzapur |
| 377 | Uttar Pradesh | Moradabad | Moradabad + J.B.Phule Nagar |
| 378 | Uttar Pradesh | Muzaffarnagar | Muzaffarnagar |
| 379 | Uttar Pradesh | Pilibhit | Pilibhit |
| 380 | Uttar Pradesh | Pratapgarh | Pratapgarh |
| 381 | Uttar Pradesh | Raibareli | Raibareli |
| 382 | Uttar Pradesh | Rampur | Rampur |
| 383 | Uttar Pradesh | Saharanpur | Saharanpur |
| 384 | Uttar Pradesh | Shahjahanpur | Shahjahanpur |
| 385 | Uttar Pradesh | Siddarthanagar | Siddarthanagar + 8% Sant Kabir Nagar |
| 386 | Uttar Pradesh | Sitapur | Sitapur |
| 387 | Uttar Pradesh | Sonbhadra | Sonbhadra |
| 388 | Uttar Pradesh | Sultanpur | Sultanpur |
| 389 | Uttar Pradesh | Unnao | Unnao |
| 390 | Uttar Pradesh | Varanasi | Varanasi + Chandauli + Sant Rabidas Nagar |
| 391 | Uttranachal | Almora | Almora + Vageshwar |
| 392 | Uttranachal | Chamoli | Chamoli + 48% of Rudraprayag |
| 393 | Uttranachal | Dehradun | Dehradun |
| 394 | Uttranachal | Haridwar | Haridwar |
| 395 | Uttranachal | Nainital | Nainital + Udam Singh Nagar |
| 396 | Uttranachal | Pauri garhwal | Pauri garhwal + 28% of Rudraprayag |
| 397 | Uttranachal | Pithoragarh | Pithoragarh + Champawat |
| 398 | Uttranachal | Tehri garhwal | Tehri garhwal + 24% of Rudraprayag |
| 399 | Uttranachal | Uttar kashi | Uttar kashi |
| 400 | West bengal | 24-parganas(N) | 24-parganas(N) |
| 401 | West bengal | 24-parganas(S) | 24-parganas(S) |
| 402 | West bengal | Bankura | Bankura |
| 403 | West bengal | Birbhum | Birbhum |
| 404 | West bengal | Burdwan | Burdwan |
| 405 | West bengal | Cooch behar | Cooch behar |
| 406 | West bengal | Darjeeling | Darjeeling |
| 407 | West bengal | Hooghly | Hooghly |
| 408 | West bengal | Howrah | Howrah |
| 409 | West bengal | Jalpaiguri | Jalpaiguri |
| 410 | West bengal | Malda | Malda |

| Sr no | State | Comparable District Units | |
|------------------|--------------|----------------------------------|-----------------------------------|
| | | 1990-93 | 2001-04 |
| 411 | West bengal | Midnapore (East) | Midnapore (East) |
| 412 | West bengal | Midnapore (West) | Midnapore (West) |
| 413 | West bengal | Murshidabad | Murshidabad |
| 414 | West bengal | Nadia | Nadia |
| 415 | West bengal | Purulia | Purulia |
| 416 | West bengal | Uttar Dinajpur | Uttar Dinajpur + Dakshin Dinajpur |

Appendix- 3
Intra-State Ranking of Districts Duing 2001-04 by Level of Development

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|-------------------------|-------------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 1 | Andaman &Nikobar Island | Andaman &Nikobar Island | 939739960 | 38000 | 45000 | 26630 | 24730 | 35289 |
| 2 | Andhra Pradesh | W-West Godavari | 20720437837 | 412876 | 636838 | 1164983 | 50186 | 17786 |
| 3 | Andhra Pradesh | East Godavari | 18556894381 | 399797 | 703171 | 1207356 | 46416 | 15370 |
| 4 | Andhra Pradesh | Guntur | 25577167670 | 582288 | 777426 | 1466665 | 43925 | 17439 |
| 5 | Andhra Pradesh | Krishna | 15411255573 | 436500 | 640448 | 1090697 | 35306 | 14130 |
| 6 | Andhra Pradesh | Nizamabad | 7323195485 | 220626 | 325194 | 657799 | 33193 | 11133 |
| 7 | Andhra Pradesh | Karimnagar | 11607499222 | 359603 | 499116 | 1026540 | 32279 | 11307 |
| 8 | Andhra Pradesh | Khammam | 10885746949 | 394083 | 417891 | 895217 | 27623 | 12160 |
| 9 | Andhra Pradesh | Nellore | 8499701609 | 316588 | 350177 | 758330 | 26848 | 11208 |
| 10 | Andhra Pradesh | Warangal | 11958739940 | 456267 | 565203 | 1068502 | 26210 | 11192 |
| 11 | Andhra Pradesh | Visakhapatnam | 7386759296 | 292737 | 372824 | 854539 | 25233 | 8644 |
| 12 | Andhra Pradesh | Chittoor | 8003497163 | 364896 | 408019 | 1162410 | 21934 | 6885 |
| 13 | Andhra Pradesh | Prakasam | 11607633094 | 532022 | 571880 | 1051912 | 21818 | 11035 |
| 14 | Andhra Pradesh | Srikakulam | 6035515796 | 286594 | 387347 | 822348 | 21059 | 7339 |
| 15 | Andhra Pradesh | Vizianagaram | 5844765702 | 303184 | 408097 | 802491 | 19278 | 7283 |
| 16 | Andhra Pradesh | Medak | 8177894816 | 434353 | 540233 | 874377 | 18828 | 9353 |
| 17 | Andhra Pradesh | Cuddapah | 6080173432 | 367380 | 430305 | 738756 | 16550 | 8230 |
| 18 | Andhra Pradesh | Ranga reddy | 4384123439 | 265223 | 287374 | 576390 | 16530 | 7606 |
| 19 | Andhra Pradesh | Kurnool | 13175195158 | 847131 | 928830 | 1192770 | 15553 | 11046 |
| 20 | Andhra Pradesh | Nalgonda | 6870956125 | 460239 | 534751 | 1081104 | 14929 | 6355 |
| 21 | Andhra Pradesh | Adilabad | 7654432440 | 538110 | 559037 | 687714 | 14225 | 11130 |
| 22 | Andhra Pradesh | Mahaboobnagar | 8784792558 | 770910 | 839245 | 1333130 | 11395 | 6590 |
| 23 | Andhra Pradesh | Anantapur | 8038004189 | 1006088 | 1043713 | 1205402 | 7989 | 6668 |
| 24 | Arunachal Pradesh | Dipnag Valley | 360367209 | 9691 | 16475 | 15597 | 37186 | 23105 |
| 25 | Arunachal Pradesh | East Siang | 621711405 | 25344 | 33611 | 19477 | 24531 | 31920 |
| 26 | Arunachal Pradesh | Lohit | 472756040 | 20057 | 36184 | 38710 | 23571 | 12213 |
| 27 | Arunachal Pradesh | Papumpare | 125527160 | 6498 | 14037 | 12255 | 19318 | 10243 |
| 28 | Arunachal Pradesh | Tawang | 77906914 | 4148 | 7018 | 9968 | 18782 | 7816 |
| 29 | Arunachal Pradesh | Changlang | 277876966 | 15669 | 21962 | 45208 | 17734 | 6147 |
| 30 | Arunachal Pradesh | East kameng | 130166115 | 7699 | 12653 | 19100 | 16907 | 6815 |
| 31 | Arunachal Pradesh | Lower Subabsiri | 262051409 | 18208 | 28371 | 34044 | 14392 | 7697 |
| 32 | Arunachal Pradesh | West Kameng | 71095256 | 4981 | 7461 | 13539 | 14273 | 5251 |
| 33 | Arunachal Pradesh | Upper Siang | 77702481 | 5716 | 9225 | 11544 | 13594 | 6731 |
| 34 | Arunachal Pradesh | West Siang | 251292395 | 24367 | 28951 | 27965 | 10313 | 8986 |
| 35 | Arunachal Pradesh | Upper Subansiri | 79141997 | 7923 | 9395 | 15747 | 9989 | 5026 |
| 36 | Arunachal Pradesh | Tirap | 136369826 | 13893 | 19004 | 37237 | 9816 | 3662 |
| 37 | Assam | Tinsukia | 5594188667 | 99450 | 141054 | 175405 | 56251 | 31893 |
| 38 | Assam | Dibrugarh | 7254930876 | 137977 | 178293 | 174905 | 52581 | 41479 |
| 39 | Assam | Jorhat | 4506105608 | 119933 | 171044 | 191220 | 37572 | 23565 |
| 40 | Assam | Golaghat | 4002106109 | 117349 | 150561 | 226008 | 34104 | 17708 |
| 41 | Assam | Sonitpur | 5605754005 | 165855 | 244006 | 296393 | 33799 | 18913 |
| 42 | Assam | Sivasagar | 4629541472 | 137619 | 152995 | 186140 | 33640 | 24871 |
| 43 | Assam | Karimganj | 2244459879 | 68683 | 96269 | 119865 | 32679 | 18725 |
| 44 | Assam | Cachar | 3711539792 | 115489 | 146219 | 159754 | 32138 | 23233 |
| 45 | Assam | Hailakandi | 1450878549 | 46027 | 64878 | 88802 | 31522 | 16338 |
| 46 | Assam | N Kachar Hills | 829876063 | 28316 | 36095 | 38109 | 29308 | 21776 |
| 47 | Assam | Nagaon | 6124191431 | 234633 | 354801 | 424849 | 26101 | 14415 |
| 48 | Assam | Darrang | 4888837001 | 205111 | 294319 | 332458 | 23835 | 14705 |
| 49 | Assam | Dhubri | 3095052736 | 143797 | 220427 | 287460 | 21524 | 10767 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|-------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 50 | Assam | Karbi Anglong | 2618403267 | 126206 | 194316 | 241293 | 20747 | 10852 |
| 51 | Assam | Lakhimpur | 2062946333 | 99930 | 171929 | 374951 | 20644 | 5502 |
| 52 | Assam | Kamrup | 3648251828 | 179913 | 251388 | 282724 | 20278 | 12904 |
| 53 | Assam | Goalpara | 1550814339 | 79264 | 108467 | 150862 | 19565 | 10280 |
| 54 | Assam | Kokrajhar | 1649442910 | 84876 | 135574 | 226858 | 19434 | 7271 |
| 55 | Assam | Bongaigaon | 1767278929 | 94908 | 156397 | 166352 | 18621 | 10624 |
| 56 | Assam | Barpeta | 3321110452 | 180112 | 277095 | 293531 | 18439 | 11314 |
| 57 | Assam | Marigaon | 1683233409 | 92422 | 124352 | 191759 | 18212 | 8778 |
| 58 | Assam | Dhemaji | 1115187001 | 63049 | 102097 | 204376 | 17688 | 5457 |
| 59 | Assam | Nalbari | 2560697130 | 153545 | 211064 | 197740 | 16677 | 12950 |
| 60 | Bihar | Rohtas | 6214117712 | 254293 | 361554 | 549024 | 24437 | 11318 |
| 61 | Bihar | Bhabhua | 3699289997 | 153365 | 199726 | 366318 | 24121 | 10099 |
| 62 | Bihar | Katihar | 3829664956 | 162389 | 270964 | 750957 | 23583 | 5100 |
| 63 | Bihar | Patna | 4425878561 | 206746 | 257732 | 788261 | 21407 | 5615 |
| 64 | Bihar | Aurangabad | 4023529796 | 190147 | 282277 | 533821 | 21160 | 7537 |
| 65 | Bihar | Gopalganj | 3196742272 | 151384 | 235041 | 523384 | 21117 | 6108 |
| 66 | Bihar | Madhupura | 2761370130 | 133037 | 220901 | 613353 | 20756 | 4502 |
| 67 | Bihar | Chamaparan(West) | 5768249549 | 280367 | 375512 | 972093 | 20574 | 5934 |
| 68 | Bihar | Vaishali | 2607711524 | 128086 | 195446 | 570470 | 20359 | 4571 |
| 69 | Bihar | Bhojpur | 3781960534 | 185845 | 237120 | 486531 | 20350 | 7773 |
| 70 | Bihar | Sahasra | 2214101634 | 111380 | 204843 | 497610 | 19879 | 4449 |
| 71 | Bihar | Supaul | 3024771330 | 153456 | 260819 | 656923 | 19711 | 4604 |
| 72 | Bihar | Sitamari | 2268780215 | 122051 | 209748 | 677387 | 18589 | 3349 |
| 73 | Bihar | Siwan | 3013960157 | 164041 | 250433 | 548957 | 18373 | 5490 |
| 74 | Bihar | Khagaria | 1562263635 | 85435 | 134827 | 376526 | 18286 | 4149 |
| 75 | Bihar | Buxar | 2518038073 | 138795 | 149001 | 311822 | 18142 | 8075 |
| 76 | Bihar | Araria | 3226107268 | 179529 | 282112 | 744186 | 17970 | 4335 |
| 77 | Bihar | Begusarai | 2122818940 | 118574 | 176201 | 495529 | 17903 | 4284 |
| 78 | Bihar | Sivhar | 460130290 | 25940 | 45652 | 142116 | 17738 | 3238 |
| 79 | Bihar | Jahanabad | 1848245957 | 104543 | 138733 | 466768 | 17679 | 3960 |
| 80 | Bihar | Samastipur | 3209172455 | 185374 | 250849 | 838141 | 17312 | 3829 |
| 81 | Bihar | Nawadha | 1894631894 | 111387 | 149217 | 545267 | 17009 | 3475 |
| 82 | Bihar | Muzafarpur | 3478266973 | 205774 | 326989 | 811124 | 16903 | 4288 |
| 83 | Bihar | Gaya | 3317614321 | 197575 | 265566 | 1001463 | 16792 | 3313 |
| 84 | Bihar | Purnea | 3620207131 | 218838 | 307952 | 830832 | 16543 | 4357 |
| 85 | Bihar | Kishanganj | 2069246424 | 129930 | 188029 | 351114 | 15926 | 5893 |
| 86 | Bihar | Sheikhpura | 618801364 | 41206 | 52884 | 155168 | 15017 | 3988 |
| 87 | Bihar | Champanan(east) | 4407072589 | 294198 | 344353 | 1058377 | 14980 | 4164 |
| 88 | Bihar | Monghyr | 651336594 | 43640 | 61175 | 192321 | 14925 | 3387 |
| 89 | Bihar | Nalanda | 2694326533 | 180618 | 221632 | 703450 | 14917 | 3830 |
| 90 | Bihar | Saran | 2837269221 | 197002 | 238965 | 631843 | 14402 | 4490 |
| 91 | Bihar | Bhagalpur | 2056720848 | 146996 | 177249 | 584729 | 13992 | 3517 |
| 92 | Bihar | Madhubani | 3026130052 | 225953 | 318838 | 1025155 | 13393 | 2952 |
| 93 | Bihar | Lakhisarai | 873364686 | 69188 | 78201 | 223584 | 12623 | 3906 |
| 94 | Bihar | Banka | 1813510347 | 154128 | 161389 | 545772 | 11766 | 3323 |
| 95 | Bihar | Jamui | 813664993 | 77431 | 84002 | 375390 | 10508 | 2168 |
| 96 | Bihar | Darbhanga | 1796194726 | 171731 | 196287 | 774226 | 10459 | 2320 |
| 97 | Chattisgarh | Dhamtari | 1996004586 | 133883 | 195902 | 281106 | 14909 | 7101 |
| 98 | Chattisgarh | Janjgir | 3255777168 | 261975 | 301250 | 479274 | 12428 | 6793 |
| 99 | Chattisgarh | Durg | 6630957987 | 546650 | 733267 | 749675 | 12130 | 8845 |
| 100 | Chattisgarh | Bilaspur | 4393339805 | 367330 | 468678 | 627876 | 11960 | 6997 |
| 101 | Chattisgarh | Raipur | 5869298948 | 549111 | 654739 | 794468 | 10689 | 7388 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|----------------------|----------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 102 | Chattisgarh | U.B. Kanker | 2041575049 | 207501 | 219929 | 298250 | 9839 | 6845 |
| 103 | Chattisgarh | Rajnandgaon | 3537456722 | 359700 | 443541 | 518454 | 9834 | 6823 |
| 104 | Chattisgarh | Raigarh | 2647945535 | 280463 | 307954 | 480312 | 9441 | 5513 |
| 105 | Chattisgarh | Kabirdham | 1732584768 | 184811 | 225572 | 254606 | 9375 | 6805 |
| 106 | Chattisgarh | Mahasamund | 2496931893 | 266610 | 286403 | 347282 | 9365 | 7190 |
| 107 | Chattisgarh | Sarguja | 4288995813 | 485884 | 561742 | 855113 | 8827 | 5016 |
| 108 | Chattisgarh | Korba | 1168987211 | 132934 | 143047 | 278660 | 8794 | 4195 |
| 109 | Chattisgarh | Jagdalspur | 3020629202 | 351523 | 360221 | 553172 | 8593 | 5461 |
| 110 | Chattisgarh | Koriya | 891300932 | 106361 | 118667 | 201309 | 8380 | 4428 |
| 111 | Chattisgarh | Jashpur | 1989922265 | 251687 | 266820 | 349515 | 7906 | 5693 |
| 112 | Chattisgarh | D.B. Dantewara | 2089065926 | 291102 | 295163 | 336125 | 7176 | 6215 |
| 113 | Dadra & Nagar Haveli | Dadra & Nagar Haveli | 279564315 | 23000 | 30000 | 54185 | 12155 | 5159 |
| 114 | Daman & Diu | All districts | 77988374 | 4000 | 5000 | 5357 | 19497 | 14558 |
| 115 | Goa | Goa South | 1833407775 | 55639 | 65750 | 32525 | 32952 | 56369 |
| 116 | Goa | Goa North | 2458987497 | 85131 | 102884 | 54288 | 28885 | 45295 |
| 117 | Gujarat | Navsari | 6599411139 | 147233 | 174812 | 308641 | 44823 | 21382 |
| 118 | Gujarat | Porbandar | 3642579856 | 113233 | 128267 | 109493 | 32169 | 33268 |
| 119 | Gujarat | Junagadh | 16247673537 | 525233 | 601724 | 642025 | 30934 | 25307 |
| 120 | Gujarat | Surat | 12802611590 | 429267 | 486100 | 739391 | 29824 | 17315 |
| 121 | Gujarat | Narmada | 3087979365 | 109533 | 113840 | 205130 | 28192 | 15054 |
| 122 | Gujarat | Gandhinagar | 3847249619 | 159567 | 199844 | 222653 | 24111 | 17279 |
| 123 | Gujarat | Jamnagar | 13920907305 | 600900 | 636951 | 346406 | 23167 | 40187 |
| 124 | Gujarat | Banaskantha | 16866932120 | 734833 | 1063455 | 725724 | 22953 | 23242 |
| 125 | Gujarat | Valsad | 3448787607 | 161300 | 180828 | 339232 | 21381 | 10166 |
| 126 | Gujarat | Amreli | 11559039822 | 541300 | 565273 | 382745 | 21354 | 30200 |
| 127 | Gujarat | Bhavnagar | 11633606633 | 550400 | 610696 | 424695 | 21137 | 27393 |
| 128 | Gujarat | Kheda | 6443275627 | 305867 | 366092 | 533742 | 21066 | 12072 |
| 129 | Gujarat | Rajkot | 15508897041 | 739900 | 780768 | 440861 | 20961 | 35179 |
| 130 | Gujarat | Bharuch | 6649963564 | 329800 | 339072 | 314338 | 20164 | 21155 |
| 131 | Gujarat | Anand | 3222171751 | 162867 | 224366 | 444083 | 19784 | 7256 |
| 132 | Gujarat | Mehsana | 6499731084 | 346800 | 462853 | 397185 | 18742 | 16364 |
| 133 | Gujarat | Vadodara | 7718774634 | 516600 | 570371 | 808316 | 14941 | 9549 |
| 134 | Gujarat | Sabarkantha | 6112546801 | 439100 | 520614 | 592504 | 13921 | 10316 |
| 135 | Gujarat | Patan | 5004033755 | 384933 | 441390 | 340850 | 13000 | 14681 |
| 136 | Gujarat | Surendranagar | 8138251082 | 687000 | 723873 | 402429 | 11846 | 20223 |
| 137 | Gujarat | Kutch | 6996890630 | 596333 | 597390 | 193415 | 11733 | 36176 |
| 138 | Gujarat | Ahmedabad | 5655260632 | 505733 | 560022 | 365381 | 11182 | 15478 |
| 139 | Gujarat | Dahod | 2038907335 | 196833 | 218860 | 674136 | 10359 | 3024 |
| 140 | Gujarat | Panchmahal | 2748579535 | 271600 | 295993 | 760944 | 10120 | 3612 |
| 141 | Gujarat | Dang | 480413095 | 56233 | 57455 | 79938 | 8543 | 6010 |
| 142 | Haryana | Kurukshetra | 7659321733 | 149990 | 265917 | 143913 | 51065 | 53222 |
| 143 | Haryana | Karnal | 9948717351 | 194918 | 382661 | 229994 | 51041 | 43256 |
| 144 | Haryana | Panipat | 4544742963 | 91416 | 184539 | 145252 | 49715 | 31289 |
| 145 | Haryana | Kaithal | 9435592303 | 197177 | 383972 | 234773 | 47853 | 40190 |
| 146 | Haryana | Fatehabad | 9901198012 | 223753 | 406774 | 245298 | 44251 | 40364 |
| 147 | Haryana | Yamunanagar | 5362688558 | 124795 | 196083 | 104778 | 42972 | 51181 |
| 148 | Haryana | Hisar | 12708939906 | 308459 | 600264 | 392351 | 41201 | 32392 |
| 149 | Haryana | Sirsa | 15724718806 | 383384 | 672562 | 291231 | 41016 | 53994 |
| 150 | Haryana | Jind | 9823072537 | 241107 | 450789 | 348675 | 40742 | 28173 |
| 151 | Haryana | Sonipat | 6212522865 | 159086 | 276213 | 278284 | 39051 | 22324 |
| 152 | Haryana | Faridabad | 5719303308 | 146986 | 260954 | 281320 | 38911 | 20330 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|------------------|----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 153 | Haryana | Ambala | 5144660536 | 133391 | 201624 | 97022 | 38568 | 53026 |
| 154 | Haryana | Panchkula | 789831689 | 25275 | 45106 | 40743 | 31250 | 19386 |
| 155 | Haryana | Gurgaon | 5340502400 | 172128 | 292816 | 254522 | 31026 | 20982 |
| 156 | Haryana | Rohtak | 4176237412 | 141034 | 222799 | 190449 | 29612 | 21928 |
| 157 | Haryana | Mahendragarh | 4181551419 | 141980 | 253901 | 232241 | 29452 | 18005 |
| 158 | Haryana | Rewari | 3683510283 | 126516 | 192008 | 193713 | 29115 | 19015 |
| 159 | Haryana | Bhiwani | 11515011383 | 401948 | 723805 | 391046 | 28648 | 29447 |
| 160 | Haryana | Jhajjar | 4208262394 | 156005 | 233216 | 226629 | 26975 | 18569 |
| 161 | Himachal Pradesh | Sirmaur | 1296351182 | 40621 | 74778 | 167626 | 31913 | 7734 |
| 162 | Himachal Pradesh | Mandi | 1962212053 | 86839 | 158258 | 336722 | 22596 | 5827 |
| 163 | Himachal Pradesh | Lahul Spiti | 69532331 | 3311 | 3395 | 11537 | 21000 | 6027 |
| 164 | Himachal Pradesh | Solan | 799706942 | 38766 | 62884 | 150156 | 20629 | 5326 |
| 165 | Himachal Pradesh | Bilaspur | 598122906 | 30138 | 57534 | 117567 | 19846 | 5088 |
| 166 | Himachal Pradesh | Una | 792665623 | 40797 | 72202 | 126714 | 19430 | 6256 |
| 167 | Himachal Pradesh | Kullu | 685877053 | 36900 | 60982 | 170748 | 18588 | 4017 |
| 168 | Himachal Pradesh | Hamirpur | 645447320 | 35244 | 70144 | 147167 | 18314 | 4386 |
| 169 | Himachal Pradesh | Kangra | 2120041589 | 116628 | 219058 | 373639 | 18178 | 5674 |
| 170 | Himachal Pradesh | Shimla | 1216680037 | 68287 | 95439 | 248112 | 17817 | 4904 |
| 171 | Himachal Pradesh | Chamba | 716540204 | 42156 | 66961 | 170034 | 16997 | 4214 |
| 172 | Himachal Pradesh | Kinnaur | 59940718 | 7424 | 8840 | 32106 | 8074 | 1867 |
| 173 | Jammu & Kashmir | Srinagar | 485658163 | 22680 | 28631 | 46704 | 21414 | 10399 |
| 174 | Jammu & Kashmir | Jammu | 2267854719 | 112210 | 201464 | 162306 | 20211 | 13973 |
| 175 | Jammu & Kashmir | Rajouri | 977379714 | 51865 | 96227 | 151551 | 18845 | 6449 |
| 176 | Jammu & Kashmir | Kathua | 1126898788 | 62689 | 123267 | 115456 | 17976 | 9760 |
| 177 | Jammu & Kashmir | Poonch | 493557043 | 27555 | 46158 | 118044 | 17912 | 4181 |
| 178 | Jammu & Kashmir | Pulwama | 934543039 | 55207 | 81480 | 140828 | 16928 | 6636 |
| 179 | Jammu & Kashmir | Anantnag | 1084214566 | 77311 | 99906 | 207013 | 14024 | 5237 |
| 180 | Jammu & Kashmir | Budgam | 697899846 | 52680 | 57131 | 169426 | 13248 | 4119 |
| 181 | Jammu & Kashmir | Udhampur | 897158299 | 70175 | 113608 | 235919 | 12785 | 3803 |
| 182 | Jammu & Kashmir | Baramulla | 1038158983 | 83021 | 95770 | 103681 | 12505 | 10013 |
| 183 | Jammu & Kashmir | Kargil | 79545227 | 9565 | 10445 | 26161 | 8316 | 3041 |
| 184 | Jammu & Kashmir | Doda | 506501047 | 63934 | 85044 | 218655 | 7922 | 2316 |
| 185 | Jammu & Kashmir | Kupwara | 344574124 | 43558 | 45695 | 127800 | 7911 | 2696 |
| 186 | Jammu & Kashmir | Leh | 64206668 | 10166 | 10475 | 24689 | 6316 | 2601 |
| 187 | Jharkhand | Koderma | 368632098 | 17658 | 24228 | 110062 | 20876 | 3349 |
| 188 | Jharkhand | East Singhbhum | 1777763337 | 91274 | 176269 | 318835 | 19477 | 5576 |
| 189 | Jharkhand | Godda | 1348599166 | 77180 | 83810 | 342060 | 17473 | 3943 |
| 190 | Jharkhand | Chatra | 797228032 | 47090 | 50920 | 245707 | 16930 | 3245 |
| 191 | Jharkhand | Garhwa | 1017002773 | 63097 | 90149 | 341535 | 16118 | 2978 |
| 192 | Jharkhand | Jamtara | 756458073 | 47713 | 49483 | 0 | 15854 | 3948 |
| 193 | Jharkhand | Latehar | 701460872 | 45428 | 56073 | 0 | 15441 | 3483 |
| 194 | Jharkhand | Dumka | 1761033772 | 116813 | 121148 | 637637 | 15076 | 2948 |
| 195 | Jharkhand | Palamu | 1506752272 | 101115 | 124807 | 634040 | 14901 | 3483 |
| 196 | Jharkhand | Giridh | 1277407724 | 85858 | 117443 | 479829 | 14878 | 2662 |
| 197 | Jharkhand | Hazaribag | 1443385436 | 97953 | 109615 | 488404 | 14735 | 2955 |
| 198 | Jharkhand | Sahibganj | 677281202 | 46108 | 54482 | 248024 | 14689 | 2731 |
| 199 | Jharkhand | Bokaro | 524850544 | 36264 | 50692 | 227877 | 14473 | 2303 |
| 200 | Jharkhand | Pakur | 851818027 | 61312 | 69148 | 207489 | 13893 | 4105 |
| 201 | Jharkhand | Dhanbad | 493113580 | 37749 | 43809 | 157735 | 13063 | 3126 |
| 202 | Jharkhand | Deoghar | 947296124 | 72578 | 76316 | 279999 | 13052 | 3383 |
| 203 | Jharkhand | Seraikela | 815799842 | 66223 | 76300 | 0 | 12319 | 3022 |
| 204 | Jharkhand | Lohargada | 565335423 | 46169 | 51019 | 124263 | 12245 | 4550 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|----------------|--------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 205 | Jharkhand | Simdega | 1055867243 | 92485 | 97995 | 0 | 11417 | 6102 |
| 206 | Jharkhand | Gumla | 1753848651 | 171757 | 181991 | 574885 | 10211 | 6102 |
| 207 | Jharkhand | Ranchi | 2438985409 | 251638 | 270376 | 683245 | 9692 | 3570 |
| 208 | Jharkhand | West Singhbhum | 1204230662 | 134452 | 154913 | 668548 | 8957 | 3022 |
| 209 | Karnataka | Kodagu | 7118069140 | 147135 | 148242 | 31179 | 48378 | 228297 |
| 210 | Karnataka | Dakshina Kannada | 3326139516 | 133765 | 161917 | 91575 | 24866 | 36321 |
| 211 | Karnataka | Chamarajanagar | 3853980786 | 155063 | 194877 | 319349 | 24854 | 12068 |
| 212 | Karnataka | Mandya | 5126437928 | 212835 | 249766 | 619920 | 24086 | 8270 |
| 213 | Karnataka | Chickmagalur | 6500307738 | 279950 | 297398 | 257736 | 23220 | 25221 |
| 214 | Karnataka | Udupi | 2294436605 | 100062 | 125400 | 184434 | 22930 | 12440 |
| 215 | Karnataka | Shimoga | 4315031855 | 215618 | 239689 | 443526 | 20012 | 9729 |
| 216 | Karnataka | Mysore | 6853191615 | 352829 | 462342 | 649803 | 19424 | 10547 |
| 217 | Karnataka | Davanagere | 6230715705 | 356479 | 413213 | 514822 | 17478 | 12103 |
| 218 | Karnataka | Hassan | 6411789322 | 376458 | 437475 | 604542 | 17032 | 10606 |
| 219 | Karnataka | Belgaum | 12048197794 | 732946 | 893204 | 1295798 | 16438 | 9298 |
| 220 | Karnataka | Uttara Kannada | 1646266530 | 108863 | 118988 | 228071 | 15122 | 7218 |
| 221 | Karnataka | Bagalkote | 6212410325 | 422694 | 458378 | 470447 | 14697 | 13205 |
| 222 | Karnataka | Bellary | 6220961719 | 426278 | 493684 | 616307 | 14594 | 10094 |
| 223 | Karnataka | Chitradurga | 4834874442 | 419078 | 480755 | 520588 | 11537 | 9287 |
| 224 | Karnataka | Bangalore Rural | 3325283946 | 289586 | 307406 | 553122 | 11483 | 6012 |
| 225 | Karnataka | Kolar | 3610270971 | 323347 | 335000 | 792167 | 11165 | 4557 |
| 226 | Karnataka | Bangalore Urban | 819158560 | 73484 | 82070 | 147057 | 11147 | 5570 |
| 227 | Karnataka | Koppal | 3590437576 | 326771 | 418252 | 405069 | 10988 | 8864 |
| 228 | Karnataka | Tumkur | 5810343264 | 559207 | 599490 | 917354 | 10390 | 6334 |
| 229 | Karnataka | Bidar | 3839936847 | 372238 | 452153 | 349772 | 10316 | 10978 |
| 230 | Karnataka | Haveri | 3497373380 | 351826 | 444549 | 496368 | 9941 | 7046 |
| 231 | Karnataka | Raichur | 5283598303 | 553161 | 614547 | 533008 | 9552 | 9913 |
| 232 | Karnataka | Gulbarga | 10241201877 | 1170079 | 1368501 | 908970 | 8753 | 11267 |
| 233 | Karnataka | Bijapur | 5345771231 | 728544 | 819661 | 508838 | 7338 | 10506 |
| 234 | Karnataka | Dharwar | 2154165399 | 328778 | 481810 | 365386 | 6552 | 5896 |
| 235 | Karnataka | Gadag | 1841717068 | 388166 | 451779 | 320066 | 4745 | 5754 |
| 236 | Kerala | Idukki | 15886493479 | 227853 | 281730 | 235549 | 69723 | 67445 |
| 237 | Kerala | Wayanad | 8000078387 | 116321 | 202831 | 146520 | 68776 | 54601 |
| 238 | Kerala | Kollam | 7082133364 | 141312 | 195303 | 177887 | 50117 | 39813 |
| 239 | Kerala | Pathanamthitta | 4436859930 | 91521 | 116132 | 122256 | 48479 | 36292 |
| 240 | Kerala | Kottayam | 8111569902 | 171712 | 218485 | 135041 | 47239 | 60067 |
| 241 | Kerala | Thiruvananthapuram | 6183816547 | 142459 | 188864 | 215767 | 43408 | 28660 |
| 242 | Kerala | Kozhikode | 6604150626 | 159894 | 227058 | 93016 | 41303 | 71000 |
| 243 | Kerala | Malappuram | 7988439483 | 198614 | 270626 | 212908 | 40221 | 37521 |
| 244 | Kerala | Ernakulam | 6592715487 | 166277 | 215071 | 147469 | 39649 | 44706 |
| 245 | Kerala | Thrissur | 5623834827 | 142428 | 194403 | 161278 | 39485 | 34870 |
| 246 | Kerala | Palakkad | 7957748856 | 202925 | 319993 | 404778 | 39215 | 19660 |
| 247 | Kerala | Kannur | 7461417838 | 201331 | 263153 | 151852 | 37060 | 49136 |
| 248 | Kerala | Kasaragod | 4919505388 | 132964 | 152030 | 61814 | 36999 | 79586 |
| 249 | Kerala | Alappuzha | 2750898242 | 94110 | 126684 | 127869 | 29231 | 21513 |
| 250 | Lakshadweep | All districts | 106717617 | 2669 | 2800 | 5781 | 39984 | 18460 |
| 251 | Madhya Pradesh | Harda | 4082880690 | 169915 | 290472 | 171214 | 24029 | 23847 |
| 252 | Madhya Pradesh | Hoshangabad | 7016180703 | 294835 | 492867 | 245062 | 23797 | 28630 |
| 253 | Madhya Pradesh | Narsinghpur | 6592997594 | 301016 | 402859 | 309809 | 21903 | 21281 |
| 254 | Madhya Pradesh | Indore | 5420573904 | 255497 | 399231 | 282149 | 21216 | 19212 |
| 255 | Madhya Pradesh | Sehore | 7724569518 | 379981 | 564937 | 367632 | 20329 | 21012 |
| 256 | Madhya Pradesh | Dewas | 7718986649 | 382380 | 542701 | 446274 | 20187 | 17297 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|----------------|---------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 257 | Madhya Pradesh | Neemach | 3362318515 | 188310 | 240626 | 262399 | 17855 | 12814 |
| 258 | Madhya Pradesh | Morena | 4564733418 | 257322 | 314826 | 403310 | 17739 | 11318 |
| 259 | Madhya Pradesh | Sheopur kalan | 2065266241 | 117745 | 146616 | 186660 | 17540 | 11064 |
| 260 | Madhya Pradesh | Tikamgarh | 4388706521 | 253257 | 383642 | 461859 | 17329 | 9502 |
| 261 | Madhya Pradesh | Gwalior | 3341249759 | 194696 | 238647 | 213751 | 17161 | 15632 |
| 262 | Madhya Pradesh | Bhopal | 2535224538 | 152259 | 208906 | 135531 | 16651 | 18706 |
| 263 | Madhya Pradesh | Datia | 3234056830 | 194323 | 222471 | 247266 | 16643 | 13079 |
| 264 | Madhya Pradesh | Khandwa | 6168062185 | 394733 | 470779 | 565262 | 15626 | 11455 |
| 265 | Madhya Pradesh | Shivpuri | 5498189851 | 366192 | 465610 | 541072 | 15015 | 10162 |
| 266 | Madhya Pradesh | Bhind | 4822396371 | 323814 | 352516 | 380268 | 14892 | 12682 |
| 267 | Madhya Pradesh | Ratlam | 4815960794 | 328168 | 405694 | 409220 | 14675 | 11769 |
| 268 | Madhya Pradesh | Raisen | 5998657101 | 429224 | 506814 | 295076 | 13976 | 20329 |
| 269 | Madhya Pradesh | Chhindwara | 6518051845 | 477866 | 566928 | 580004 | 13640 | 11238 |
| 270 | Madhya Pradesh | Dhar | 6852026565 | 506202 | 661814 | 663603 | 13536 | 10325 |
| 271 | Madhya Pradesh | Ujjain | 6564121658 | 485551 | 674351 | 511249 | 13519 | 12839 |
| 272 | Madhya Pradesh | Vidisha | 7122775009 | 536940 | 660897 | 336850 | 13265 | 21145 |
| 273 | Madhya Pradesh | Jabalpur | 3568545985 | 271676 | 365031 | 321076 | 13135 | 11114 |
| 274 | Madhya Pradesh | Mandsaur | 4653162516 | 354946 | 439032 | 457223 | 13109 | 10177 |
| 275 | Madhya Pradesh | Shajapur | 5841237723 | 448058 | 593894 | 511666 | 13037 | 11416 |
| 276 | Madhya Pradesh | Balaghat | 3405369509 | 274929 | 344377 | 570241 | 12386 | 5972 |
| 277 | Madhya Pradesh | Chhatarpur | 4563651000 | 377575 | 465993 | 446854 | 12087 | 10213 |
| 278 | Madhya Pradesh | Betul | 4721006655 | 399650 | 521745 | 489917 | 11813 | 9636 |
| 279 | Madhya Pradesh | Rajgarh | 4786332563 | 415685 | 526588 | 512898 | 11514 | 9332 |
| 280 | Madhya Pradesh | Ashoknagar | 1159545633 | 101541 | 120900 | 76847 | 11419 | 12450 |
| 281 | Madhya Pradesh | Rewa | 4127069160 | 369826 | 499276 | 676184 | 11159 | 6103 |
| 282 | Madhya Pradesh | Seoni | 4044741454 | 365686 | 461729 | 473329 | 11061 | 8545 |
| 283 | Madhya Pradesh | Sagar | 5724804725 | 529907 | 693319 | 439285 | 10803 | 13032 |
| 284 | Madhya Pradesh | Guna | 5475019107 | 509296 | 609801 | 439697 | 10750 | 12450 |
| 285 | Madhya Pradesh | Mandla | 2305991531 | 217295 | 276445 | 395655 | 10612 | 5828 |
| 286 | Madhya Pradesh | Satna | 3788647427 | 358151 | 471103 | 491683 | 10578 | 7705 |
| 287 | Madhya Pradesh | Damoh | 3176939875 | 306716 | 382551 | 279645 | 10358 | 11361 |
| 288 | Madhya Pradesh | Khargone | 3811797208 | 409055 | 462656 | 574110 | 9319 | 6639 |
| 289 | Madhya Pradesh | Burhanpur | 307240449 | 34615 | 38923 | 0 | 8876 | 11455 |
| 290 | Madhya Pradesh | Katni | 1699300133 | 196107 | 258786 | 280179 | 8665 | 6065 |
| 291 | Madhya Pradesh | Barwani | 2008663731 | 232344 | 261792 | 442397 | 8645 | 4540 |
| 292 | Madhya Pradesh | Panna | 2041497950 | 243196 | 279421 | 293432 | 8394 | 6957 |
| 293 | Madhya Pradesh | Sidhi | 3015192512 | 360006 | 487977 | 622693 | 8375 | 4842 |
| 294 | Madhya Pradesh | Jhabua | 2836749280 | 358856 | 396312 | 639343 | 7905 | 4437 |
| 295 | Madhya Pradesh | Dindori | 1515630911 | 204006 | 266271 | 299131 | 7429 | 5067 |
| 296 | Madhya Pradesh | Shahdol | 1929782989 | 283088 | 328736 | 506275 | 6817 | 3812 |
| 297 | Madhya Pradesh | Umaria | 705652747 | 107748 | 138673 | 167749 | 6549 | 4496 |
| 298 | Madhya Pradesh | Anupur | 346364546 | 53875 | 64508 | | 6429 | 4496 |
| 299 | Maharashtra | Kolhapur | 19559612941 | 427733 | 744300 | 979419 | 45729 | 19971 |
| 300 | Maharashtra | Jalgaon | 34209857279 | 852133 | 1325300 | 1144428 | 40146 | 29893 |
| 301 | Maharashtra | Sindhudurg | 3182661353 | 140300 | 159000 | 271915 | 22685 | 11705 |
| 302 | Maharashtra | Hingoli | 7325709577 | 329500 | 521800 | 391924 | 22233 | 18692 |
| 303 | Maharashtra | Raigad | 4128764606 | 188500 | 215500 | 457840 | 21903 | 9018 |
| 304 | Maharashtra | Ratnagiri | 4461465258 | 244900 | 255600 | 514982 | 18217 | 8663 |
| 305 | Maharashtra | Thane | 4182233310 | 244600 | 260600 | 718322 | 17098 | 5822 |
| 306 | Maharashtra | Washim | 6464767029 | 379533 | 574500 | 392908 | 17033 | 16454 |
| 307 | Maharashtra | Satara | 9345963367 | 556700 | 701900 | 929278 | 16788 | 10057 |
| 308 | Maharashtra | Parbhani | 7937277248 | 489967 | 825600 | 496852 | 16200 | 15975 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|-------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 309 | Maharashtra | Wardha | 5305933477 | 365567 | 384100 | 388813 | 14514 | 13646 |
| 310 | Maharashtra | Amravati | 10651781171 | 750067 | 1031100 | 793250 | 14201 | 13428 |
| 311 | Maharashtra | Nanded | 10018987223 | 706167 | 822500 | 912158 | 14188 | 10984 |
| 312 | Maharashtra | Buldhana | 9574572274 | 686333 | 851800 | 840424 | 13950 | 11393 |
| 313 | Maharashtra | Nandurbar | 4017860724 | 296367 | 325300 | 503385 | 13557 | 7982 |
| 314 | Maharashtra | Akola | 5753938721 | 436867 | 547200 | 449369 | 13171 | 12804 |
| 315 | Maharashtra | Bhandara | 4672915598 | 364233 | 434800 | 390786 | 12829 | 11958 |
| 316 | Maharashtra | Sangli | 7541867980 | 591667 | 690700 | 866868 | 12747 | 8700 |
| 317 | Maharashtra | Nagpur | 6757289169 | 547267 | 591900 | 605432 | 12347 | 11161 |
| 318 | Maharashtra | Gondia | 2384276595 | 198000 | 240000 | 405072 | 12042 | 5886 |
| 319 | Maharashtra | Yavatmal | 10217151753 | 849300 | 977400 | 891894 | 12030 | 11456 |
| 320 | Maharashtra | Pune | 11448124900 | 962500 | 1169400 | 1239962 | 11894 | 9233 |
| 321 | Maharashtra | Latur | 6069763177 | 524667 | 726400 | 631623 | 11569 | 9610 |
| 322 | Maharashtra | Chandrapur | 5132921015 | 449133 | 531100 | 627741 | 11429 | 8177 |
| 323 | Maharashtra | Jalna | 6566330906 | 582300 | 740100 | 573153 | 11277 | 11457 |
| 324 | Maharashtra | Nasik | 8933858349 | 876667 | 958100 | 1396102 | 10191 | 6399 |
| 325 | Maharashtra | Dhule | 4352468553 | 435433 | 483200 | 538737 | 9996 | 8079 |
| 326 | Maharashtra | Aurangabad | 6919711423 | 694533 | 1033000 | 771498 | 9963 | 8969 |
| 327 | Maharashtra | Ahmednagar | 9831931499 | 1116367 | 1516400 | 1348560 | 8807 | 7291 |
| 328 | Maharashtra | Gadchiroli | 1388772940 | 169900 | 181500 | 420263 | 8174 | 3305 |
| 329 | Maharashtra | Osmanabad | 3727451138 | 489867 | 754500 | 526120 | 7609 | 7085 |
| 330 | Maharashtra | Beed | 5474860661 | 767400 | 936400 | 761993 | 7134 | 7185 |
| 331 | Maharashtra | Solapur | 6303988438 | 1027133 | 1133700 | 1116638 | 6137 | 5646 |
| 332 | Manipur | Imphal West | 514149064 | 20975 | 20975 | 53586 | 24512 | 9595 |
| 333 | Manipur | Bishnupur | 511527799 | 21300 | 21300 | 43153 | 24015 | 11854 |
| 334 | Manipur | Imphal East | 695651741 | 34675 | 34710 | 54574 | 20062 | 12747 |
| 335 | Manipur | Thoubal | 576099448 | 29975 | 29975 | 111596 | 19219 | 5162 |
| 336 | Manipur | Ukhrul | 365739940 | 19500 | 19500 | 48788 | 18756 | 7497 |
| 337 | Manipur | Senapati | 652597183 | 35305 | 35625 | 158049 | 18485 | 4129 |
| 338 | Manipur | Churachandpur | 494446585 | 28825 | 28885 | 65509 | 17153 | 7548 |
| 339 | Manipur | Chandel | 156212088 | 10980 | 11000 | 36995 | 14227 | 4223 |
| 340 | Manipur | Tamenglong | 158532625 | 12360 | 12615 | 41437 | 12826 | 3826 |
| 341 | Meghalaya | East Khasi Hills | 871073418 | 27641 | 36234 | 76748 | 31514 | 11350 |
| 342 | Meghalaya | RI BHOI | 769713455 | 26911 | 29377 | 68217 | 28602 | 11283 |
| 343 | Meghalaya | East Garo Hills | 760010715 | 32117 | 39414 | 89519 | 23664 | 8490 |
| 344 | Meghalaya | West Garo Hills | 1296961907 | 64328 | 85489 | 152508 | 20162 | 8504 |
| 345 | Meghalaya | West Khasi Hills | 546836754 | 27335 | 32004 | 111739 | 20005 | 4894 |
| 346 | Meghalaya | Jainta Hills | 592955766 | 32395 | 32759 | 96402 | 18304 | 6151 |
| 347 | Meghalaya | South Garo Hills | 281295648 | 18314 | 23041 | 35037 | 15360 | 8029 |
| 348 | Mizoram | Chhimituipui | 223074959 | 12663 | 12663 | 104011 | 17616 | 2145 |
| 349 | Mizoram | Lunglei | 176017678 | 11005 | 11005 | 48983 | 15995 | 3593 |
| 350 | Mizoram | Kolasib | 263047717 | 17063 | 17063 | 21950 | 15417 | 11984 |
| 351 | Mizoram | Aizwal | 289445029 | 19385 | 19385 | 64650 | 14931 | 4477 |
| 352 | Mizoram | Mamit | 192569287 | 13316 | 13316 | 21479 | 14461 | 8965 |
| 353 | Mizoram | Saiha | 167401990 | 13736 | 13736 | 19582 | 12187 | 8549 |
| 354 | Nagaland | Wokha | 1052107997 | 40760 | 48897 | 37295 | 25812 | 28210 |
| 355 | Nagaland | Kohima | 611910765 | 35042 | 39297 | 79444 | 17462 | 7702 |
| 356 | Nagaland | Phek | 739248424 | 42608 | 48307 | 53455 | 17350 | 13829 |
| 357 | Nagaland | Mokokchun | 608857428 | 36608 | 42892 | 72258 | 16632 | 8426 |
| 358 | Nagaland | Denapur | 797913477 | 54093 | 65573 | 33674 | 14751 | 23695 |
| 359 | Nagaland | Mon | 499296937 | 34514 | 39858 | 114119 | 14467 | 4375 |
| 360 | Nagaland | Thensang | 555914576 | 41439 | 46646 | 158657 | 13415 | 3504 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|-------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 361 | Orissa | Phulbani | 3073804630 | 118667 | 173783 | 212570 | 25903 | 14460 |
| 362 | Orissa | Gajapati | 1837666824 | 79667 | 132473 | 215295 | 23067 | 8536 |
| 363 | Orissa | Jagatsingpur | 2153881691 | 98667 | 182067 | 179734 | 21830 | 11984 |
| 364 | Orissa | Ganjam | 8397980529 | 388333 | 649230 | 824466 | 21626 | 10186 |
| 365 | Orissa | Cuttak | 3493798651 | 166667 | 306240 | 342500 | 20963 | 10201 |
| 366 | Orissa | Chenkanal | 3450424802 | 164667 | 259937 | 213365 | 20954 | 16171 |
| 367 | Orissa | Sonepur | 2089084839 | 109667 | 173743 | 183053 | 19049 | 11412 |
| 368 | Orissa | Bargarh | 6259308191 | 329667 | 436057 | 447564 | 18987 | 13985 |
| 369 | Orissa | Puri | 2623868693 | 139333 | 247677 | 270536 | 18832 | 9699 |
| 370 | Orissa | Sambalpur | 3370328970 | 179000 | 244567 | 225039 | 18829 | 14977 |
| 371 | Orissa | Jajpur | 2828445090 | 150333 | 258663 | 249092 | 18814 | 11355 |
| 372 | Orissa | Angul | 3591008980 | 192000 | 307947 | 263254 | 18703 | 13641 |
| 373 | Orissa | Nayagareh | 2356986622 | 133333 | 219273 | 179523 | 17677 | 13129 |
| 374 | Orissa | Kendrapara | 2446366388 | 138667 | 237780 | 262010 | 17642 | 9337 |
| 375 | Orissa | Bhadrak | 2937640847 | 168000 | 213847 | 261656 | 17486 | 11227 |
| 376 | Orissa | Balasore | 4094561688 | 234333 | 321090 | 433982 | 17473 | 9435 |
| 377 | Orissa | Rayagada | 2631237951 | 152000 | 229963 | 298295 | 17311 | 8821 |
| 378 | Orissa | Jharsuguda | 1266634764 | 79667 | 104403 | 88417 | 15899 | 14326 |
| 379 | Orissa | Khurda | 2070378916 | 134000 | 218167 | 173894 | 15451 | 11906 |
| 380 | Orissa | Deogarh | 1012992881 | 66333 | 98057 | 99078 | 15271 | 10224 |
| 381 | Orissa | Koraput | 4194014475 | 282333 | 377467 | 416432 | 14855 | 10071 |
| 382 | Orissa | Keonjhar | 4361124254 | 294333 | 426867 | 430796 | 14817 | 10123 |
| 383 | Orissa | Boudh | 1186219875 | 85333 | 121393 | 133438 | 13901 | 8890 |
| 384 | Orissa | Kalahandi | 4653568739 | 347667 | 498010 | 496393 | 13385 | 9375 |
| 385 | Orissa | Mayurbhanj | 5166212127 | 394667 | 472753 | 684278 | 13090 | 7550 |
| 386 | Orissa | Nawarangpur | 2707099083 | 212333 | 284700 | 418129 | 12749 | 6474 |
| 387 | Orissa | Bolangir | 4107906776 | 332000 | 425640 | 399816 | 12373 | 10274 |
| 388 | Orissa | Malkangiri | 1646117486 | 134000 | 193057 | 206797 | 12284 | 7960 |
| 389 | Orissa | Nawapara | 1872574357 | 163333 | 226720 | 190435 | 11465 | 9833 |
| 390 | Orissa | Sundargarh | 3088937044 | 304333 | 387697 | 439585 | 10150 | 7027 |
| 391 | Pondicherry | Pondicherry | 810064776 | 13759 | 26465 | 61600 | 58874 | 13150 |
| 392 | Pondicherry | Yaman | 34837651 | 678 | 1272 | 2478 | 51383 | 14059 |
| 393 | Pondicherry | MAHE | 27986267 | 630 | 633 | 235 | 44446 | 119090 |
| 394 | Pondicherry | Karaikal | 133838037 | 6900 | 9083 | 19066 | 19397 | 7020 |
| 395 | Punjab | Ludhiana | 19556831230 | 305752 | 604681 | 226927 | 63963 | 86181 |
| 396 | Punjab | Sangrur | 26723260791 | 445238 | 872429 | 382398 | 60020 | 69883 |
| 397 | Punjab | Moga | 11796282548 | 199875 | 392342 | 188250 | 59018 | 62663 |
| 398 | Punjab | Kapurthala | 7890247321 | 136065 | 266581 | 94855 | 57989 | 83182 |
| 399 | Punjab | Patiala | 17419919295 | 301137 | 588439 | 266819 | 57847 | 65287 |
| 400 | Punjab | Fatehgarh Sahib | 5879634254 | 103159 | 192416 | 70688 | 56996 | 83177 |
| 401 | Punjab | Ferozepur | 24930391422 | 474863 | 892608 | 367523 | 52500 | 67834 |
| 402 | Punjab | Muktsar | 11874862322 | 226339 | 440192 | 181864 | 52465 | 65295 |
| 403 | Punjab | Jalandhar | 12410601418 | 238648 | 414101 | 168140 | 52004 | 73811 |
| 404 | Punjab | Bhathinda | 15404871493 | 298001 | 552015 | 255510 | 51694 | 60291 |
| 405 | Punjab | Faridkot | 6652817788 | 130512 | 246383 | 129296 | 50975 | 51454 |
| 406 | Punjab | Mansa | 9772855832 | 194183 | 365248 | 165914 | 50328 | 58903 |
| 407 | Punjab | Nawanshahar | 4666702777 | 98855 | 178122 | 85783 | 47208 | 54401 |
| 408 | Punjab | Amritsar | 20394856861 | 450084 | 825065 | 431423 | 45313 | 47273 |
| 409 | Punjab | Gurdaspur | 12451121478 | 293333 | 493201 | 244726 | 42447 | 50878 |
| 410 | Punjab | Ropar | 4883731939 | 122807 | 211483 | 129277 | 39767 | 37777 |
| 411 | Punjab | Hoshiarpur | 7911251928 | 207473 | 355499 | 208913 | 38131 | 37869 |
| 412 | Rajasthan | Kota | 6917157517 | 243471 | 356852 | 226353 | 28411 | 30559 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|------------|----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 413 | Rajasthan | Baran | 7465428519 | 273726 | 382988 | 340432 | 27273 | 21929 |
| 414 | Rajasthan | Alwar | 11292619590 | 495188 | 759707 | 1035554 | 22805 | 10905 |
| 415 | Rajasthan | Bharatpur | 8914822370 | 391133 | 556419 | 633572 | 22792 | 14071 |
| 416 | Rajasthan | Dholpur | 3034954642 | 145913 | 195413 | 242895 | 20800 | 12495 |
| 417 | Rajasthan | Dausa | 4083375444 | 207436 | 314022 | 399761 | 19685 | 10215 |
| 418 | Rajasthan | Bundi | 4286730320 | 226948 | 334191 | 329481 | 18889 | 13011 |
| 419 | Rajasthan | Karoli | 3331166876 | 177056 | 265767 | 344344 | 18814 | 9674 |
| 420 | Rajasthan | Jhalawar | 5583657032 | 303022 | 419643 | 450351 | 18427 | 12398 |
| 421 | Rajasthan | Ganganagar | 11840012927 | 645156 | 891204 | 437425 | 18352 | 27068 |
| 422 | Rajasthan | Chittore | 7260595793 | 401977 | 526127 | 720867 | 18062 | 10072 |
| 423 | Rajasthan | Jhunjhunu | 5947501091 | 395462 | 572641 | 529220 | 15039 | 11238 |
| 424 | Rajasthan | S. Madhopur | 3330983262 | 231597 | 303573 | 340304 | 14383 | 9788 |
| 425 | Rajasthan | Jaipur | 8904634003 | 620446 | 867364 | 766459 | 14352 | 11618 |
| 426 | Rajasthan | Hanumangarh | 9652082675 | 747004 | 1039947 | 478210 | 12921 | 20184 |
| 427 | Rajasthan | Sirohi | 1724028266 | 139563 | 177745 | 173595 | 12353 | 9931 |
| 428 | Rajasthan | Sikar | 5726503152 | 487575 | 667446 | 587941 | 11745 | 9740 |
| 429 | Rajasthan | Banswara | 2640577875 | 230315 | 301990 | 610244 | 11465 | 4327 |
| 430 | Rajasthan | Udaipur | 2624163140 | 237397 | 282096 | 702773 | 11054 | 3734 |
| 431 | Rajasthan | Rajsamand | 939680941 | 90415 | 102301 | 218274 | 10393 | 4305 |
| 432 | Rajasthan | Bhilwara | 3257151280 | 354724 | 440923 | 601764 | 9182 | 5413 |
| 433 | Rajasthan | Dungarpur | 983161417 | 117918 | 147308 | 405113 | 8338 | 2427 |
| 434 | Rajasthan | Tonk | 3083669670 | 398168 | 463372 | 367086 | 7745 | 8400 |
| 435 | Rajasthan | Nagaur | 7767417478 | 1086052 | 1248449 | 815672 | 7152 | 9523 |
| 436 | Rajasthan | Jalore | 4159787807 | 616410 | 755041 | 563005 | 6748 | 7389 |
| 437 | Rajasthan | Pali | 3208447666 | 501586 | 544496 | 408111 | 6397 | 7862 |
| 438 | Rajasthan | Jodhpur | 5955890023 | 935653 | 998571 | 656274 | 6365 | 9075 |
| 439 | Rajasthan | Bikaner | 6822597502 | 1112010 | 1203476 | 406513 | 6135 | 16783 |
| 440 | Rajasthan | Ajmer | 2147184418 | 373766 | 425675 | 410669 | 5745 | 5229 |
| 441 | Rajasthan | Churu | 3786285696 | 955341 | 1028861 | 660235 | 3963 | 5735 |
| 442 | Rajasthan | Jaisalmer | 1043099031 | 378938 | 420221 | 116734 | 2753 | 8936 |
| 443 | Rajasthan | Barmer | 3776649745 | 1467508 | 1566135 | 716771 | 2574 | 5269 |
| 444 | Sikkim | South | 482408712 | 17500 | 33250 | 51202 | 27566 | 9422 |
| 445 | Sikkim | West | 395186064 | 16630 | 34590 | 39844 | 23763 | 9918 |
| 446 | Sikkim | East | 390473084 | 18122 | 27183 | 46044 | 21547 | 8480 |
| 447 | Sikkim | North | 142160203 | 9740 | 11493 | 11271 | 14596 | 12613 |
| 448 | Tamil Nadu | The Nilgiris | 6668309285 | 78618 | 78702 | 62171 | 84819 | 107258 |
| 449 | Tamil Nadu | Kanyakumari | 4475676887 | 79829 | 93501 | 98066 | 56066 | 45639 |
| 450 | Tamil Nadu | Namakkal | 8854455756 | 165143 | 227478 | 450157 | 53617 | 19670 |
| 451 | Tamil Nadu | Tirunelveli | 6314847468 | 135514 | 157907 | 508268 | 46599 | 12424 |
| 452 | Tamil Nadu | Cuddalore | 9745215494 | 216367 | 279100 | 645096 | 45040 | 15107 |
| 453 | Tamil Nadu | Tiruchirapalli | 6756651238 | 153956 | 166345 | 554380 | 43887 | 12188 |
| 454 | Tamil Nadu | Thiruvallur | 4525177108 | 108054 | 145220 | 328273 | 41879 | 13785 |
| 455 | Tamil Nadu | Erode | 10170461435 | 260123 | 273554 | 787023 | 39099 | 12923 |
| 456 | Tamil Nadu | Theni | 4155524882 | 108127 | 116755 | 335068 | 38432 | 12402 |
| 457 | Tamil Nadu | Thanjavur | 6533395290 | 176501 | 223348 | 563970 | 37016 | 11585 |
| 458 | Tamil Nadu | Kancheepuram | 4809402451 | 132010 | 164685 | 425258 | 36432 | 11309 |
| 459 | Tamil Nadu | Salem | 7526239880 | 218955 | 286936 | 694641 | 34373 | 10835 |
| 460 | Tamil Nadu | Thoothukudi | 5261186048 | 156851 | 160169 | 238702 | 33543 | 22041 |
| 461 | Tamil Nadu | Villupuram | 9455632987 | 293127 | 337503 | 1120328 | 32258 | 8440 |
| 462 | Tamil Nadu | Vellore | 5707424286 | 185582 | 223910 | 643894 | 30754 | 8864 |
| 463 | Tamil Nadu | Dharmapuri | 8159166852 | 298710 | 348171 | 994167 | 27315 | 8207 |
| 464 | Tamil Nadu | Krishnagiri | 1635978862 | 60059 | 66604 | 270231 | 27239 | 6054 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|---------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 465 | Tamil Nadu | Pudukottai | 3588412990 | 137015 | 139012 | 477901 | 26190 | 7509 |
| 466 | Tamil Nadu | Coimbatore | 8079052529 | 310740 | 323255 | 574825 | 25999 | 14055 |
| 467 | Tamil Nadu | Madurai | 3132025848 | 121929 | 127689 | 458141 | 25687 | 6836 |
| 468 | Tamil Nadu | Thiruvannamalai | 4763202710 | 202411 | 256090 | 772091 | 23532 | 6169 |
| 469 | Tamil Nadu | Karur | 1980066496 | 87214 | 88435 | 294457 | 22704 | 6724 |
| 470 | Tamil Nadu | Nagapattinam | 3054080600 | 137701 | 212359 | 382246 | 22179 | 7990 |
| 471 | Tamil Nadu | Dindigul | 4792244740 | 228087 | 234070 | 606955 | 21011 | 7896 |
| 472 | Tamil Nadu | Perambalur | 3780155747 | 196284 | 210572 | 219773 | 19259 | 17200 |
| 473 | Tamil Nadu | Virudhunagar | 2385420949 | 140100 | 144695 | 282202 | 17027 | 8453 |
| 474 | Tamil Nadu | Thiruvarur | 2214763748 | 134274 | 197662 | 354407 | 16494 | 6249 |
| 475 | Tamil Nadu | Ramanathapuram | 2846175263 | 184105 | 184105 | 304045 | 15460 | 9361 |
| 476 | Tamil Nadu | Sivagangai | 1594816771 | 109940 | 110032 | 331165 | 14506 | 4816 |
| 477 | Tripura | North (Tripura) | 1460346829 | 43948 | 69130 | 85531 | 33229 | 17074 |
| 478 | Tripura | Dhalai | 759875545 | 26447 | 41700 | 81829 | 28732 | 9286 |
| 479 | Tripura | South (Tripura) | 2319022984 | 88266 | 101654 | 196233 | 26273 | 11818 |
| 480 | Tripura | West (Tripura) | 2925023948 | 121339 | 130535 | 226119 | 24106 | 12936 |
| 481 | Uttar Pradesh | Meerut | 10329698737 | 199362 | 305585 | 331904 | 51814 | 31123 |
| 482 | Uttar Pradesh | Bagpat | 5617643971 | 110534 | 174803 | 226502 | 50823 | 24802 |
| 483 | Uttar Pradesh | Farrukhabad | 7627020497 | 152531 | 216350 | 313886 | 50003 | 24299 |
| 484 | Uttar Pradesh | Ghaziabad | 7344555046 | 147771 | 237150 | 229148 | 49702 | 32052 |
| 485 | Uttar Pradesh | Muzaffarnagar | 16182506904 | 325770 | 475731 | 691794 | 49675 | 23392 |
| 486 | Uttar Pradesh | Kannauj | 5873790368 | 142656 | 227392 | 323309 | 41175 | 18168 |
| 487 | Uttar Pradesh | Bijnor | 13902931818 | 342101 | 444344 | 509265 | 40640 | 27300 |
| 488 | Uttar Pradesh | Saharanpur | 11143409744 | 274224 | 424997 | 531028 | 40636 | 20985 |
| 489 | Uttar Pradesh | J.B.Fule Nagar | 6743991875 | 170005 | 261493 | 304175 | 39669 | 22171 |
| 490 | Uttar Pradesh | Rampur | 7648625687 | 193215 | 354965 | 360857 | 39586 | 21196 |
| 491 | Uttar Pradesh | Pilibhit | 8807421218 | 232917 | 381773 | 330833 | 37814 | 26622 |
| 492 | Uttar Pradesh | Bulandshahar | 10553614918 | 293299 | 493047 | 613873 | 35982 | 17192 |
| 493 | Uttar Pradesh | Barabanki | 9378062337 | 263525 | 468293 | 779445 | 35587 | 12032 |
| 494 | Uttar Pradesh | Hathras | 5174495512 | 147137 | 229506 | 230519 | 35168 | 22447 |
| 495 | Uttar Pradesh | Eath | 11148996078 | 321803 | 520553 | 588136 | 34645 | 18956 |
| 496 | Uttar Pradesh | Maharalganj | 6906385747 | 202232 | 358633 | 719497 | 34151 | 9599 |
| 497 | Uttar Pradesh | Ferozabad | 6116121979 | 180134 | 279185 | 264643 | 33953 | 23111 |
| 498 | Uttar Pradesh | Ambedker Nagar | 5544316115 | 164525 | 279734 | 515129 | 33699 | 10763 |
| 499 | Uttar Pradesh | Kheri | 16050371089 | 482810 | 712085 | 796645 | 33244 | 20147 |
| 500 | Uttar Pradesh | Kushi Nagar | 7291376039 | 222049 | 337106 | 828554 | 32837 | 8800 |
| 501 | Uttar Pradesh | Shahjahanpur | 11515168682 | 350801 | 565517 | 428401 | 32825 | 26879 |
| 502 | Uttar Pradesh | Bareilly | 10505768347 | 328550 | 523444 | 646035 | 31976 | 16262 |
| 503 | Uttar Pradesh | Agra | 9140106671 | 286684 | 408413 | 392857 | 31882 | 23266 |
| 504 | Uttar Pradesh | Moradabad | 9688156011 | 317478 | 536618 | 650938 | 30516 | 14883 |
| 505 | Uttar Pradesh | Etawah | 4408069119 | 145262 | 233055 | 246051 | 30346 | 17915 |
| 506 | Uttar Pradesh | Mathura | 8033991700 | 270213 | 405646 | 441922 | 29732 | 18180 |
| 507 | Uttar Pradesh | Faizabad | 4333648234 | 146107 | 225758 | 621268 | 29661 | 6975 |
| 508 | Uttar Pradesh | Chandauli | 4048622940 | 137216 | 241219 | 342380 | 29505 | 11825 |
| 509 | Uttar Pradesh | Aligarh | 8865918809 | 301670 | 493752 | 480517 | 29389 | 18451 |
| 510 | Uttar Pradesh | Mainpuri | 5566124863 | 190655 | 291908 | 343873 | 29195 | 16187 |
| 511 | Uttar Pradesh | Badaun | 11871300715 | 415493 | 676503 | 718830 | 28572 | 16515 |
| 512 | Uttar Pradesh | Mau | 3508428504 | 125665 | 209197 | 364483 | 27919 | 9626 |
| 513 | Uttar Pradesh | Sant Kabir Nagar | 3268714116 | 117766 | 205900 | 404286 | 27756 | 8085 |
| 514 | Uttar Pradesh | Auraiya | 3954060342 | 143042 | 223310 | 287573 | 27643 | 13750 |
| 515 | Uttar Pradesh | Azamgarh | 8107769079 | 299105 | 493650 | 879356 | 27107 | 9220 |
| 516 | Uttar Pradesh | Sultanpur | 7577765406 | 283359 | 426470 | 768487 | 26743 | 9861 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|--------|---------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 517 | Uttar Pradesh | Kanpur (C) | 5047922906 | 191551 | 268616 | 371240 | 26353 | 13597 |
| 518 | Uttar Pradesh | Kanpur (D) | 5848815586 | 222620 | 312355 | 398496 | 26273 | 14677 |
| 519 | Uttar Pradesh | Gonda | 7686053555 | 294649 | 458673 | 784653 | 26085 | 9795 |
| 520 | Uttar Pradesh | Deoria | 5168359433 | 198307 | 321393 | 568650 | 26062 | 9089 |
| 521 | Uttar Pradesh | Ghazipur | 6664832653 | 256118 | 413421 | 693809 | 26022 | 9606 |
| 522 | Uttar Pradesh | Sitapur | 11227652418 | 432795 | 622550 | 891409 | 25942 | 12595 |
| 523 | Uttar Pradesh | Jaunpur | 7230097420 | 282968 | 440188 | 886254 | 25551 | 8158 |
| 524 | Uttar Pradesh | Basti | 5234938709 | 207587 | 304046 | 601545 | 25218 | 8702 |
| 525 | Uttar Pradesh | Ballia | 5356392524 | 217359 | 350140 | 562964 | 24643 | 9515 |
| 526 | Uttar Pradesh | Hardoi | 10263013266 | 417875 | 627654 | 863047 | 24560 | 11892 |
| 527 | Uttar Pradesh | Varanasi | 2781848948 | 113778 | 157391 | 305230 | 24450 | 9114 |
| 528 | Uttar Pradesh | Pratapgarh | 5316813720 | 218268 | 327898 | 727177 | 24359 | 7312 |
| 529 | Uttar Pradesh | Allahabad | 8184176752 | 347435 | 517431 | 940655 | 23556 | 8701 |
| 530 | Uttar Pradesh | Lucknow | 3223820791 | 137164 | 207988 | 345753 | 23503 | 9324 |
| 531 | Uttar Pradesh | Balrampur | 4709257284 | 206892 | 304966 | 624371 | 22762 | 7542 |
| 532 | Uttar Pradesh | Fatehpur | 6599257164 | 292139 | 401467 | 682988 | 22589 | 9662 |
| 533 | Uttar Pradesh | Gorakhpur | 5708884806 | 253152 | 388358 | 750876 | 22551 | 7603 |
| 534 | Uttar Pradesh | Raibareli | 5977444956 | 268789 | 409490 | 800490 | 22238 | 7467 |
| 535 | Uttar Pradesh | S.Rabidas Nagar | 1511297146 | 69116 | 99291 | 160321 | 21866 | 9427 |
| 536 | Uttar Pradesh | Unnao | 6444828439 | 294878 | 439013 | 702230 | 21856 | 9178 |
| 537 | Uttar Pradesh | Mirzapur | 4526989497 | 208903 | 304645 | 453727 | 21670 | 9977 |
| 538 | Uttar Pradesh | Bahraich | 7134961803 | 331212 | 505695 | 710202 | 21542 | 10046 |
| 539 | Uttar Pradesh | Jalaun | 7288185928 | 347307 | 402502 | 395991 | 20985 | 18405 |
| 540 | Uttar Pradesh | G.B. Nagar | 2603284465 | 127726 | 140850 | 126707 | 20382 | 20546 |
| 541 | Uttar Pradesh | Kaushambi | 2633580940 | 130196 | 173308 | 402616 | 20228 | 6541 |
| 542 | Uttar Pradesh | Shrawashtri | 2877159155 | 142759 | 216297 | 408859 | 20154 | 7037 |
| 543 | Uttar Pradesh | Siddharthanagar | 4821349118 | 240309 | 342133 | 679834 | 20063 | 7092 |
| 544 | Uttar Pradesh | Jhansi | 5810550805 | 338570 | 419292 | 393122 | 17162 | 14781 |
| 545 | Uttar Pradesh | Sonbhadra | 3019688303 | 191885 | 273895 | 394574 | 15737 | 7653 |
| 546 | Uttar Pradesh | Hamirpur | 4325504533 | 299769 | 338807 | 314863 | 14429 | 13738 |
| 547 | Uttar Pradesh | Banda | 4778558761 | 347692 | 419585 | 473894 | 13744 | 10084 |
| 548 | Uttar Pradesh | Lalitpur | 3461064335 | 252804 | 348361 | 341038 | 13691 | 10149 |
| 549 | Uttar Pradesh | Chitrakoot | 2285632213 | 171249 | 190367 | 279905 | 13347 | 8166 |
| 550 | Uttar Pradesh | Mahoba | 2608811195 | 239856 | 271572 | 233486 | 10877 | 11173 |
| 551 | Uttranachal | U.S Nagar | 6163838989 | 149576 | 248861 | 217729 | 41209 | 28310 |
| 552 | Uttranachal | Haridwar | 4827906905 | 120844 | 171440 | 177689 | 39952 | 27171 |
| 553 | Uttranachal | Nainital | 1468056523 | 48812 | 81813 | 141717 | 30076 | 10359 |
| 554 | Uttranachal | Dehradun | 1117802950 | 51500 | 77825 | 102653 | 21705 | 10889 |
| 555 | Uttranachal | Uttar Kashi | 533416447 | 29552 | 45594 | 104480 | 18050 | 5105 |
| 556 | Uttranachal | Champawat | 381266871 | 23780 | 38498 | 64859 | 16033 | 5878 |
| 557 | Uttranachal | Vageshwar | 379173469 | 23763 | 41477 | 92443 | 15957 | 4102 |
| 558 | Uttranachal | Pithoragarh | 718177110 | 45788 | 82377 | 136811 | 15685 | 5249 |
| 559 | Uttranachal | Chamoli | 436806720 | 30530 | 46474 | 105265 | 14307 | 4150 |
| 560 | Uttranachal | Tehri garhwal | 797700866 | 56847 | 88672 | 188610 | 14033 | 4229 |
| 561 | Uttranachal | Rudraprayag | 239573352 | 19838 | 31640 | 77025 | 12077 | 3110 |
| 562 | Uttranachal | Pauri Garhwal | 852783758 | 83629 | 127411 | 185535 | 10197 | 4596 |
| 563 | Uttranachal | Almora | 817238794 | 83035 | 131455 | 223351 | 9842 | 3659 |
| 564 | West Bengal | Hooghly | 15567152110 | 225012 | 516862 | 725750 | 69184 | 21450 |
| 565 | West Bengal | Nadia | 17411807209 | 308291 | 855733 | 693318 | 56479 | 25114 |
| 566 | West Bengal | Burdwan | 24284215620 | 469781 | 868880 | 1092247 | 51693 | 22233 |
| 567 | West Bengal | Howrah | 4270334426 | 83459 | 174332 | 217643 | 51167 | 19621 |
| 568 | West Bengal | Jalpaiguri | 16792182497 | 344742 | 519539 | 495462 | 48709 | 33892 |

| Sr. No | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|---------------|--------------|------------------|---------------------------|-----------------------|-----------------------|----------------------|--------------------------|----------------------------|
| 569 | West Bengal | 24-Parganas(N) | 12375191987 | 266355 | 556503 | 698210 | 46461 | 17724 |
| 570 | West Bengal | Murshidabad | 18639632977 | 405574 | 912618 | 930265 | 45959 | 20037 |
| 571 | West Bengal | Midnapore (West) | 21531570817 | 532327 | 852095 | 1421429 | 40448 | 15148 |
| 572 | West Bengal | Birbhum | 12772634325 | 319540 | 532384 | 676874 | 39972 | 18870 |
| 573 | West Bengal | Malda | 8957013944 | 227951 | 454033 | 689178 | 39294 | 12997 |
| 574 | West Bengal | Midnapore (East) | 12585596895 | 325131 | 556796 | 830851 | 38709 | 15148 |
| 575 | West Bengal | Bankura | 12626096005 | 362869 | 510441 | 943017 | 34795 | 13389 |
| 576 | West Bengal | Uttar Dinajpur | 8631336170 | 273432 | 513841 | 647706 | 31567 | 13326 |
| 577 | West Bengal | Cooch Behar | 7817404548 | 260192 | 478594 | 647285 | 30045 | 12077 |
| 578 | West Bengal | Dakshin Dinajpur | 5400738138 | 193195 | 302438 | 411516 | 27955 | 13124 |
| 579 | West Bengal | Darjeeling | 3969287567 | 144188 | 172739 | 140506 | 27528 | 28250 |
| 580 | West Bengal | 24-Parganas(S) | 9881960582 | 381803 | 542936 | 941326 | 25882 | 10498 |
| 581 | West Bengal | Purulia | 5909741870 | 310640 | 329511 | 758939 | 19024 | 7787 |

Appendix 4
All India Ranking of Districts by Levels of Development, 2001-04
 (Base Land Productivity)

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|----------------|-----------------|-----------------------|-------------------|-------------------|------------------|----------------------|------------------------|
| 1 | Tamil Nadu | The Nilgiris | 6668309285 | 78618 | 78702 | 62171 | 84819 | 107258 |
| 2 | Kerala | Idukki | 15886493479 | 227853 | 281730 | 235549 | 69723 | 67445 |
| 3 | West Bengal | Hooghly | 15567152110 | 225012 | 516862 | 725750 | 69184 | 21450 |
| 4 | Kerala | Wayanad | 8000078387 | 116321 | 202831 | 146520 | 68776 | 54601 |
| 5 | Punjab | Ludhiana | 19556831230 | 305752 | 604681 | 226927 | 63963 | 86181 |
| 6 | Punjab | Sangrur | 26723260791 | 445238 | 872429 | 382398 | 60020 | 69883 |
| 7 | Punjab | Moga | 11796282548 | 199875 | 392342 | 188250 | 59018 | 62663 |
| 8 | Pondicherry | Pondicherry | 810064776 | 13759 | 26465 | 61600 | 58874 | 13150 |
| 9 | Punjab | Kapurthala | 7890247321 | 136065 | 266581 | 94855 | 57989 | 83182 |
| 10 | Punjab | Patiala | 17419919295 | 301137 | 588439 | 266819 | 57847 | 65287 |
| 11 | Punjab | Fatehgarh Sahib | 5879634254 | 103159 | 192416 | 70688 | 56996 | 83177 |
| 12 | West Bengal | Nadia | 17411807209 | 308291 | 855733 | 693318 | 56479 | 25114 |
| 13 | Assam | Tinsukia | 5594188667 | 99450 | 141054 | 175405 | 56251 | 31893 |
| 14 | Tamil Nadu | Kanyakumari | 4475676887 | 79829 | 93501 | 98066 | 56066 | 45639 |
| 15 | Tamil Nadu | Namakkal | 8854455756 | 165143 | 227478 | 450157 | 53617 | 19670 |
| 16 | Assam | Dibrugarh | 7254930876 | 137977 | 178293 | 174905 | 52581 | 41479 |
| 17 | Punjab | Ferozepur | 24930391422 | 474863 | 892608 | 367523 | 52500 | 67834 |
| 18 | Punjab | Muktsar | 11874862322 | 226339 | 440192 | 181864 | 52465 | 65295 |
| 19 | Punjab | Jalandhar | 12410601418 | 238648 | 414101 | 168140 | 52004 | 73811 |
| 20 | Uttar Pradesh | Meerut | 10329698737 | 199362 | 305585 | 331904 | 51814 | 31123 |
| 21 | Punjab | Bhathinda | 15404871493 | 298001 | 552015 | 255510 | 51694 | 60291 |
| 22 | West Bengal | Burdwan | 24284215620 | 469781 | 868880 | 1092247 | 51693 | 22233 |
| 23 | Pondicherry | Yaman | 34837651 | 678 | 1272 | 2478 | 51383 | 14059 |
| 24 | West Bengal | Howrah | 4270334426 | 83459 | 174332 | 217643 | 51167 | 19621 |
| 25 | Haryana | Kurukshetra | 7659321733 | 149990 | 265917 | 143913 | 51065 | 53222 |
| 26 | Haryana | Karnal | 9948717351 | 194918 | 382661 | 229994 | 51041 | 43256 |
| 27 | Punjab | Faridkot | 6652817788 | 130512 | 246383 | 129296 | 50975 | 51454 |
| 28 | Uttar Pradesh | Bagpat | 5617643971 | 110534 | 174803 | 226502 | 50823 | 24802 |
| 29 | Punjab | Mansa | 9772855832 | 194183 | 365248 | 165914 | 50328 | 58903 |
| 30 | Andhra Pradesh | W-West Godavari | 20720437837 | 412876 | 636838 | 1164983 | 50186 | 17786 |
| 31 | Kerala | Kollam | 7082133364 | 141312 | 195303 | 177887 | 50117 | 39813 |
| 32 | Uttar Pradesh | Farrukhabad | 7627020497 | 152531 | 216350 | 313886 | 50003 | 24299 |
| 33 | Haryana | Panipat | 4544742963 | 91416 | 184539 | 145252 | 49715 | 31289 |
| 34 | Uttar Pradesh | Ghaziabad | 7344555046 | 147771 | 237150 | 229148 | 49702 | 32052 |
| 35 | Uttar Pradesh | Muzaffarnagar | 16182506904 | 325770 | 475731 | 691794 | 49675 | 23392 |
| 36 | West Bengal | Jalpaiguri | 16792182497 | 344742 | 519539 | 495462 | 48709 | 33892 |
| 37 | Kerala | Pathanamthitta | 4436859930 | 91521 | 116132 | 122256 | 48479 | 36292 |
| 38 | Karnataka | Kodagu | 7118069140 | 147135 | 148242 | 31179 | 48378 | 228297 |
| 39 | Haryana | Kaithal | 9435592303 | 197177 | 383972 | 234773 | 47853 | 40190 |
| 40 | Kerala | Kottayam | 8111569902 | 171712 | 218485 | 135041 | 47239 | 60067 |
| 41 | Punjab | Nawanshahar | 4666702777 | 98855 | 178122 | 85783 | 47208 | 54401 |
| 42 | Tamil Nadu | Tirunelveli | 6314847468 | 135514 | 157907 | 508268 | 46599 | 12424 |
| 43 | West Bengal | 24-Parganas(N) | 12375191987 | 266355 | 556503 | 698210 | 46461 | 17724 |
| 44 | Andhra Pradesh | East Godavari | 18556894381 | 399797 | 703171 | 1207356 | 46416 | 15370 |
| 45 | West Bengal | Murshidabad | 18639632977 | 405574 | 912618 | 930265 | 45959 | 20037 |
| 46 | Maharashtra | Kolhapur | 19559612941 | 427733 | 744300 | 979419 | 45729 | 19971 |
| 47 | Punjab | Amritsar | 20394856861 | 450084 | 825065 | 431423 | 45313 | 47273 |
| 48 | Tamil Nadu | Cuddalore | 9745215494 | 216367 | 279100 | 645096 | 45040 | 15107 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|--------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 49 | Gujarat | Navsari | 6599411139 | 147233 | 174812 | 308641 | 44823 | 21382 |
| 50 | Pondicherry | MAHE | 27986267 | 630 | 633 | 235 | 44446 | 119090 |
| 51 | Haryana | Fatehabad | 9901198012 | 223753 | 406774 | 245298 | 44251 | 40364 |
| 52 | Andhra Pradesh | Guntur | 25577167670 | 582288 | 777426 | 1466665 | 43925 | 17439 |
| 53 | Tamil Nadu | Tiruchirapalli | 6756651238 | 153956 | 166345 | 554380 | 43887 | 12188 |
| 54 | Kerala | Thiruvananthapuram | 6183816547 | 142459 | 188864 | 215767 | 43408 | 28660 |
| 55 | Haryana | Yamunanagar | 5362688558 | 124795 | 196083 | 104778 | 42972 | 51181 |
| 56 | Punjab | Gurdaspur | 12451121478 | 293333 | 493201 | 244726 | 42447 | 50878 |
| 57 | Tamil Nadu | Thiruvallur | 4525177108 | 108054 | 145220 | 328273 | 41879 | 13785 |
| 58 | Kerala | Kozhikode | 6604150626 | 159894 | 227058 | 93016 | 41303 | 71000 |
| 59 | Uttranchal | U.S Nagar | 6163838989 | 149576 | 248861 | 217729 | 41209 | 28310 |
| 60 | Haryana | Hisar | 12708939906 | 308459 | 600264 | 392351 | 41201 | 32392 |
| 61 | Uttar Pradesh | Kannauj | 5873790368 | 142656 | 227392 | 323309 | 41175 | 18168 |
| 62 | Haryana | Sirsa | 15724718806 | 383384 | 672562 | 291231 | 41016 | 53994 |
| 63 | Haryana | Jind | 9823072537 | 241107 | 450789 | 348675 | 40742 | 28173 |
| 64 | Uttar Pradesh | Bijnor | 13902931818 | 342101 | 444344 | 509265 | 40640 | 27300 |
| 65 | Uttar Pradesh | Saharanpur | 11143409744 | 274224 | 424997 | 531028 | 40636 | 20985 |
| 66 | West Bengal | Midnapore (West) | 21531570817 | 532327 | 852095 | 1421429 | 40448 | 15148 |
| 67 | Kerala | Malappuram | 7988439483 | 198614 | 270626 | 212908 | 40221 | 37521 |
| 68 | Maharashtra | Jalgaon | 34209857279 | 852133 | 1325300 | 1144428 | 40146 | 29893 |
| 69 | Lakshadweep | All districts | 106717617 | 2669 | 2800 | 5781 | 39984 | 18460 |
| 70 | West Bengal | Birbhum | 12772634325 | 319540 | 532384 | 676874 | 39972 | 18870 |
| 71 | Uttranchal | Haridwar | 4827906905 | 120844 | 171440 | 177689 | 39952 | 27171 |
| 72 | Punjab | Ropar | 4883731939 | 122807 | 211483 | 129277 | 39767 | 37777 |
| 73 | Uttar Pradesh | J.B.Fule Nagar | 6743991875 | 170005 | 261493 | 304175 | 39669 | 22171 |
| 74 | Kerala | Ernakulam | 6592715487 | 166277 | 215071 | 147469 | 39649 | 44706 |
| 75 | Uttar Pradesh | Rampur | 7648625687 | 193215 | 354965 | 360857 | 39586 | 21196 |
| 76 | Kerala | Thrissur | 5623834827 | 142428 | 194403 | 161278 | 39485 | 34870 |
| 77 | West Bengal | Malda | 8957013944 | 227951 | 454033 | 689178 | 39294 | 12997 |
| 78 | Kerala | Palakkad | 7957748856 | 202925 | 319993 | 404778 | 39215 | 19660 |
| 79 | Tamil Nadu | Erode | 10170461435 | 260123 | 273554 | 787023 | 39099 | 12923 |
| 80 | Haryana | Sonapat | 6212522865 | 159086 | 276213 | 278284 | 39051 | 22324 |
| 81 | Haryana | Faridabad | 5719303308 | 146986 | 260954 | 281320 | 38911 | 20330 |
| 82 | West Bengal | Midnapore (East) | 12585596895 | 325131 | 556796 | 1245659 | 38709 | 15148 |
| 83 | Haryana | Ambala | 5144660536 | 133391 | 201624 | 97022 | 38568 | 53026 |
| 84 | Tamil Nadu | Theni | 4155524882 | 108127 | 116755 | 335068 | 38432 | 12402 |
| 85 | Punjab | Hoshiarpur | 7911251928 | 207473 | 355499 | 208913 | 38131 | 37869 |
| 86 | Uttar Pradesh | Pilibhit | 8807421218 | 232917 | 381773 | 330833 | 37814 | 26622 |
| 87 | Assam | Jorhat | 4506105608 | 119933 | 171044 | 191220 | 37572 | 23565 |
| 88 | Arunachal Pradesh | Dipnag Valley | 360367209 | 9691 | 16475 | 15597 | 37186 | 23105 |
| 89 | Kerala | Kannur | 7461417838 | 201331 | 263153 | 151852 | 37060 | 49136 |
| 90 | Tamil Nadu | Thanjavur | 6533395290 | 176501 | 223348 | 563970 | 37016 | 11585 |
| 91 | Kerala | Kasaragod | 4919505388 | 132964 | 152030 | 61814 | 36999 | 79586 |
| 92 | Tamil Nadu | Kancheepuram | 4809402451 | 132010 | 164685 | 425258 | 36432 | 11309 |
| 93 | Uttar Pradesh | Bulandshahar | 10553614918 | 293299 | 493047 | 613873 | 35982 | 17192 |
| 94 | Uttar Pradesh | Barabanki | 9378062337 | 263525 | 468293 | 779445 | 35587 | 12032 |
| 95 | Andhra Pradesh | Krishna | 15411255573 | 436500 | 640448 | 1090697 | 35306 | 14130 |
| 96 | Uttar Pradesh | Hathras | 5174495512 | 147137 | 229506 | 230519 | 35168 | 22447 |
| 97 | West Bengal | Bankura | 12626096005 | 362869 | 510441 | 943017 | 34795 | 13389 |
| 98 | Uttar Pradesh | Eath | 11148996078 | 321803 | 520553 | 588136 | 34645 | 18956 |
| 99 | Tamil Nadu | Salem | 7526239880 | 218955 | 286936 | 694641 | 34373 | 10835 |
| 100 | Uttar Pradesh | Maharalganj | 6906385747 | 202232 | 358633 | 719497 | 34151 | 9599 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|------------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 101 | Assam | Golaghat | 4002106109 | 117349 | 150561 | 226008 | 34104 | 17708 |
| 102 | Uttar Pradesh | Ferozabad | 6116121979 | 180134 | 279185 | 264643 | 33953 | 23111 |
| 103 | Assam | Sonitpur | 5605754005 | 165855 | 244006 | 296393 | 33799 | 18913 |
| 104 | Uttar Pradesh | Ambedker Nagar | 5544316115 | 164525 | 279734 | 515129 | 33699 | 10763 |
| 105 | Assam | Sivasagar | 4629541472 | 137619 | 152995 | 186140 | 33640 | 24871 |
| 106 | Tamil Nadu | Thoothukudi | 5261186048 | 156851 | 160169 | 238702 | 33543 | 22041 |
| 107 | Uttar Pradesh | Kheri | 16050371089 | 482810 | 712085 | 796645 | 33244 | 20147 |
| 108 | Tripura | North (Tripura) | 1460346829 | 43948 | 69130 | 85531 | 33229 | 17074 |
| 109 | Andhra Pradesh | Nizamabad | 7323195485 | 220626 | 325194 | 657799 | 33193 | 11133 |
| 110 | Goa | Goa South | 1833407775 | 55639 | 65750 | 32525 | 32952 | 56369 |
| 111 | Uttar Pradesh | Kushi Nagar | 7291376039 | 222049 | 337106 | 828554 | 32837 | 8800 |
| 112 | Uttar Pradesh | Shahjahanpur | 11515168682 | 350801 | 565517 | 428401 | 32825 | 26879 |
| 113 | Assam | Karimganj | 2244459879 | 68683 | 96269 | 119865 | 32679 | 18725 |
| 114 | Andhra Pradesh | Karimnagar | 11607499222 | 359603 | 499116 | 1026540 | 32279 | 11307 |
| 115 | Tamil Nadu | Villupuram | 9455632987 | 293127 | 337503 | 1120328 | 32258 | 8440 |
| 116 | Gujarat | Porbandar | 3642579856 | 113233 | 128267 | 109493 | 32169 | 33268 |
| 117 | Assam | Cachar | 3711539792 | 115489 | 146219 | 159754 | 32138 | 23233 |
| 118 | Uttar Pradesh | Bareilly | 10505768347 | 328550 | 523444 | 646035 | 31976 | 16262 |
| 119 | Himachal Pradesh | Sirmaur | 1296351182 | 40621 | 74778 | 167626 | 31913 | 7734 |
| 120 | Uttar Pradesh | Agra | 9140106671 | 286684 | 408413 | 392857 | 31882 | 23266 |
| 121 | West Bengal | Uttar Dinajpur | 8631336170 | 273432 | 513841 | 647706 | 31567 | 13326 |
| 122 | Assam | Hailakandi | 1450878549 | 46027 | 64878 | 88802 | 31522 | 16338 |
| 123 | Meghalaya | East Khasi Hills | 871073418 | 27641 | 36234 | 76748 | 31514 | 11350 |
| 124 | Haryana | Panchkula | 789831689 | 25275 | 45106 | 40743 | 31250 | 19386 |
| 125 | Haryana | Gurgaon | 5340502400 | 172128 | 292816 | 254522 | 31026 | 20982 |
| 126 | Gujarat | Junagadh | 16247673537 | 525233 | 601724 | 642025 | 30934 | 25307 |
| 127 | Tamil Nadu | Vellore | 5707424286 | 185582 | 223910 | 643894 | 30754 | 8864 |
| 128 | Uttar Pradesh | Moradabad | 9688156011 | 317478 | 536618 | 650938 | 30516 | 14883 |
| 129 | Uttar Pradesh | Etawah | 4408069119 | 145262 | 233055 | 246051 | 30346 | 17915 |
| 130 | Uttaranchal | Nainital | 1468056523 | 48812 | 81813 | 141717 | 30076 | 10359 |
| 131 | West Bengal | Cooch Behar | 7817404548 | 260192 | 478594 | 647285 | 30045 | 12077 |
| 132 | Gujarat | Surat | 12802611590 | 429267 | 486100 | 739391 | 29824 | 17315 |
| 133 | Uttar Pradesh | Mathura | 8033991700 | 270213 | 405646 | 441922 | 29732 | 18180 |
| 134 | Uttar Pradesh | Faizabad | 4333648234 | 146107 | 225758 | 621268 | 29661 | 6975 |
| 135 | Haryana | Rohtak | 4176237412 | 141034 | 222799 | 190449 | 29612 | 21928 |
| 136 | Uttar Pradesh | Chandauli | 4048622940 | 137216 | 241219 | 342380 | 29505 | 11825 |
| 137 | Haryana | Mahendragarh | 4181551419 | 141980 | 253901 | 232241 | 29452 | 18005 |
| 138 | Uttar Pradesh | Aligarh | 8865918809 | 301670 | 493752 | 480517 | 29389 | 18451 |
| 139 | Assam | N Kachar Hills | 829876063 | 28316 | 36095 | 38109 | 29308 | 21776 |
| 140 | Kerala | Alappuzha | 2750898242 | 94110 | 126684 | 127869 | 29231 | 21513 |
| 141 | Uttar Pradesh | Mainpuri | 5566124863 | 190655 | 291908 | 343873 | 29195 | 16187 |
| 142 | Haryana | Rewari | 3683510283 | 126516 | 192008 | 193713 | 29115 | 19015 |
| 143 | Goa | Goa North | 2458987497 | 85131 | 102884 | 54288 | 28885 | 45295 |
| 144 | Tripura | Dhalai | 759875545 | 26447 | 41700 | 81829 | 28732 | 9286 |
| 145 | Haryana | Bhiwani | 11515011383 | 401948 | 723805 | 391046 | 28648 | 29447 |
| 146 | Meghalaya | RI BHOI | 769713455 | 26911 | 29377 | 68217 | 28602 | 11283 |
| 147 | Uttar Pradesh | Badaun | 11871300715 | 415493 | 676503 | 718830 | 28572 | 16515 |
| 148 | Rajasthan | Kota | 6917157517 | 243471 | 356852 | 226353 | 28411 | 30559 |
| 149 | Gujarat | Narmada | 3087979365 | 109533 | 113840 | 205130 | 28192 | 15054 |
| 150 | West Bengal | Dakshin Dinajpur | 5400738138 | 193195 | 302438 | 411516 | 27955 | 13124 |
| 151 | Uttar Pradesh | Mau | 3508428504 | 125665 | 209197 | 364483 | 27919 | 9626 |
| 152 | Uttar Pradesh | Sant Kabir Nagar | 3268714116 | 117766 | 205900 | 404286 | 27756 | 8085 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|--------------------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 153 | Uttar Pradesh | Auraiya | 3954060342 | 143042 | 223310 | 287573 | 27643 | 13750 |
| 154 | Andhra Pradesh | Khammam | 10885746949 | 394083 | 417891 | 895217 | 27623 | 12160 |
| 155 | Sikkim | South | 482408712 | 17500 | 33250 | 51202 | 27566 | 9422 |
| 156 | West Bengal | Darjeeling | 3969287567 | 144188 | 172739 | 140506 | 27528 | 28250 |
| 157 | Tamil Nadu | Dharmapuri | 8159166852 | 298710 | 348171 | 994167 | 27315 | 8207 |
| 158 | Rajasthan | Baran | 7465428519 | 273726 | 382988 | 340432 | 27273 | 21929 |
| 159 | Tamil Nadu | Krishnagiri | 1635978862 | 60059 | 66604 | 270231 | 27239 | 6054 |
| 160 | Uttar Pradesh | Azamgarh | 8107769079 | 299105 | 493650 | 879356 | 27107 | 9220 |
| 161 | Haryana | Jhajjar | 4208262394 | 156005 | 233216 | 226629 | 26975 | 18569 |
| 162 | Andhra Pradesh | Nellore | 8499701609 | 316588 | 350177 | 758330 | 26848 | 11208 |
| 163 | Uttar Pradesh | Sultanpur | 7577765406 | 283359 | 426470 | 768487 | 26743 | 9861 |
| 164 | Uttar Pradesh | Kanpur (C) | 5047922906 | 191551 | 268616 | 371240 | 26353 | 13597 |
| 165 | Tripura | South (Tripura) | 2319022984 | 88266 | 101654 | 196233 | 26273 | 11818 |
| 166 | Uttar Pradesh | Kanpur (D) | 5848815586 | 222620 | 312355 | 398496 | 26273 | 14677 |
| 167 | Andhra Pradesh | Warangal | 11958739940 | 456267 | 565203 | 1068502 | 26210 | 11192 |
| 168 | Tamil Nadu | Pudukottai | 3588412990 | 137015 | 139012 | 477901 | 26190 | 7509 |
| 169 | Assam | Nagaon | 6124191431 | 234633 | 354801 | 424849 | 26101 | 14415 |
| 170 | Uttar Pradesh | Gonda | 7686053555 | 294649 | 458673 | 784653 | 26085 | 9795 |
| 171 | Uttar Pradesh | Deoria | 5168359433 | 198307 | 321393 | 568650 | 26062 | 9089 |
| 172 | Uttar Pradesh | Ghazipur | 6664832653 | 256118 | 413421 | 693809 | 26022 | 9606 |
| 173 | Tamil Nadu | Coimbatore | 8079052529 | 310740 | 323255 | 574825 | 25999 | 14055 |
| 174 | Uttar Pradesh | Sitapur | 11227652418 | 432795 | 622550 | 891409 | 25942 | 12595 |
| 175 | Orissa | Phulbani | 3073804630 | 118667 | 173783 | 212570 | 25903 | 14460 |
| 176 | West Bengal | 24-Parganas(S) | 9881960582 | 381803 | 542936 | 941326 | 25882 | 10498 |
| 177 | Nagaland | Wokha | 1052107997 | 40760 | 48897 | 37295 | 25812 | 28210 |
| 178 | Tamil Nadu | Madurai | 3132025848 | 121929 | 127689 | 458141 | 25687 | 6836 |
| 179 | Uttar Pradesh | Jaunpur | 7230097420 | 282968 | 440188 | 886254 | 25551 | 8158 |
| 180 | Andhra Pradesh | Visakhapatnam | 7386759296 | 292737 | 372824 | 854539 | 25233 | 8644 |
| 181 | Uttar Pradesh | Basti | 5234938709 | 207587 | 304046 | 601545 | 25218 | 8702 |
| 182 | Karnataka | Dakshina Kannada | 3326139516 | 133765 | 161917 | 91575 | 24866 | 36321 |
| 183 | Karnataka | Chamarajanagar | 3853980786 | 155063 | 194877 | 319349 | 24854 | 12068 |
| 184 | Andaman & Nikobar Island | Island | 939739960 | 38000 | 45000 | 26630 | 24730 | 35289 |
| 185 | Uttar Pradesh | Ballia | 5356392524 | 217359 | 350140 | 562964 | 24643 | 9515 |
| 186 | Uttar Pradesh | Hardoi | 10263013266 | 417875 | 627654 | 863047 | 24560 | 11892 |
| 187 | Arunachal Pradesh | East Siang | 621711405 | 25344 | 33611 | 19477 | 24531 | 31920 |
| 188 | Manipur | Imphal West | 514149064 | 20975 | 20975 | 53586 | 24512 | 9595 |
| 189 | Uttar Pradesh | Varanasi | 2781848948 | 113778 | 157391 | 305230 | 24450 | 9114 |
| 190 | Bihar | Rohtas | 6214117712 | 254293 | 361554 | 549024 | 24437 | 11318 |
| 191 | Uttar Pradesh | Pratapgarh | 5316813720 | 218268 | 327898 | 727177 | 24359 | 7312 |
| 192 | Bihar | Bhabhua | 3699289997 | 153365 | 199726 | 366318 | 24121 | 10099 |
| 193 | Gujarat | Gandhinagar | 3847249619 | 159567 | 199844 | 222653 | 24111 | 17279 |
| 194 | Tripura | West (Tripura) | 2925023948 | 121339 | 130535 | 226119 | 24106 | 12936 |
| 195 | Karnataka | Mandya | 5126437928 | 212835 | 249766 | 619920 | 24086 | 8270 |
| 196 | Madhya Pradesh | Harda | 4082880690 | 169915 | 290472 | 171214 | 24029 | 23847 |
| 197 | Manipur | Bishnupur | 511527799 | 21300 | 21300 | 43153 | 24015 | 11854 |
| 198 | Assam | Darrang | 4888837001 | 205111 | 294319 | 332458 | 23835 | 14705 |
| 199 | Madhya Pradesh | Hoshangabad | 7016180703 | 294835 | 492867 | 245062 | 23797 | 28630 |
| 200 | Sikkim | West | 395186064 | 16630 | 34590 | 39844 | 23763 | 9918 |
| 201 | Meghalaya | East Garo Hills | 760010715 | 32117 | 39414 | 89519 | 23664 | 8490 |
| 202 | Bihar | Katihar | 3829664956 | 162389 | 270964 | 750957 | 23583 | 5100 |
| 203 | Arunachal Pradesh | Lohit | 472756040 | 20057 | 36184 | 38710 | 23571 | 12213 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|------------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 204 | Uttar Pradesh | Allahabad | 8184176752 | 347435 | 517431 | 940655 | 23556 | 8701 |
| 205 | Tamil Nadu | Thiruvannamalai | 4763202710 | 202411 | 256090 | 772091 | 23532 | 6169 |
| 206 | Uttar Pradesh | Lucknow | 3223820791 | 137164 | 207988 | 345753 | 23503 | 9324 |
| 207 | Karnataka | Chickmagalur | 6500307738 | 279950 | 297398 | 257736 | 23220 | 25221 |
| 208 | Gujarat | Jamnagar | 13920907305 | 600900 | 636951 | 346406 | 23167 | 40187 |
| 209 | Orissa | Gajapati | 1837666824 | 79667 | 132473 | 215295 | 23067 | 8536 |
| 210 | Gujarat | Banaskantha | 16866932120 | 734833 | 1063455 | 725724 | 22953 | 23242 |
| 211 | Karnataka | Udupi | 2294436605 | 100062 | 125400 | 184434 | 22930 | 12440 |
| 212 | Rajasthan | Alwar | 11292619590 | 495188 | 759707 | 1035554 | 22805 | 10905 |
| 213 | Rajasthan | Bharatpur | 8914822370 | 391133 | 556419 | 633572 | 22792 | 14071 |
| 214 | Uttar Pradesh | Balrampur | 4709257284 | 206892 | 304966 | 624371 | 22762 | 7542 |
| 215 | Tamil Nadu | Karur | 1980066496 | 87214 | 88435 | 294457 | 22704 | 6724 |
| 216 | Maharashtra | Sindhudurg | 3182661353 | 140300 | 159000 | 271915 | 22685 | 11705 |
| 217 | Himachal Pradesh | Mandi | 1962212053 | 86839 | 158258 | 336722 | 22596 | 5827 |
| 218 | Uttar Pradesh | Fatehpur | 6599257164 | 292139 | 401467 | 682988 | 22589 | 9662 |
| 219 | Uttar Pradesh | Gorakhpur | 5708884806 | 253152 | 388358 | 750876 | 22551 | 7603 |
| 220 | Uttar Pradesh | Raibareli | 5977444956 | 268789 | 409490 | 800490 | 22238 | 7467 |
| 221 | Maharashtra | Hingoli | 7325709577 | 329500 | 521800 | 391924 | 22233 | 18692 |
| 222 | Tamil Nadu | Nagapattinam | 3054080600 | 137701 | 212359 | 382246 | 22179 | 7990 |
| 223 | Andhra Pradesh | Chittoor | 8003497163 | 364896 | 408019 | 1162410 | 21934 | 6885 |
| 224 | Maharashtra | Raigad | 4128764606 | 188500 | 215500 | 457840 | 21903 | 9018 |
| 225 | Madhya Pradesh | Narsinghpur | 6592997594 | 301016 | 402859 | 309809 | 21903 | 21281 |
| 226 | Uttar Pradesh | S.Rabidas Nagar | 1511297146 | 69116 | 99291 | 160321 | 21866 | 9427 |
| 227 | Uttar Pradesh | Unnao | 6444828439 | 294878 | 439013 | 702230 | 21856 | 9178 |
| 228 | Orissa | Jagatsingpur | 2153881691 | 98667 | 182067 | 179734 | 21830 | 11984 |
| 229 | Andhra Pradesh | Prakasam | 11607633094 | 532022 | 571880 | 1051912 | 21818 | 11035 |
| 230 | Uttranchal | Dehradun | 1117802950 | 51500 | 77825 | 102653 | 21705 | 10889 |
| 231 | Uttar Pradesh | Mirzapur | 4526989497 | 208903 | 304645 | 453727 | 21670 | 9977 |
| 232 | Orissa | Ganjam | 8397980529 | 388333 | 649230 | 824466 | 21626 | 10186 |
| 233 | Sikkim | East | 390473084 | 18122 | 27183 | 46044 | 21547 | 8480 |
| 234 | Uttar Pradesh | Bahraich | 7134961803 | 331212 | 505695 | 710202 | 21542 | 10046 |
| 235 | Assam | Dhubri | 3095052736 | 143797 | 220427 | 287460 | 21524 | 10767 |
| 236 | Jammu & Kashmir | Srinagar | 485658163 | 22680 | 28631 | 46704 | 21414 | 10399 |
| 237 | Bihar | Patna | 4425878561 | 206746 | 257732 | 788261 | 21407 | 5615 |
| 238 | Gujarat | Valsad | 3448787607 | 161300 | 180828 | 339232 | 21381 | 10166 |
| 239 | Gujarat | Amreli | 11559039822 | 541300 | 565273 | 382745 | 21354 | 30200 |
| 240 | Madhya Pradesh | Indore | 5420573904 | 255497 | 399231 | 282149 | 21216 | 19212 |
| 241 | Bihar | Aurangabad | 4023529796 | 190147 | 282277 | 533821 | 21160 | 7537 |
| 242 | Gujarat | Bhavnagar | 11633606633 | 550400 | 610696 | 424695 | 21137 | 27393 |
| 243 | Bihar | Gopalganj | 3196742272 | 151384 | 235041 | 523384 | 21117 | 6108 |
| 244 | Gujarat | Kheda | 6443275627 | 305867 | 366092 | 533742 | 21066 | 12072 |
| 245 | Andhra Pradesh | Srikakulam | 6035515796 | 286594 | 387347 | 822348 | 21059 | 7339 |
| 246 | Tamil Nadu | Dindigul | 4792244740 | 228087 | 234070 | 606955 | 21011 | 7896 |
| 247 | Himachal Pradesh | Lahul Spiti | 69532331 | 3311 | 3395 | 11537 | 21000 | 6027 |
| 248 | Uttar Pradesh | Jalaun | 7288185928 | 347307 | 402502 | 395991 | 20985 | 18405 |
| 249 | Orissa | Cuttak | 3493798651 | 166667 | 306240 | 342500 | 20963 | 10201 |
| 250 | Gujarat | Rajkot | 15508897041 | 739900 | 780768 | 440861 | 20961 | 35179 |
| 251 | Orissa | Chenkanal | 3450424802 | 164667 | 259937 | 213365 | 20954 | 16171 |
| 252 | Jharkhand | Koderma | 368632098 | 17658 | 24228 | 110062 | 20876 | 3349 |
| 253 | Rajasthan | Dholpur | 3034954642 | 145913 | 195413 | 242895 | 20800 | 12495 |
| 254 | Bihar | Madhupura | 2761370130 | 133037 | 220901 | 613353 | 20756 | 4502 |
| 255 | Assam | Karbi Anglong | 2618403267 | 126206 | 194316 | 241293 | 20747 | 10852 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 256 | Assam | Lakhimpur | 2062946333 | 99930 | 171929 | 374951 | 20644 | 5502 |
| 257 | Himachal Pradesh | Solan | 799706942 | 38766 | 62884 | 150156 | 20629 | 5326 |
| 258 | Bihar | Chamaparan(West) | 5768249549 | 280367 | 375512 | 972093 | 20574 | 5934 |
| 259 | Uttar Pradesh | G.B. Nagar | 2603284465 | 127726 | 140850 | 126707 | 20382 | 20546 |
| 260 | Bihar | Vaishali | 2607711524 | 128086 | 195446 | 570470 | 20359 | 4571 |
| 261 | Bihar | Bhojpur | 3781960534 | 185845 | 237120 | 486531 | 20350 | 7773 |
| 262 | Madhya Pradesh | Sehore | 7724569518 | 379981 | 564937 | 367632 | 20329 | 21012 |
| 263 | Assam | Kamrup | 3648251828 | 179913 | 251388 | 282724 | 20278 | 12904 |
| 264 | Uttar Pradesh | Kaushambi | 2633580940 | 130196 | 173308 | 402616 | 20228 | 6541 |
| 265 | Jammu & Kashmir | Jammu | 2267854719 | 112210 | 201464 | 162306 | 20211 | 13973 |
| 266 | Madhya Pradesh | Dewas | 7718986649 | 382380 | 542701 | 446274 | 20187 | 17297 |
| 267 | Gujarat | Bharuch | 6649963564 | 329800 | 339072 | 314338 | 20164 | 21155 |
| 268 | Meghalaya | West Garo Hills | 1296961907 | 64328 | 85489 | 152508 | 20162 | 8504 |
| 269 | Uttar Pradesh | Shrawashtri | 2877159155 | 142759 | 216297 | 408859 | 20154 | 7037 |
| 270 | Uttar Pradesh | Siddharthanagar | 4821349118 | 240309 | 342133 | 679834 | 20063 | 7092 |
| 271 | Manipur | Imphal East | 695651741 | 34675 | 34710 | 54574 | 20062 | 12747 |
| 272 | Karnataka | Shimoga | 4315031855 | 215618 | 239689 | 443526 | 20012 | 9729 |
| 273 | Meghalaya | West Khasi Hills | 546836754 | 27335 | 32004 | 111739 | 20005 | 4894 |
| 274 | Bihar | Sahasra | 2214101634 | 111380 | 204843 | 497610 | 19879 | 4449 |
| 275 | Himachal Pradesh | Bilaspur | 598122906 | 30138 | 57534 | 117567 | 19846 | 5088 |
| 276 | Gujarat | Anand | 3222171751 | 162867 | 224366 | 444083 | 19784 | 7256 |
| 277 | Bihar | Supaul | 3024771330 | 153456 | 260819 | 656923 | 19711 | 4604 |
| 278 | Rajasthan | Dausa | 4083375444 | 207436 | 314022 | 399761 | 19685 | 10215 |
| 279 | Assam | Goalpara | 1550814339 | 79264 | 108467 | 150862 | 19565 | 10280 |
| 280 | Daman & Diu | All distrcits | 77988374 | 4000 | 5000 | 5357 | 19497 | 14558 |
| 281 | Jharkhand | East Singhbhum | 1777763337 | 91274 | 176269 | 318835 | 19477 | 5576 |
| 282 | Assam | Kokrajhar | 1649442910 | 84876 | 135574 | 226858 | 19434 | 7271 |
| 283 | Himachal Pradesh | Una | 792665623 | 40797 | 72202 | 126714 | 19430 | 6256 |
| 284 | Karnataka | Mysore | 6853191615 | 352829 | 462342 | 649803 | 19424 | 10547 |
| 285 | Pondicherry | Karaikal | 133838037 | 6900 | 9083 | 19066 | 19397 | 7020 |
| 286 | Arunachal Pradesh | Papumpare | 125527160 | 6498 | 14037 | 12255 | 19318 | 10243 |
| 287 | Andhra Pradesh | Vizianagaram | 5844765702 | 303184 | 408097 | 802491 | 19278 | 7283 |
| 288 | Tamil Nadu | Perambalur | 3780155747 | 196284 | 210572 | 219773 | 19259 | 17200 |
| 289 | Manipur | Thoubal | 576099448 | 29975 | 29975 | 111596 | 19219 | 5162 |
| 290 | Orissa | Sonepur | 2089084839 | 109667 | 173743 | 183053 | 19049 | 11412 |
| 291 | West Bengal | Purulia | 5909741870 | 310640 | 329511 | 758939 | 19024 | 7787 |
| 292 | Orissa | Bargarh | 6259308191 | 329667 | 436057 | 447564 | 18987 | 13985 |
| 293 | Rajasthan | Bundi | 4286730320 | 226948 | 334191 | 329481 | 18889 | 13011 |
| 294 | Jammu & Kashmir | Rajouri | 977379714 | 51865 | 96227 | 151551 | 18845 | 6449 |
| 295 | Orissa | Puri | 2623868693 | 139333 | 247677 | 270536 | 18832 | 9699 |
| 296 | Orissa | Sambalpur | 3370328970 | 179000 | 244567 | 225039 | 18829 | 14977 |
| 297 | Andhra Pradesh | Medak | 8177894816 | 434353 | 540233 | 874377 | 18828 | 9353 |
| 298 | Orissa | Jajpur | 2828445090 | 150333 | 258663 | 249092 | 18814 | 11355 |
| 299 | Rajasthan | Karoli | 3331166876 | 177056 | 265767 | 344344 | 18814 | 9674 |
| 300 | Arunachal Pradesh | Tawang | 77906914 | 4148 | 7018 | 9968 | 18782 | 7816 |
| 301 | Manipur | Ukhrul | 365739940 | 19500 | 19500 | 48788 | 18756 | 7497 |
| 302 | Gujarat | Mehsana | 6499731084 | 346800 | 462853 | 397185 | 18742 | 16364 |
| 303 | Orissa | Angul | 3591008980 | 192000 | 307947 | 263254 | 18703 | 13641 |
| 304 | Assam | Bongaigaon | 1767278929 | 94908 | 156397 | 166352 | 18621 | 10624 |
| 305 | Bihar | Sitamari | 2268780215 | 122051 | 209748 | 677387 | 18589 | 3349 |
| 306 | Himachal Pradesh | Kullu | 685877053 | 36900 | 60982 | 170748 | 18588 | 4017 |
| 307 | Manipur | Senapati | 652597183 | 35305 | 35625 | 158049 | 18485 | 4129 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|---------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 308 | Assam | Barpeta | 3321110452 | 180112 | 277095 | 293531 | 18439 | 11314 |
| 309 | Rajasthan | Jhalawar | 5583657032 | 303022 | 419643 | 450351 | 18427 | 12398 |
| 310 | Bihar | Siwan | 3013960157 | 164041 | 250433 | 548957 | 18373 | 5490 |
| 311 | Rajasthan | Ganganagar | 11840012927 | 645156 | 891204 | 437425 | 18352 | 27068 |
| 312 | Himachal Pradesh | Hamirpur | 645447320 | 35244 | 70144 | 147167 | 18314 | 4386 |
| 313 | Meghalaya | Jainta Hills | 592955766 | 32395 | 32759 | 96402 | 18304 | 6151 |
| 314 | Bihar | Khagaria | 1562263635 | 85435 | 134827 | 376526 | 18286 | 4149 |
| 315 | Maharashtra | Ratnagiri | 4461465258 | 244900 | 255600 | 514982 | 18217 | 8663 |
| 316 | Assam | Marigaon | 1683233409 | 92422 | 124352 | 191759 | 18212 | 8778 |
| 317 | Himachal Pradesh | Kangra | 2120041589 | 116628 | 219058 | 373639 | 18178 | 5674 |
| 318 | Bihar | Buxar | 2518038073 | 138795 | 149001 | 311822 | 18142 | 8075 |
| 319 | Rajasthan | Chittore | 7260595793 | 401977 | 526127 | 720867 | 18062 | 10072 |
| 320 | Uttaranchal | Uttar Kashi | 533416447 | 29552 | 45594 | 104480 | 18050 | 5105 |
| 321 | Jammu & Kashmir | Kathua | 1126898788 | 62689 | 123267 | 115456 | 17976 | 9760 |
| 322 | Bihar | Araria | 3226107268 | 179529 | 282112 | 744186 | 17970 | 4335 |
| 323 | Jammu & Kashmir | Poonch | 493557043 | 27555 | 46158 | 118044 | 17912 | 4181 |
| 324 | Bihar | Begusarai | 2122818940 | 118574 | 176201 | 495529 | 17903 | 4284 |
| 325 | Madhya Pradesh | Neemach | 3362318515 | 188310 | 240626 | 262399 | 17855 | 12814 |
| 326 | Himachal Pradesh | Shimla | 1216680037 | 68287 | 95439 | 248112 | 17817 | 4904 |
| 327 | Madhya Pradesh | Morena | 4564733418 | 257322 | 314826 | 403310 | 17739 | 11318 |
| 328 | Bihar | Sivhar | 460130290 | 25940 | 45652 | 142116 | 17738 | 3238 |
| 329 | Arunachal Pradesh | Changlang | 277876966 | 15669 | 21962 | 45208 | 17734 | 6147 |
| 330 | Assam | Dhemaji | 1115187001 | 63049 | 102097 | 204376 | 17688 | 5457 |
| 331 | Bihar | Jahanabad | 1848245957 | 104543 | 138733 | 466768 | 17679 | 3960 |
| 332 | Orissa | Nayagareh | 2356986622 | 133333 | 219273 | 179523 | 17677 | 13129 |
| 333 | Orissa | Kendrapara | 2446366388 | 138667 | 237780 | 262010 | 17642 | 9337 |
| 334 | Mizoram | Chhimituipui | 223074959 | 12663 | 12663 | 104011 | 17616 | 2145 |
| 335 | Madhya Pradesh | Sheopur kalan | 2065266241 | 117745 | 146616 | 186660 | 17540 | 11064 |
| 336 | Orissa | Bhadrak | 2937640847 | 168000 | 213847 | 261656 | 17486 | 11227 |
| 337 | Karnataka | Davanagere | 6230715705 | 356479 | 413213 | 514822 | 17478 | 12103 |
| 338 | Jharkhand | Godda | 1348599166 | 77180 | 83810 | 342060 | 17473 | 3943 |
| 339 | Orissa | Balasore | 4094561688 | 234333 | 321090 | 433982 | 17473 | 9435 |
| 340 | Nagaland | Kohima | 611910765 | 35042 | 39297 | 79444 | 17462 | 7702 |
| 341 | Nagaland | Phek | 739248424 | 42608 | 48307 | 53455 | 17350 | 13829 |
| 342 | Madhya Pradesh | Tikamgarh | 4388706521 | 253257 | 383642 | 461859 | 17329 | 9502 |
| 343 | Bihar | Samastipur | 3209172455 | 185374 | 250849 | 838141 | 17312 | 3829 |
| 344 | Orissa | Rayagada | 2631237951 | 152000 | 229963 | 298295 | 17311 | 8821 |
| 345 | Uttar Pradesh | Jhansi | 5810550805 | 338570 | 419292 | 393122 | 17162 | 14781 |
| 346 | Madhya Pradesh | Gwalior | 3341249759 | 194696 | 238647 | 213751 | 17161 | 15632 |
| 347 | Manipur | Churachandpur | 494446585 | 28825 | 28885 | 65509 | 17153 | 7548 |
| 348 | Maharashtra | Thane | 4182233310 | 244600 | 260600 | 718322 | 17098 | 5822 |
| 349 | Maharashtra | Washim | 6464767029 | 379533 | 574500 | 392908 | 17033 | 16454 |
| 350 | Karnataka | Hassan | 6411789322 | 376458 | 437475 | 604542 | 17032 | 10606 |
| 351 | Tamil Nadu | Virudhunagar | 2385420949 | 140100 | 144695 | 282202 | 17027 | 8453 |
| 352 | Bihar | Nawadha | 1894631894 | 111387 | 149217 | 545267 | 17009 | 3475 |
| 353 | Himachal Pradesh | Chamba | 716540204 | 42156 | 66961 | 170034 | 16997 | 4214 |
| 354 | Jharkhand | Chatra | 797228032 | 47090 | 50920 | 245707 | 16930 | 3245 |
| 355 | Jammu & Kashmir | Pulwama | 934543039 | 55207 | 81480 | 140828 | 16928 | 6636 |
| 356 | Arunachal Pradesh | East kameng | 130166115 | 7699 | 12653 | 19100 | 16907 | 6815 |
| 357 | Bihar | Muzafarpur | 3478266973 | 205774 | 326989 | 811124 | 16903 | 4288 |
| 358 | Bihar | Gaya | 3317614321 | 197575 | 265566 | 1001463 | 16792 | 3313 |
| 359 | Maharashtra | Satara | 9345963367 | 556700 | 701900 | 929278 | 16788 | 10057 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|----------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 360 | Assam | Nalbari | 2560697130 | 153545 | 211064 | 197740 | 16677 | 12950 |
| 361 | Madhya Pradesh | Bhopal | 2535224538 | 152259 | 208906 | 135531 | 16651 | 18706 |
| 362 | Madhya Pradesh | Datia | 3234056830 | 194323 | 222471 | 247266 | 16643 | 13079 |
| 363 | Nagaland | Mokokchun | 608857428 | 36608 | 42892 | 72258 | 16632 | 8426 |
| 364 | Andhra Pradesh | Cuddapah | 6080173432 | 367380 | 430305 | 738756 | 16550 | 8230 |
| 365 | Bihar | Purnea | 3620207131 | 218838 | 307952 | 830832 | 16543 | 4357 |
| 366 | Andhra Pradesh | Ranga reddy | 4384123439 | 265223 | 287374 | 576390 | 16530 | 7606 |
| 367 | Tamil Nadu | Thiruvavur | 2214763748 | 134274 | 197662 | 354407 | 16494 | 6249 |
| 368 | Karnataka | Belgaum | 12048197794 | 732946 | 893204 | 1295798 | 16438 | 9298 |
| 369 | Maharashtra | Parbhani | 7937277248 | 489967 | 825600 | 496852 | 16200 | 15975 |
| 370 | Jharkhand | Garhwa | 1017002773 | 63097 | 90149 | 341535 | 16118 | 2978 |
| 371 | Uttaranchal | Champawat | 381266871 | 23780 | 38498 | 64859 | 16033 | 5878 |
| 372 | Mizoram | Lunglei | 176017678 | 11005 | 11005 | 48983 | 15995 | 3593 |
| 373 | Uttaranchal | Vageshwar | 379173469 | 23763 | 41477 | 92443 | 15957 | 4102 |
| 374 | Bihar | Kishanganj | 2069246424 | 129930 | 188029 | 351114 | 15926 | 5893 |
| 375 | Orissa | Jharsuguda | 1266634764 | 79667 | 104403 | 88417 | 15899 | 14326 |
| 376 | Jharkhand | Jamtara | 756458073 | 47713 | 49483 | 0 | 15854 | 3948 |
| 377 | Uttar Pradesh | Sonbhadra | 3019688303 | 191885 | 273895 | 394574 | 15737 | 7653 |
| 378 | Uttaranchal | Pithoragarh | 718177110 | 45788 | 82377 | 136811 | 15685 | 5249 |
| 379 | Madhya Pradesh | Khandwa | 6168062185 | 394733 | 470779 | 565262 | 15626 | 11455 |
| 380 | Andhra Pradesh | Kurnool | 13175195158 | 847131 | 928830 | 1192770 | 15553 | 11046 |
| 381 | Tamil Nadu | Ramanathapuram | 2846175263 | 184105 | 184105 | 304045 | 15460 | 9361 |
| 382 | Orissa | Khurda | 2070378916 | 134000 | 218167 | 173894 | 15451 | 11906 |
| 383 | Jharkhand | Latehar | 701460872 | 45428 | 56073 | 0 | 15441 | 3483 |
| 384 | Mizoram | Kolasib | 263047717 | 17063 | 17063 | 21950 | 15417 | 11984 |
| 385 | Meghalaya | South Garo Hills | 281295648 | 18314 | 23041 | 35037 | 15360 | 8029 |
| 386 | Orissa | Deogarh | 1012992881 | 66333 | 98057 | 99078 | 15271 | 10224 |
| 387 | Karnataka | Uttara Kannada | 1646266530 | 108863 | 118988 | 228071 | 15122 | 7218 |
| 388 | Jharkhand | Dumka | 1761033772 | 116813 | 121148 | 637637 | 15076 | 2948 |
| 389 | Rajasthan | Jhunjhunu | 5947501091 | 395462 | 572641 | 529220 | 15039 | 11238 |
| 390 | Bihar | Sheikhpura | 618801364 | 41206 | 52884 | 155168 | 15017 | 3988 |
| 391 | Madhya Pradesh | Shivpuri | 5498189851 | 366192 | 465610 | 541072 | 15015 | 10162 |
| 392 | Bihar | Champaran(east) | 4407072589 | 294198 | 344353 | 1058377 | 14980 | 4164 |
| 393 | Gujarat | Vadodara | 7718774634 | 516600 | 570371 | 808316 | 14941 | 9549 |
| 394 | Mizoram | Aizwal | 289445029 | 19385 | 19385 | 64650 | 14931 | 4477 |
| 395 | Andhra Pradesh | Nalgonda | 6870956125 | 460239 | 534751 | 1081104 | 14929 | 6355 |
| 396 | Bihar | Monghyr | 651336594 | 43640 | 61175 | 192321 | 14925 | 3387 |
| 397 | Bihar | Nalanda | 2694326533 | 180618 | 221632 | 703450 | 14917 | 3830 |
| 398 | Chattisgarh | Dhamtari | 1996004586 | 133883 | 195902 | 281106 | 14909 | 7101 |
| 399 | Jharkhand | Palamu | 1506752272 | 101115 | 124807 | 634040 | 14901 | 3483 |
| 400 | Madhya Pradesh | Bhind | 4822396371 | 323814 | 352516 | 380268 | 14892 | 12682 |
| 401 | Jharkhand | Giridh | 1277407724 | 85858 | 117443 | 479829 | 14878 | 2662 |
| 402 | Orissa | Koraput | 4194014475 | 282333 | 377467 | 416432 | 14855 | 10071 |
| 403 | Orissa | Keonjhar | 4361124254 | 294333 | 426867 | 430796 | 14817 | 10123 |
| 404 | Nagaland | Denapur | 797913477 | 54093 | 65573 | 33674 | 14751 | 23695 |
| 405 | Jharkhand | Hazaribag | 1443385436 | 97953 | 109615 | 488404 | 14735 | 2955 |
| 406 | Karnataka | Bagalkote | 6212410325 | 422694 | 458378 | 470447 | 14697 | 13205 |
| 407 | Jharkhand | Sahibganj | 677281202 | 46108 | 54482 | 248024 | 14689 | 2731 |
| 408 | Madhya Pradesh | Ratlam | 4815960794 | 328168 | 405694 | 409220 | 14675 | 11769 |
| 409 | Sikkim | North | 142160203 | 9740 | 11493 | 11271 | 14596 | 12613 |
| 410 | Karnataka | Bellary | 6220961719 | 426278 | 493684 | 616307 | 14594 | 10094 |
| 411 | Maharashtra | Wardha | 5305933477 | 365567 | 384100 | 388813 | 14514 | 13646 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 412 | Tamil Nadu | Sivagangai | 1594816771 | 109940 | 110032 | 331165 | 14506 | 4816 |
| 413 | Jharkhand | Bokaro | 524850544 | 36264 | 50692 | 227877 | 14473 | 2303 |
| 414 | Nagaland | Mon | 499296937 | 34514 | 39858 | 114119 | 14467 | 4375 |
| 415 | Mizoram | Mamit | 192569287 | 13316 | 13316 | 21479 | 14461 | 8965 |
| 416 | Uttar Pradesh | Hamirpur | 4325504533 | 299769 | 338807 | 314863 | 14429 | 13738 |
| 417 | Bihar | Saran | 2837269221 | 197002 | 238965 | 631843 | 14402 | 4490 |
| 418 | Arunachal Pradesh | Lower Subabsiri | 262051409 | 18208 | 28371 | 34044 | 14392 | 7697 |
| 419 | Rajasthan | S. Madhopur | 3330983262 | 231597 | 303573 | 340304 | 14383 | 9788 |
| 420 | Rajasthan | Jaipur | 8904634003 | 620446 | 867364 | 766459 | 14352 | 11618 |
| 421 | Uttaranchal | Chamoli | 436806720 | 30530 | 46474 | 105265 | 14307 | 4150 |
| 422 | Arunachal Pradesh | West Kameng | 71095256 | 4981 | 7461 | 13539 | 14273 | 5251 |
| 423 | Manipur | Chandel | 156212088 | 10980 | 11000 | 36995 | 14227 | 4223 |
| 424 | Andhra Pradesh | Adilabad | 7654432440 | 538110 | 559037 | 687714 | 14225 | 11130 |
| 425 | Maharashtra | Amravati | 10651781171 | 750067 | 1031100 | 793250 | 14201 | 13428 |
| 426 | Maharashtra | Nanded | 10018987223 | 706167 | 822500 | 912158 | 14188 | 10984 |
| 427 | Uttaranchal | Tehri garhwal | 797700866 | 56847 | 88672 | 188610 | 14033 | 4229 |
| 428 | Jammu & Kashmir | Anantnag | 1084214566 | 77311 | 99906 | 207013 | 14024 | 5237 |
| 429 | Bihar | Bhagalpur | 2056720848 | 146996 | 177249 | 584729 | 13992 | 3517 |
| 430 | Madhya Pradesh | Raisen | 5998657101 | 429224 | 506814 | 295076 | 13976 | 20329 |
| 431 | Maharashtra | Buldhana | 9574572274 | 686333 | 851800 | 840424 | 13950 | 11393 |
| 432 | Gujarat | Sabarkantha | 6112546801 | 439100 | 520614 | 592504 | 13921 | 10316 |
| 433 | Orissa | Boudh | 1186219875 | 85333 | 121393 | 133438 | 13901 | 8890 |
| 434 | Jharkhand | Pakur | 851818027 | 61312 | 69148 | 207489 | 13893 | 4105 |
| 435 | Uttar Pradesh | Banda | 4778558761 | 347692 | 419585 | 473894 | 13744 | 10084 |
| 436 | Uttar Pradesh | Lalitpur | 3461064335 | 252804 | 348361 | 341038 | 13691 | 10149 |
| 437 | Madhya Pradesh | Chhindwara | 6518051845 | 477866 | 566928 | 580004 | 13640 | 11238 |
| 438 | Arunachal Pradesh | Upper Siang | 77702481 | 5716 | 9225 | 11544 | 13594 | 6731 |
| 439 | Maharashtra | Nandurbar | 4017860724 | 296367 | 325300 | 503385 | 13557 | 7982 |
| 440 | Madhya Pradesh | Dhar | 6852026565 | 506202 | 661814 | 663603 | 13536 | 10325 |
| 441 | Madhya Pradesh | Ujjain | 6564121658 | 485551 | 674351 | 511249 | 13519 | 12839 |
| 442 | Nagaland | Thensang | 555914576 | 41439 | 46646 | 158657 | 13415 | 3504 |
| 443 | Bihar | Madhubani | 3026130052 | 225953 | 318838 | 1025155 | 13393 | 2952 |
| 444 | Orissa | Kalahandi | 4653568739 | 347667 | 498010 | 496393 | 13385 | 9375 |
| 445 | Uttar Pradesh | Chitrakoot | 2285632213 | 171249 | 190367 | 279905 | 13347 | 8166 |
| 446 | Madhya Pradesh | Vidisha | 7122775009 | 536940 | 660897 | 336850 | 13265 | 21145 |
| 447 | Jammu & Kashmir | Budgam | 697899846 | 52680 | 57131 | 169426 | 13248 | 4119 |
| 448 | Maharashtra | Akola | 5753938721 | 436867 | 547200 | 449369 | 13171 | 12804 |
| 449 | Madhya Pradesh | Jabalpur | 3568545985 | 271676 | 365031 | 321076 | 13135 | 11114 |
| 450 | Madhya Pradesh | Mandsaur | 4653162516 | 354946 | 439032 | 457223 | 13109 | 10177 |
| 451 | Orissa | Mayurbhanj | 5166212127 | 394667 | 472753 | 684278 | 13090 | 7550 |
| 452 | Jharkhand | Dhanbad | 493113580 | 37749 | 43809 | 157735 | 13063 | 3126 |
| 453 | Jharkhand | Deoghar | 947296124 | 72578 | 76316 | 279999 | 13052 | 3383 |
| 454 | Madhya Pradesh | Shajapur | 5841237723 | 448058 | 593894 | 511666 | 13037 | 11416 |
| 455 | Gujarat | Patan | 5004033755 | 384933 | 441390 | 340850 | 13000 | 14681 |
| 456 | Rajasthan | Hanumangarh | 9652082675 | 747004 | 1039947 | 478210 | 12921 | 20184 |
| 457 | Maharashtra | Bhandara | 4672915598 | 364233 | 434800 | 390786 | 12829 | 11958 |
| 458 | Manipur | Tamenglong | 158532625 | 12360 | 12615 | 41437 | 12826 | 3826 |
| 459 | Jammu & Kashmir | Udhampur | 897158299 | 70175 | 113608 | 235919 | 12785 | 3803 |
| 460 | Orissa | Nawarangpur | 2707099083 | 212333 | 284700 | 418129 | 12749 | 6474 |
| 461 | Maharashtra | Sangli | 7541867980 | 591667 | 690700 | 866868 | 12747 | 8700 |
| 462 | Bihar | Lakhisarai | 873364686 | 69188 | 78201 | 223584 | 12623 | 3906 |
| 463 | Jammu & Kashmir | Baramulla | 1038158983 | 83021 | 95770 | 103681 | 12505 | 10013 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|----------------------|----------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 464 | Chattisgarh | Janjgir | 3255777168 | 261975 | 301250 | 479274 | 12428 | 6793 |
| 465 | Madhya Pradesh | Balaghat | 3405369509 | 274929 | 344377 | 570241 | 12386 | 5972 |
| 466 | Orissa | Bolangir | 4107906776 | 332000 | 425640 | 399816 | 12373 | 10274 |
| 467 | Rajasthan | Sirohi | 1724028266 | 139563 | 177745 | 173595 | 12353 | 9931 |
| 468 | Maharashtra | Nagpur | 6757289169 | 547267 | 591900 | 605432 | 12347 | 11161 |
| 469 | Jharkhand | Seraikela | 815799842 | 66223 | 76300 | 0 | 12319 | 3022 |
| 470 | Orissa | Malkangiri | 1646117486 | 134000 | 193057 | 206797 | 12284 | 7960 |
| 471 | Jharkhand | Lohargada | 565335423 | 46169 | 51019 | 124263 | 12245 | 4550 |
| 472 | Mizoram | Saiha | 167401990 | 13736 | 13736 | 19582 | 12187 | 8549 |
| 473 | Dadra & Nagar Haveli | Dadra & Nagar Haveli | 279564315 | 23000 | 30000 | 54185 | 12155 | 5159 |
| 474 | Chattisgarh | Durg | 6630957987 | 546650 | 733267 | 749675 | 12130 | 8845 |
| 475 | Madhya Pradesh | Chhatarpur | 4563651000 | 377575 | 465993 | 446854 | 12087 | 10213 |
| 476 | Uttaranchal | Rudraprayag | 239573352 | 19838 | 31640 | 77025 | 12077 | 3110 |
| 477 | Maharashtra | Gondia | 2384276595 | 198000 | 240000 | 405072 | 12042 | 5886 |
| 478 | Maharashtra | Yavatmal | 10217151753 | 849300 | 977400 | 891894 | 12030 | 11456 |
| 479 | Chattisgarh | Bilaspur | 4393339805 | 367330 | 468678 | 627876 | 11960 | 6997 |
| 480 | Maharashtra | Pune | 11448124900 | 962500 | 1169400 | 1239962 | 11894 | 9233 |
| 481 | Gujarat | Surendranagar | 8138251082 | 687000 | 723873 | 402429 | 11846 | 20223 |
| 482 | Madhya Pradesh | Betul | 4721006655 | 399650 | 521745 | 489917 | 11813 | 9636 |
| 483 | Bihar | Banka | 1813510347 | 154128 | 161389 | 545772 | 11766 | 3323 |
| 484 | Rajasthan | Sikar | 5726503152 | 487575 | 667446 | 587941 | 11745 | 9740 |
| 485 | Gujarat | Kutch | 6996890630 | 596333 | 597390 | 193415 | 11733 | 36176 |
| 486 | Maharashtra | Latur | 6069763177 | 524667 | 726400 | 631623 | 11569 | 9610 |
| 487 | Karnataka | Chitradurga | 4834874442 | 419078 | 480755 | 520588 | 11537 | 9287 |
| 488 | Madhya Pradesh | Rajgarh | 4786332563 | 415685 | 526588 | 512898 | 11514 | 9332 |
| 489 | Karnataka | Bangalore Rural | 3325283946 | 289586 | 307406 | 553122 | 11483 | 6012 |
| 490 | Rajasthan | Banswara | 2640577875 | 230315 | 301990 | 610244 | 11465 | 4327 |
| 491 | Orissa | Nawapara | 1872574357 | 163333 | 226720 | 190435 | 11465 | 9833 |
| 492 | Maharashtra | Chandrapur | 5132921015 | 449133 | 531100 | 627741 | 11429 | 8177 |
| 493 | Madhya Pradesh | Ashoknagar | 1159545633 | 101541 | 120900 | 62170 | 11419 | 12450 |
| 494 | Jharkhand | Simdega | 1055867243 | 92485 | 97995 | 0 | 11417 | 6102 |
| 495 | Andhra Pradesh | Mahaboobnagar | 8784792558 | 770910 | 839245 | 1333130 | 11395 | 6590 |
| 496 | Maharashtra | Jalna | 6566330906 | 582300 | 740100 | 573153 | 11277 | 11457 |
| 497 | Gujarat | Ahmedabad | 5655260632 | 505733 | 560022 | 365381 | 11182 | 15478 |
| 498 | Karnataka | Kolar | 3610270971 | 323347 | 335000 | 792167 | 11165 | 4557 |
| 499 | Madhya Pradesh | Rewa | 4127069160 | 369826 | 499276 | 676184 | 11159 | 6103 |
| 500 | Karnataka | Bangalore Urban | 819158560 | 73484 | 82070 | 147057 | 11147 | 5570 |
| 501 | Madhya Pradesh | Seoni | 4044741454 | 365686 | 461729 | 473329 | 11061 | 8545 |
| 502 | Rajasthan | Udaipur | 2624163140 | 237397 | 282096 | 702773 | 11054 | 3734 |
| 503 | Karnataka | Koppal | 3590437576 | 326771 | 418252 | 405069 | 10988 | 8864 |
| 504 | Uttar Pradesh | Mahoba | 2608811195 | 239856 | 271572 | 233486 | 10877 | 11173 |
| 505 | Madhya Pradesh | Sagar | 5724804725 | 529907 | 693319 | 439285 | 10803 | 13032 |
| 506 | Madhya Pradesh | Guna | 5475019107 | 509296 | 609801 | 439697 | 10750 | 12450 |
| 507 | Chattisgarh | Raipur | 5869298948 | 549111 | 654739 | 794468 | 10689 | 7388 |
| 508 | Madhya Pradesh | Mandla | 2305991531 | 217295 | 276445 | 395655 | 10612 | 5828 |
| 509 | Madhya Pradesh | Satna | 3788647427 | 358151 | 471103 | 491683 | 10578 | 7705 |
| 510 | Bihar | Jamui | 813664993 | 77431 | 84002 | 375390 | 10508 | 2168 |
| 511 | Bihar | Darbhanga | 1796194726 | 171731 | 196287 | 774226 | 10459 | 2320 |
| 512 | Rajasthan | Rajsamand | 939680941 | 90415 | 102301 | 218274 | 10393 | 4305 |
| 513 | Karnataka | Tumkur | 5810343264 | 559207 | 599490 | 917354 | 10390 | 6334 |
| 514 | Gujarat | Dahod | 2038907335 | 196833 | 218860 | 674136 | 10359 | 3024 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 515 | Madhya Pradesh | Damoh | 3176939875 | 306716 | 382551 | 279645 | 10358 | 11361 |
| 516 | Karnataka | Bidar | 3839936847 | 372238 | 452153 | 349772 | 10316 | 10978 |
| 517 | Arunachal Pradesh | West Siang | 251292395 | 24367 | 28951 | 27965 | 10313 | 8986 |
| 518 | Jharkhand | Gumla | 1753848651 | 171757 | 181991 | 574885 | 10211 | 6102 |
| 519 | Uttaranachal | Pauri Garhwal | 852783758 | 83629 | 127411 | 185535 | 10197 | 4596 |
| 520 | Maharashtra | Nasik | 8933858349 | 876667 | 958100 | 1396102 | 10191 | 6399 |
| 521 | Orissa | Sundargarh | 3088937044 | 304333 | 387697 | 439585 | 10150 | 7027 |
| 522 | Gujarat | Panchmahal | 2748579535 | 271600 | 295993 | 760944 | 10120 | 3612 |
| 523 | Maharashtra | Dhule | 4352468553 | 435433 | 483200 | 538737 | 9996 | 8079 |
| 524 | Arunachal Pradesh | Upper Subansiri | 79141997 | 7923 | 9395 | 15747 | 9989 | 5026 |
| 525 | Maharashtra | Aurangabad | 6919711423 | 694533 | 1033000 | 771498 | 9963 | 8969 |
| 526 | Karnataka | Haveri | 3497373380 | 351826 | 444549 | 496368 | 9941 | 7046 |
| 527 | Uttaranachal | Almora | 817238794 | 83035 | 131455 | 223351 | 9842 | 3659 |
| 528 | Chattisgarh | U.B. Kanker | 2041575049 | 207501 | 219929 | 298250 | 9839 | 6845 |
| 529 | Chattisgarh | Rajnandgaon | 3537456722 | 359700 | 443541 | 518454 | 9834 | 6823 |
| 530 | Arunachal Pradesh | Tirap | 136369826 | 13893 | 19004 | 37237 | 9816 | 3662 |
| 531 | Jharkhand | Ranchi | 2438985409 | 251638 | 270376 | 683245 | 9692 | 3570 |
| 532 | Karnataka | Raichur | 5283598303 | 553161 | 614547 | 533008 | 9552 | 9913 |
| 533 | Chattisgarh | Raigarh | 2647945535 | 280463 | 307954 | 480312 | 9441 | 5513 |
| 534 | Chattisgarh | Kabirdham | 1732584768 | 184811 | 225572 | 254606 | 9375 | 6805 |
| 535 | Chattisgarh | Mahasamund | 2496931893 | 266610 | 286403 | 347282 | 9365 | 7190 |
| 536 | Madhya Pradesh | Khargone | 3811797208 | 409055 | 462656 | 574110 | 9319 | 6639 |
| 537 | Rajasthan | Bhilwara | 3257151280 | 354724 | 440923 | 601764 | 9182 | 5413 |
| 538 | Jharkhand | West Singhbhum | 1204230662 | 134452 | 154913 | 668548 | 8957 | 3022 |
| 539 | Madhya Pradesh | Burhanpur | 307240449 | 34615 | 38923 | 0 | 8876 | 11455 |
| 540 | Chattisgarh | Sarguja | 4288995813 | 485884 | 561742 | 855113 | 8827 | 5016 |
| 541 | Maharashtra | Ahmednagar | 9831931499 | 1116367 | 1516400 | 1348560 | 8807 | 7291 |
| 542 | Chattisgarh | Korba | 1168987211 | 132934 | 143047 | 278660 | 8794 | 4195 |
| 543 | Karnataka | Gulbarga | 10241201877 | 1170079 | 1368501 | 908970 | 8753 | 11267 |
| 544 | Madhya Pradesh | Katni | 1699300133 | 196107 | 258786 | 280179 | 8665 | 6065 |
| 545 | Madhya Pradesh | Barwani | 2008663731 | 232344 | 261792 | 442397 | 8645 | 4540 |
| 546 | Chattisgarh | Jagdalpur | 3020629202 | 351523 | 360221 | 553172 | 8593 | 5461 |
| 547 | Gujarat | Dang | 480413095 | 56233 | 57455 | 79938 | 8543 | 6010 |
| 548 | Madhya Pradesh | Panna | 2041497950 | 243196 | 279421 | 293432 | 8394 | 6957 |
| 549 | Chattisgarh | Koriya | 891300932 | 106361 | 118667 | 201309 | 8380 | 4428 |
| 550 | Madhya Pradesh | Sidhi | 3015192512 | 360006 | 487977 | 622693 | 8375 | 4842 |
| 551 | Rajasthan | Dungarpur | 983161417 | 117918 | 147308 | 405113 | 8338 | 2427 |
| 552 | Jammu & Kashmir | Kargil | 79545227 | 9565 | 10445 | 26161 | 8316 | 3041 |
| 553 | Maharashtra | Gadchiroli | 1388772940 | 169900 | 181500 | 420263 | 8174 | 3305 |
| 554 | Himachal Pradesh | Kinnaur | 59940718 | 7424 | 8840 | 32106 | 8074 | 1867 |
| 555 | Andhra Pradesh | Anantapur | 8038004189 | 1006088 | 1043713 | 1205402 | 7989 | 6668 |
| 556 | Jammu & Kashmir | Doda | 506501047 | 63934 | 85044 | 218655 | 7922 | 2316 |
| 557 | Jammu & Kashmir | Kupwara | 344574124 | 43558 | 45695 | 127800 | 7911 | 2696 |
| 558 | Chattisgarh | Jashpur | 1989922265 | 251687 | 266820 | 349515 | 7906 | 5693 |
| 559 | Madhya Pradesh | Jhabua | 2836749280 | 358856 | 396312 | 639343 | 7905 | 4437 |
| 560 | Rajasthan | Tonk | 3083669670 | 398168 | 463372 | 367086 | 7745 | 8400 |
| 561 | Maharashtra | Osmanabad | 3727451138 | 489867 | 754500 | 526120 | 7609 | 7085 |
| 562 | Madhya Pradesh | Dindori | 1515630911 | 204006 | 266271 | 299131 | 7429 | 5067 |
| 563 | Karnataka | Bijapur | 5345771231 | 728544 | 819661 | 508838 | 7338 | 10506 |
| 564 | Chattisgarh | D.B. Dantewara | 2089065926 | 291102 | 295163 | 336125 | 7176 | 6215 |
| 565 | Rajasthan | Nagaur | 7767417478 | 1086052 | 1248449 | 815672 | 7152 | 9523 |
| 566 | Maharashtra | Beed | 5474860661 | 767400 | 936400 | 761993 | 7134 | 7185 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-----------------|-----------|-----------------------|-------------------|-------------------|------------------|----------------------|------------------------|
| 567 | Madhya Pradesh | Shahdol | 1929782989 | 283088 | 328736 | 506275 | 6817 | 3812 |
| 568 | Rajasthan | Jalore | 4159787807 | 616410 | 755041 | 563005 | 6748 | 7389 |
| 569 | Karnataka | Dharwar | 2154165399 | 328778 | 481810 | 365386 | 6552 | 5896 |
| 570 | Madhya Pradesh | Umaria | 705652747 | 107748 | 138673 | 167749 | 6549 | 4496 |
| 571 | Madhya Pradesh | Anupur | 346364546 | 53875 | 64508 | | 6429 | 4496 |
| 572 | Rajasthan | Pali | 3208447666 | 501586 | 544496 | 408111 | 6397 | 7862 |
| 573 | Rajasthan | Jodhpur | 5955890023 | 935653 | 998571 | 656274 | 6365 | 9075 |
| 574 | Jammu & Kashmir | Leh | 64206668 | 10166 | 10475 | 24689 | 6316 | 2601 |
| 575 | Maharashtra | Solapur | 6303988438 | 1027133 | 1133700 | 1116638 | 6137 | 5646 |
| 576 | Rajasthan | Bikaner | 6822597502 | 1112010 | 1203476 | 406513 | 6135 | 16783 |
| 577 | Rajasthan | Ajmer | 2147184418 | 373766 | 425675 | 410669 | 5745 | 5229 |
| 578 | Karnataka | Gadag | 1841717068 | 388166 | 451779 | 320066 | 4745 | 5754 |
| 579 | Rajasthan | Churu | 3786285696 | 955341 | 1028861 | 660235 | 3963 | 5735 |
| 580 | Rajasthan | Jaisalmer | 1043099031 | 378938 | 420221 | 116734 | 2753 | 8936 |
| 581 | Rajasthan | Barmer | 3776649745 | 1467508 | 1566135 | 716771 | 2574 | 5269 |

Appendix 5
All India Ranking of Districts by Levels of Development, 2001-04
(Base Labour Productivity)

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|----------------------------|----------------------------|-----------------------|-------------------|-------------------|------------------|----------------------|------------------------|
| 1 | Karnataka | Kodagu | 7118069140 | 147135 | 148242 | 31179 | 48378 | 228297 |
| 2 | Pondicherry | Mahe | 27986267 | 630 | 633 | 235 | 44446 | 119090 |
| 3 | Tamil Nadu | The Nilgiris | 6668309285 | 78618 | 78702 | 62171 | 84819 | 107258 |
| 4 | Punjab | Ludhiana | 19556831230 | 305752 | 604681 | 226927 | 63963 | 86181 |
| 5 | Punjab | Kapurthala | 7890247321 | 136065 | 266581 | 94855 | 57989 | 83182 |
| 6 | Punjab | Fatehgarh Sahib | 5879634254 | 103159 | 192416 | 70688 | 56996 | 83177 |
| 7 | Kerala | Kasaragod | 4919505388 | 132964 | 152030 | 61814 | 36999 | 79586 |
| 8 | Punjab | Jalandhar | 12410601418 | 238648 | 414101 | 168140 | 52004 | 73811 |
| 9 | Kerala | Kozhikode | 6604150626 | 159894 | 227058 | 93016 | 41303 | 71000 |
| 10 | Punjab | Sangrur | 26723260791 | 445238 | 872429 | 382398 | 60020 | 69883 |
| 11 | Punjab | Ferozepur | 24930391422 | 474863 | 892608 | 367523 | 52500 | 67834 |
| 12 | Kerala | Idukki | 15886493479 | 227853 | 281730 | 235549 | 69723 | 67445 |
| 13 | Punjab | Muktsar | 11874862322 | 226339 | 440192 | 181864 | 52465 | 65295 |
| 14 | Punjab | Patiala | 17419919295 | 301137 | 588439 | 266819 | 57847 | 65287 |
| 15 | Punjab | Moga | 11796282548 | 199875 | 392342 | 188250 | 59018 | 62663 |
| 16 | Punjab | Bhathinda | 15404871493 | 298001 | 552015 | 255510 | 51694 | 60291 |
| 17 | Kerala | Kottayam | 8111569902 | 171712 | 218485 | 135041 | 47239 | 60067 |
| 18 | Punjab | Mansa | 9772855832 | 194183 | 365248 | 165914 | 50328 | 58903 |
| 19 | Goa | Goa South | 1833407775 | 55639 | 65750 | 32525 | 32952 | 56369 |
| 20 | Kerala | Wayanad | 8000078387 | 116321 | 202831 | 146520 | 68776 | 54601 |
| 21 | Punjab | Nawanshahar | 4666702777 | 98855 | 178122 | 85783 | 47208 | 54401 |
| 22 | Haryana | Sirsa | 15724718806 | 383384 | 672562 | 291231 | 41016 | 53994 |
| 23 | Haryana | Kurukshetra | 7659321733 | 149990 | 265917 | 143913 | 51065 | 53222 |
| 24 | Haryana | Ambala | 5144660536 | 133391 | 201624 | 97022 | 38568 | 53026 |
| 25 | Punjab | Faridkot | 6652817788 | 130512 | 246383 | 129296 | 50975 | 51454 |
| 26 | Haryana | Yamunanagar | 5362688558 | 124795 | 196083 | 104778 | 42972 | 51181 |
| 27 | Punjab | Gurdaspur | 12451121478 | 293333 | 493201 | 244726 | 42447 | 50878 |
| 28 | Kerala | Kannur | 7461417838 | 201331 | 263153 | 151852 | 37060 | 49136 |
| 29 | Punjab | Amritsar | 20394856861 | 450084 | 825065 | 431423 | 45313 | 47273 |
| 30 | Tamil Nadu | Kanyakumari | 4475676887 | 79829 | 93501 | 98066 | 56066 | 45639 |
| 31 | Goa | Goa North | 2458987497 | 85131 | 102884 | 54288 | 28885 | 45295 |
| 32 | Kerala | Ernakulam | 6592715487 | 166277 | 215071 | 147469 | 39649 | 44706 |
| 33 | Haryana | Karnal | 9948717351 | 194918 | 382661 | 229994 | 51041 | 43256 |
| 34 | Assam | Dibrugarh | 7254930876 | 137977 | 178293 | 174905 | 52581 | 41479 |
| 35 | Haryana | Fatehabad | 9901198012 | 223753 | 406774 | 245298 | 44251 | 40364 |
| 36 | Haryana | Kaithal | 9435592303 | 197177 | 383972 | 234773 | 47853 | 40190 |
| 37 | Gujarat | Jamnagar | 13920907305 | 600900 | 636951 | 346406 | 23167 | 40187 |
| 38 | Kerala | Kollam | 7082133364 | 141312 | 195303 | 177887 | 50117 | 39813 |
| 39 | Punjab | Hoshiarpur | 7911251928 | 207473 | 355499 | 208913 | 38131 | 37869 |
| 40 | Punjab | Ropar | 4883731939 | 122807 | 211483 | 129277 | 39767 | 37777 |
| 41 | Kerala | Malappuram | 7988439483 | 198614 | 270626 | 212908 | 40221 | 37521 |
| 42 | Karnataka | Dakshina Kannada | 3326139516 | 133765 | 161917 | 91575 | 24866 | 36321 |
| 43 | Kerala | Pathanamthitta | 4436859930 | 91521 | 116132 | 122256 | 48479 | 36292 |
| 44 | Gujarat | Kutch | 6996890630 | 596333 | 597390 | 193415 | 11733 | 36176 |
| 45 | Andaman &Nikobar Island | Andaman &Nikobar Island | 939739960 | 38000 | 45000 | 26630 | 24730 | 35289 |
| 46 | Gujarat | Rajkot | 15508897041 | 739900 | 780768 | 440861 | 20961 | 35179 |
| 47 | Kerala | Thrissur | 5623834827 | 142428 | 194403 | 161278 | 39485 | 34870 |
| 48 | West Bengal | Jalpaiguri | 16792182497 | 344742 | 519539 | 495462 | 48709 | 33892 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|--------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 49 | Gujarat | Porbandar | 3642579856 | 113233 | 128267 | 109493 | 32169 | 33268 |
| 50 | Haryana | Hisar | 12708939906 | 308459 | 600264 | 392351 | 41201 | 32392 |
| 51 | Uttar Pradesh | Ghaziabad | 7344555046 | 147771 | 237150 | 229148 | 49702 | 32052 |
| 52 | Arunachal Pradesh | East Siang | 621711405 | 25344 | 33611 | 19477 | 24531 | 31920 |
| 53 | Assam | Tinsukia | 5594188667 | 99450 | 141054 | 175405 | 56251 | 31893 |
| 54 | Haryana | Panipat | 4544742963 | 91416 | 184539 | 145252 | 49715 | 31289 |
| 55 | Uttar Pradesh | Meerut | 10329698737 | 199362 | 305585 | 331904 | 51814 | 31123 |
| 56 | Rajasthan | Kota | 6917157517 | 243471 | 356852 | 226353 | 28411 | 30559 |
| 57 | Gujarat | Amreli | 11559039822 | 541300 | 565273 | 382745 | 21354 | 30200 |
| 58 | Maharashtra | Jalgaon | 34209857279 | 852133 | 1325300 | 1144428 | 40146 | 29893 |
| 59 | Haryana | Bhiwani | 11515011383 | 401948 | 723805 | 391046 | 28648 | 29447 |
| 60 | Kerala | Thiruvananthapuram | 6183816547 | 142459 | 188864 | 215767 | 43408 | 28660 |
| 61 | Madhya Pradesh | Hoshangabad | 7016180703 | 294835 | 492867 | 245062 | 23797 | 28630 |
| 62 | Uttaranchal | U.S Nagar | 6163838989 | 149576 | 248861 | 217729 | 41209 | 28310 |
| 63 | West Bengal | Darjeeling | 3969287567 | 144188 | 172739 | 140506 | 27528 | 28250 |
| 64 | Nagaland | Wokha | 1052107997 | 40760 | 48897 | 37295 | 25812 | 28210 |
| 65 | Haryana | Jind | 9823072537 | 241107 | 450789 | 348675 | 40742 | 28173 |
| 66 | Gujarat | Bhavnagar | 11633606633 | 550400 | 610696 | 424695 | 21137 | 27393 |
| 67 | Uttar Pradesh | Bijnor | 13902931818 | 342101 | 444344 | 509265 | 40640 | 27300 |
| 68 | Uttaranchal | Haridwar | 4827906905 | 120844 | 171440 | 177689 | 39952 | 27171 |
| 69 | Rajasthan | Ganganagar | 11840012927 | 645156 | 891204 | 437425 | 18352 | 27068 |
| 70 | Uttar Pradesh | Shahjahanpur | 11515168682 | 350801 | 565517 | 428401 | 32825 | 26879 |
| 71 | Uttar Pradesh | Pilibhit | 8807421218 | 232917 | 381773 | 330833 | 37814 | 26622 |
| 72 | Gujarat | Junagadh | 16247673537 | 525233 | 601724 | 642025 | 30934 | 25307 |
| 73 | Karnataka | Chickmagalur | 6500307738 | 279950 | 297398 | 257736 | 23220 | 25221 |
| 74 | West Bengal | Nadia | 17411807209 | 308291 | 855733 | 693318 | 56479 | 25114 |
| 75 | Assam | Sivasagar | 4629541472 | 137619 | 152995 | 186140 | 33640 | 24871 |
| 76 | Uttar Pradesh | Bagpat | 5617643971 | 110534 | 174803 | 226502 | 50823 | 24802 |
| 77 | Uttar Pradesh | Farrukhabad | 7627020497 | 152531 | 216350 | 313886 | 50003 | 24299 |
| 78 | Madhya Pradesh | Harda | 4082880690 | 169915 | 290472 | 171214 | 24029 | 23847 |
| 79 | Nagaland | Denapur | 797913477 | 54093 | 65573 | 33674 | 14751 | 23695 |
| 80 | Assam | Jorhat | 4506105608 | 119933 | 171044 | 191220 | 37572 | 23565 |
| 81 | Uttar Pradesh | Muzaffarnagar | 16182506904 | 325770 | 475731 | 691794 | 49675 | 23392 |
| 82 | Uttar Pradesh | Agra | 9140106671 | 286684 | 408413 | 392857 | 31882 | 23266 |
| 83 | Gujarat | Banaskantha | 16866932120 | 734833 | 1063455 | 725724 | 22953 | 23242 |
| 84 | Assam | Cachar | 3711539792 | 115489 | 146219 | 159754 | 32138 | 23233 |
| 85 | Uttar Pradesh | Ferozabad | 6116121979 | 180134 | 279185 | 264643 | 33953 | 23111 |
| 86 | Arunachal Pradesh | Dipnag Valley | 360367209 | 9691 | 16475 | 15597 | 37186 | 23105 |
| 87 | Uttar Pradesh | Hathras | 5174495512 | 147137 | 229506 | 230519 | 35168 | 22447 |
| 88 | Haryana | Sonipat | 6212522865 | 159086 | 276213 | 278284 | 39051 | 22324 |
| 89 | West Bengal | Burdwan | 24284215620 | 469781 | 868880 | 1092247 | 51693 | 22233 |
| 90 | Uttar Pradesh | J.B.Fule Nagar | 6743991875 | 170005 | 261493 | 304175 | 39669 | 22171 |
| 91 | Tamil Nadu | Thoothukudi | 5261186048 | 156851 | 160169 | 238702 | 33543 | 22041 |
| 92 | Rajasthan | Baran | 7465428519 | 273726 | 382988 | 340432 | 27273 | 21929 |
| 93 | Haryana | Rohtak | 4176237412 | 141034 | 222799 | 190449 | 29612 | 21928 |
| 94 | Assam | N Kachar Hills | 829876063 | 28316 | 36095 | 38109 | 29308 | 21776 |
| 95 | Kerala | Alappuzha | 2750898242 | 94110 | 126684 | 127869 | 29231 | 21513 |
| 96 | West Bengal | Hooghly | 15567152110 | 225012 | 516862 | 725750 | 69184 | 21450 |
| 97 | Gujarat | Navsari | 6599411139 | 147233 | 174812 | 308641 | 44823 | 21382 |
| 98 | Madhya Pradesh | Narsinghpur | 6592997594 | 301016 | 402859 | 309809 | 21903 | 21281 |
| 99 | Uttar Pradesh | Rampur | 7648625687 | 193215 | 354965 | 360857 | 39586 | 21196 |
| 100 | Gujarat | Bharuch | 6649963564 | 329800 | 339072 | 314338 | 20164 | 21155 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|----------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 101 | Madhya Pradesh | Vidisha | 7122775009 | 536940 | 660897 | 336850 | 13265 | 21145 |
| 102 | Madhya Pradesh | Sehore | 7724569518 | 379981 | 564937 | 367632 | 20329 | 21012 |
| 103 | Uttar Pradesh | Saharanpur | 11143409744 | 274224 | 424997 | 531028 | 40636 | 20985 |
| 104 | Haryana | Gurgaon | 5340502400 | 172128 | 292816 | 254522 | 31026 | 20982 |
| 105 | Uttar Pradesh | G.B. Nagar | 2603284465 | 127726 | 140850 | 126707 | 20382 | 20546 |
| 106 | Haryana | Faridabad | 5719303308 | 146986 | 260954 | 281320 | 38911 | 20330 |
| 107 | Madhya Pradesh | Raisen | 5998657101 | 429224 | 506814 | 295076 | 13976 | 20329 |
| 108 | Gujarat | Surendranagar | 8138251082 | 687000 | 723873 | 402429 | 11846 | 20223 |
| 109 | Rajasthan | Hanumangarh | 9652082675 | 747004 | 1039947 | 478210 | 12921 | 20184 |
| 110 | Uttar Pradesh | Kheri | 16050371089 | 482810 | 712085 | 796645 | 33244 | 20147 |
| 111 | West Bengal | Murshidabad | 18639632977 | 405574 | 912618 | 930265 | 45959 | 20037 |
| 112 | Maharashtra | Kolhapur | 19559612941 | 427733 | 744300 | 979419 | 45729 | 19971 |
| 113 | Tamil Nadu | Namakkal | 8854455756 | 165143 | 227478 | 450157 | 53617 | 19670 |
| 114 | Kerala | Palakkad | 7957748856 | 202925 | 319993 | 404778 | 39215 | 19660 |
| 115 | West Bengal | Howrah | 4270334426 | 83459 | 174332 | 217643 | 51167 | 19621 |
| 116 | Haryana | Panchkula | 789831689 | 25275 | 45106 | 40743 | 31250 | 19386 |
| 117 | Madhya Pradesh | Indore | 5420573904 | 255497 | 399231 | 282149 | 21216 | 19212 |
| 118 | Haryana | Rewari | 3683510283 | 126516 | 192008 | 193713 | 29115 | 19015 |
| 119 | Uttar Pradesh | Eath | 11148996078 | 321803 | 520553 | 588136 | 34645 | 18956 |
| 120 | Assam | Sonitpur | 5605754005 | 165855 | 244006 | 296393 | 33799 | 18913 |
| 121 | West Bengal | Birbhum | 12772634325 | 319540 | 532384 | 676874 | 39972 | 18870 |
| 122 | Assam | Karimganj | 2244459879 | 68683 | 96269 | 119865 | 32679 | 18725 |
| 123 | Madhya Pradesh | Bhopal | 2535224538 | 152259 | 208906 | 135531 | 16651 | 18706 |
| 124 | Maharashtra | Hingoli | 7325709577 | 329500 | 521800 | 391924 | 22233 | 18692 |
| 125 | Haryana | Jhajjar | 4208262394 | 156005 | 233216 | 226629 | 26975 | 18569 |
| 126 | Lakshadweep | All distrcits | 106717617 | 2669 | 2800 | 5781 | 39984 | 18460 |
| 127 | Uttar Pradesh | Aligarh | 8865918809 | 301670 | 493752 | 480517 | 29389 | 18451 |
| 128 | Uttar Pradesh | Jalaun | 7288185928 | 347307 | 402502 | 395991 | 20985 | 18405 |
| 129 | Uttar Pradesh | Mathura | 8033991700 | 270213 | 405646 | 441922 | 29732 | 18180 |
| 130 | Uttar Pradesh | Kannauj | 5873790368 | 142656 | 227392 | 323309 | 41175 | 18168 |
| 131 | Haryana | Mahendragarh | 4181551419 | 141980 | 253901 | 232241 | 29452 | 18005 |
| 132 | Uttar Pradesh | Etawah | 4408069119 | 145262 | 233055 | 246051 | 30346 | 17915 |
| 133 | Andhra Pradesh | W-West Godavari | 20720437837 | 412876 | 636838 | 1164983 | 50186 | 17786 |
| 134 | West Bengal | 24-Parganas(N) | 12375191987 | 266355 | 556503 | 698210 | 46461 | 17724 |
| 135 | Assam | Golaghat | 4002106109 | 117349 | 150561 | 226008 | 34104 | 17708 |
| 136 | Andhra Pradesh | Guntur | 25577167670 | 582288 | 777426 | 1466665 | 43925 | 17439 |
| 137 | Gujarat | Surat | 12802611590 | 429267 | 486100 | 739391 | 29824 | 17315 |
| 138 | Madhya Pradesh | Dewas | 7718986649 | 382380 | 542701 | 446274 | 20187 | 17297 |
| 139 | Gujarat | Gandhinagar | 3847249619 | 159567 | 199844 | 222653 | 24111 | 17279 |
| 140 | Tamil Nadu | Perambalur | 3780155747 | 196284 | 210572 | 219773 | 19259 | 17200 |
| 141 | Uttar Pradesh | Bulandshahar | 10553614918 | 293299 | 493047 | 613873 | 35982 | 17192 |
| 142 | Tripura | North (Tripura) | 1460346829 | 43948 | 69130 | 85531 | 33229 | 17074 |
| 143 | Rajasthan | Bikaner | 6822597502 | 1112010 | 1203476 | 406513 | 6135 | 16783 |
| 144 | Uttar Pradesh | Badaun | 11871300715 | 415493 | 676503 | 718830 | 28572 | 16515 |
| 145 | Maharashtra | Washim | 6464767029 | 379533 | 574500 | 392908 | 17033 | 16454 |
| 146 | Gujarat | Mehsana | 6499731084 | 346800 | 462853 | 397185 | 18742 | 16364 |
| 147 | Assam | Hailakandi | 1450878549 | 46027 | 64878 | 88802 | 31522 | 16338 |
| 148 | Uttar Pradesh | Bareilly | 10505768347 | 328550 | 523444 | 646035 | 31976 | 16262 |
| 149 | Uttar Pradesh | Mainpuri | 5566124863 | 190655 | 291908 | 343873 | 29195 | 16187 |
| 150 | Orissa | Chenkanal | 3450424802 | 164667 | 259937 | 213365 | 20954 | 16171 |
| 151 | Maharashtra | Parbhani | 7937277248 | 489967 | 825600 | 496852 | 16200 | 15975 |
| 152 | Madhya Pradesh | Gwalior | 3341249759 | 194696 | 238647 | 213751 | 17161 | 15632 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-----------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 153 | Gujarat | Ahmedabad | 5655260632 | 505733 | 560022 | 365381 | 11182 | 15478 |
| 154 | Andhra Pradesh | East Godavari | 18556894381 | 399797 | 703171 | 1207356 | 46416 | 15370 |
| 155 | West Bengal | Midnapore (West) | 21531570817 | 532327 | 852095 | 1421429 | 40448 | 15148 |
| 156 | West Bengal | Midnapore (East) | 12585596895 | 325131 | 556796 | 1554000 | 38709 | 15148 |
| 157 | Tamil Nadu | Cuddalore | 9745215494 | 216367 | 279100 | 645096 | 45040 | 15107 |
| 158 | Gujarat | Narmada | 3087979365 | 109533 | 113840 | 205130 | 28192 | 15054 |
| 159 | Orissa | Sambalpur | 3370328970 | 179000 | 244567 | 225039 | 18829 | 14977 |
| 160 | Uttar Pradesh | Moradabad | 9688156011 | 317478 | 536618 | 650938 | 30516 | 14883 |
| 161 | Uttar Pradesh | Jhansi | 5810550805 | 338570 | 419292 | 393122 | 17162 | 14781 |
| 162 | Assam | Darrang | 4888837001 | 205111 | 294319 | 332458 | 23835 | 14705 |
| 163 | Gujarat | Patan | 5004033755 | 384933 | 441390 | 340850 | 13000 | 14681 |
| 164 | Uttar Pradesh | Kanpur (D) | 5848815586 | 222620 | 312355 | 398496 | 26273 | 14677 |
| 165 | Daman & Diu | All districts | 77988374 | 4000 | 5000 | 5357 | 19497 | 14558 |
| 166 | Orissa | Phulbani | 3073804630 | 118667 | 173783 | 212570 | 25903 | 14460 |
| 167 | Assam | Nagaon | 6124191431 | 234633 | 354801 | 424849 | 26101 | 14415 |
| 168 | Orissa | Jharsuguda | 1266634764 | 79667 | 104403 | 88417 | 15899 | 14326 |
| 169 | Andhra Pradesh | Krishna | 15411255573 | 436500 | 640448 | 1090697 | 35306 | 14130 |
| 170 | Rajasthan | Bharatpur | 8914822370 | 391133 | 556419 | 633572 | 22792 | 14071 |
| 171 | Pondicherry | Yaman | 34837651 | 678 | 1272 | 2478 | 51383 | 14059 |
| 172 | Tamil Nadu | Coimbatore | 8079052529 | 310740 | 323255 | 574825 | 25999 | 14055 |
| 173 | Orissa | Bargarh | 6259308191 | 329667 | 436057 | 447564 | 18987 | 13985 |
| 174 | Jammu & Kashmir | Jammu | 2267854719 | 112210 | 201464 | 162306 | 20211 | 13973 |
| 175 | Nagaland | Phek | 739248424 | 42608 | 48307 | 53455 | 17350 | 13829 |
| 176 | Tamil Nadu | Thiruvallur | 4525177108 | 108054 | 145220 | 328273 | 41879 | 13785 |
| 177 | Uttar Pradesh | Auraiya | 3954060342 | 143042 | 223310 | 287573 | 27643 | 13750 |
| 178 | Uttar Pradesh | Hamirpur | 4325504533 | 299769 | 338807 | 314863 | 14429 | 13738 |
| 179 | Maharashtra | Wardha | 5305933477 | 365567 | 384100 | 388813 | 14514 | 13646 |
| 180 | Orissa | Angul | 3591008980 | 192000 | 307947 | 263254 | 18703 | 13641 |
| 181 | Uttar Pradesh | Kanpur (C) | 5047922906 | 191551 | 268616 | 371240 | 26353 | 13597 |
| 182 | Maharashtra | Amravati | 10651781171 | 750067 | 1031100 | 793250 | 14201 | 13428 |
| 183 | West Bengal | Bankura | 12626096005 | 362869 | 510441 | 943017 | 34795 | 13389 |
| 184 | West Bengal | Uttar Dinajpur | 8631336170 | 273432 | 513841 | 647706 | 31567 | 13326 |
| 185 | Karnataka | Bagalkote | 6212410325 | 422694 | 458378 | 470447 | 14697 | 13205 |
| 186 | Pondicherry | Pondicherry | 810064776 | 13759 | 26465 | 61600 | 58874 | 13150 |
| 187 | Orissa | Nayagareh | 2356986622 | 133333 | 219273 | 179523 | 17677 | 13129 |
| 188 | West Bengal | Dakshin Dinajpur | 5400738138 | 193195 | 302438 | 411516 | 27955 | 13124 |
| 189 | Madhya Pradesh | Datia | 3234056830 | 194323 | 222471 | 247266 | 16643 | 13079 |
| 190 | Madhya Pradesh | Sagar | 5724804725 | 529907 | 693319 | 439285 | 10803 | 13032 |
| 191 | Rajasthan | Bundi | 4286730320 | 226948 | 334191 | 329481 | 18889 | 13011 |
| 192 | West Bengal | Malda | 8957013944 | 227951 | 454033 | 689178 | 39294 | 12997 |
| 193 | Assam | Nalbari | 2560697130 | 153545 | 211064 | 197740 | 16677 | 12950 |
| 194 | Tripura | West (Tripura) | 2925023948 | 121339 | 130535 | 226119 | 24106 | 12936 |
| 195 | Tamil Nadu | Erode | 10170461435 | 260123 | 273554 | 787023 | 39099 | 12923 |
| 196 | Assam | Kamrup | 3648251828 | 179913 | 251388 | 282724 | 20278 | 12904 |
| 197 | Madhya Pradesh | Ujjain | 6564121658 | 485551 | 674351 | 511249 | 13519 | 12839 |
| 198 | Madhya Pradesh | Neemach | 3362318515 | 188310 | 240626 | 262399 | 17855 | 12814 |
| 199 | Maharashtra | Akola | 5753938721 | 436867 | 547200 | 449369 | 13171 | 12804 |
| 200 | Manipur | Imphal East | 695651741 | 34675 | 34710 | 54574 | 20062 | 12747 |
| 201 | Madhya Pradesh | Bhind | 4822396371 | 323814 | 352516 | 380268 | 14892 | 12682 |
| 202 | Sikkim | North | 142160203 | 9740 | 11493 | 11271 | 14596 | 12613 |
| 203 | Uttar Pradesh | Sitapur | 11227652418 | 432795 | 622550 | 891409 | 25942 | 12595 |
| 204 | Rajasthan | Dholpur | 3034954642 | 145913 | 195413 | 242895 | 20800 | 12495 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 205 | Madhya Pradesh | Ashoknagar | 1159545633 | 101541 | 120900 | 73099 | 11419 | 12450 |
| 206 | Madhya Pradesh | Guna | 5475019107 | 509296 | 609801 | 439697 | 10750 | 12450 |
| 207 | Karnataka | Udupi | 2294436605 | 100062 | 125400 | 184434 | 22930 | 12440 |
| 208 | Tamil Nadu | Tirunelveli | 6314847468 | 135514 | 157907 | 508268 | 46599 | 12424 |
| 209 | Tamil Nadu | Theni | 4155524882 | 108127 | 116755 | 335068 | 38432 | 12402 |
| 210 | Rajasthan | Jhalawar | 5583657032 | 303022 | 419643 | 450351 | 18427 | 12398 |
| 211 | Arunachal Pradesh | Lohit | 472756040 | 20057 | 36184 | 38710 | 23571 | 12213 |
| 212 | Tamil Nadu | Tiruchirapalli | 6756651238 | 153956 | 166345 | 554380 | 43887 | 12188 |
| 213 | Andhra Pradesh | Khammam | 10885746949 | 394083 | 417891 | 895217 | 27623 | 12160 |
| 214 | Karnataka | Davanagere | 6230715705 | 356479 | 413213 | 514822 | 17478 | 12103 |
| 215 | West Bengal | Cooch Behar | 7817404548 | 260192 | 478594 | 647285 | 30045 | 12077 |
| 216 | Gujarat | Kheda | 6443275627 | 305867 | 366092 | 533742 | 21066 | 12072 |
| 217 | Karnataka | Chamarajanagar | 3853980786 | 155063 | 194877 | 319349 | 24854 | 12068 |
| 218 | Uttar Pradesh | Barabanki | 9378062337 | 263525 | 468293 | 779445 | 35587 | 12032 |
| 219 | Mizoram | Kolasib | 263047717 | 17063 | 17063 | 21950 | 15417 | 11984 |
| 220 | Orissa | Jagatsingpur | 2153881691 | 98667 | 182067 | 179734 | 21830 | 11984 |
| 221 | Maharashtra | Bhandara | 4672915598 | 364233 | 434800 | 390786 | 12829 | 11958 |
| 222 | Orissa | Khurda | 2070378916 | 134000 | 218167 | 173894 | 15451 | 11906 |
| 223 | Uttar Pradesh | Hardoi | 10263013266 | 417875 | 627654 | 863047 | 24560 | 11892 |
| 224 | Manipur | Bishnupur | 511527799 | 21300 | 21300 | 43153 | 24015 | 11854 |
| 225 | Uttar Pradesh | Chandauli | 4048622940 | 137216 | 241219 | 342380 | 29505 | 11825 |
| 226 | Tripura | South (Tripura) | 2319022984 | 88266 | 101654 | 196233 | 26273 | 11818 |
| 227 | Madhya Pradesh | Ratlam | 4815960794 | 328168 | 405694 | 409220 | 14675 | 11769 |
| 228 | Maharashtra | Sindhudurg | 3182661353 | 140300 | 159000 | 271915 | 22685 | 11705 |
| 229 | Rajasthan | Jaipur | 8904634003 | 620446 | 867364 | 766459 | 14352 | 11618 |
| 230 | Tamil Nadu | Thanjavur | 6533395290 | 176501 | 223348 | 563970 | 37016 | 11585 |
| 231 | Maharashtra | Jalna | 6566330906 | 582300 | 740100 | 573153 | 11277 | 11457 |
| 232 | Maharashtra | Yavatmal | 10217151753 | 849300 | 977400 | 891894 | 12030 | 11456 |
| 233 | Madhya Pradesh | Khandwa | 6168062185 | 394733 | 470779 | 565262 | 15626 | 11455 |
| 234 | Madhya Pradesh | Burhanpur | 307240449 | 34615 | 38923 | 0 | 8876 | 11455 |
| 235 | Madhya Pradesh | Shajapur | 5841237723 | 448058 | 593894 | 511666 | 13037 | 11416 |
| 236 | Orissa | Sonepur | 2089084839 | 109667 | 173743 | 183053 | 19049 | 11412 |
| 237 | Maharashtra | Buldhana | 9574572274 | 686333 | 851800 | 840424 | 13950 | 11393 |
| 238 | Madhya Pradesh | Damoh | 3176939875 | 306716 | 382551 | 279645 | 10358 | 11361 |
| 239 | Orissa | Jajpur | 2828445090 | 150333 | 258663 | 249092 | 18814 | 11355 |
| 240 | Meghalaya | East Khasi Hills | 871073418 | 27641 | 36234 | 76748 | 31514 | 11350 |
| 241 | Bihar | Rohtas | 6214117712 | 254293 | 361554 | 549024 | 24437 | 11318 |
| 242 | Madhya Pradesh | Morena | 4564733418 | 257322 | 314826 | 403310 | 17739 | 11318 |
| 243 | Assam | Barpeta | 3321110452 | 180112 | 277095 | 293531 | 18439 | 11314 |
| 244 | Tamil Nadu | Kancheepuram | 4809402451 | 132010 | 164685 | 425258 | 36432 | 11309 |
| 245 | Andhra Pradesh | Karimnagar | 11607499222 | 359603 | 499116 | 1026540 | 32279 | 11307 |
| 246 | Meghalaya | RI BHOI | 769713455 | 26911 | 29377 | 68217 | 28602 | 11283 |
| 247 | Karnataka | Gulbarga | 10241201877 | 1170079 | 1368501 | 908970 | 8753 | 11267 |
| 248 | Rajasthan | Jhunjhunu | 5947501091 | 395462 | 572641 | 529220 | 15039 | 11238 |
| 249 | Madhya Pradesh | Chhindwara | 6518051845 | 477866 | 566928 | 580004 | 13640 | 11238 |
| 250 | Orissa | Bhadrak | 2937640847 | 168000 | 213847 | 261656 | 17486 | 11227 |
| 251 | Andhra Pradesh | Nellore | 8499701609 | 316588 | 350177 | 758330 | 26848 | 11208 |
| 252 | Andhra Pradesh | Warangal | 11958739940 | 456267 | 565203 | 1068502 | 26210 | 11192 |
| 253 | Uttar Pradesh | Mahoba | 2608811195 | 239856 | 271572 | 233486 | 10877 | 11173 |
| 254 | Maharashtra | Nagpur | 6757289169 | 547267 | 591900 | 605432 | 12347 | 11161 |
| 255 | Andhra Pradesh | Nizamabad | 7323195485 | 220626 | 325194 | 657799 | 33193 | 11133 |
| 256 | Andhra Pradesh | Adilabad | 7654432440 | 538110 | 559037 | 687714 | 14225 | 11130 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 257 | Madhya Pradesh | Jabalpur | 3568545985 | 271676 | 365031 | 321076 | 13135 | 11114 |
| 258 | Madhya Pradesh | Sheopur kalan | 2065266241 | 117745 | 146616 | 186660 | 17540 | 11064 |
| 259 | Andhra Pradesh | Kurnool | 13175195158 | 847131 | 928830 | 1192770 | 15553 | 11046 |
| 260 | Andhra Pradesh | Prakasam | 11607633094 | 532022 | 571880 | 1051912 | 21818 | 11035 |
| 261 | Maharashtra | Nanded | 10018987223 | 706167 | 822500 | 912158 | 14188 | 10984 |
| 262 | Karnataka | Bidar | 3839936847 | 372238 | 452153 | 349772 | 10316 | 10978 |
| 263 | Rajasthan | Alwar | 11292619590 | 495188 | 759707 | 1035554 | 22805 | 10905 |
| 264 | Uttranchal | Dehradun | 1117802950 | 51500 | 77825 | 102653 | 21705 | 10889 |
| 265 | Assam | Karbi Anglong | 2618403267 | 126206 | 194316 | 241293 | 20747 | 10852 |
| 266 | Tamil Nadu | Salem | 7526239880 | 218955 | 286936 | 694641 | 34373 | 10835 |
| 267 | Assam | Dhubri | 3095052736 | 143797 | 220427 | 287460 | 21524 | 10767 |
| 268 | Uttar Pradesh | Ambedker Nagar | 5544316115 | 164525 | 279734 | 515129 | 33699 | 10763 |
| 269 | Assam | Bongaigaon | 1767278929 | 94908 | 156397 | 166352 | 18621 | 10624 |
| 270 | Karnataka | Hassan | 6411789322 | 376458 | 437475 | 604542 | 17032 | 10606 |
| 271 | Karnataka | Mysore | 6853191615 | 352829 | 462342 | 649803 | 19424 | 10547 |
| 272 | Karnataka | Bijapur | 5345771231 | 728544 | 819661 | 508838 | 7338 | 10506 |
| 273 | West Bengal | 24-Parganas(S) | 9881960582 | 381803 | 542936 | 941326 | 25882 | 10498 |
| 274 | Jammu & Kashmir | Srinagar | 485658163 | 22680 | 28631 | 46704 | 21414 | 10399 |
| 275 | Uttranchal | Nainital | 1468056523 | 48812 | 81813 | 141717 | 30076 | 10359 |
| 276 | Madhya Pradesh | Dhar | 6852026565 | 506202 | 661814 | 663603 | 13536 | 10325 |
| 277 | Gujarat | Sabarkantha | 6112546801 | 439100 | 520614 | 592504 | 13921 | 10316 |
| 278 | Assam | Goalpara | 1550814339 | 79264 | 108467 | 150862 | 19565 | 10280 |
| 279 | Orissa | Bolangir | 4107906776 | 332000 | 425640 | 399816 | 12373 | 10274 |
| 280 | Arunachal Pradesh | Papumpare | 125527160 | 6498 | 14037 | 12255 | 19318 | 10243 |
| 281 | Orissa | Deogarh | 1012992881 | 66333 | 98057 | 99078 | 15271 | 10224 |
| 282 | Rajasthan | Dausa | 4083375444 | 207436 | 314022 | 399761 | 19685 | 10215 |
| 283 | Madhya Pradesh | Chhatarpur | 4563651000 | 377575 | 465993 | 446854 | 12087 | 10213 |
| 284 | Orissa | Cuttak | 3493798651 | 166667 | 306240 | 342500 | 20963 | 10201 |
| 285 | Orissa | Ganjam | 8397980529 | 388333 | 649230 | 824466 | 21626 | 10186 |
| 286 | Madhya Pradesh | Mandsaur | 4653162516 | 354946 | 439032 | 457223 | 13109 | 10177 |
| 287 | Gujarat | Valsad | 3448787607 | 161300 | 180828 | 339232 | 21381 | 10166 |
| 288 | Madhya Pradesh | Shivpuri | 5498189851 | 366192 | 465610 | 541072 | 15015 | 10162 |
| 289 | Uttar Pradesh | Lalitpur | 3461064335 | 252804 | 348361 | 341038 | 13691 | 10149 |
| 290 | Orissa | Keonjhar | 4361124254 | 294333 | 426867 | 430796 | 14817 | 10123 |
| 291 | Bihar | Bhabhua | 3699289997 | 153365 | 199726 | 366318 | 24121 | 10099 |
| 292 | Karnataka | Bellary | 6220961719 | 426278 | 493684 | 616307 | 14594 | 10094 |
| 293 | Uttar Pradesh | Banda | 4778558761 | 347692 | 419585 | 473894 | 13744 | 10084 |
| 294 | Rajasthan | Chittore | 7260595793 | 401977 | 526127 | 720867 | 18062 | 10072 |
| 295 | Orissa | Koraput | 4194014475 | 282333 | 377467 | 416432 | 14855 | 10071 |
| 296 | Maharashtra | Satara | 9345963367 | 556700 | 701900 | 929278 | 16788 | 10057 |
| 297 | Uttar Pradesh | Bahraich | 7134961803 | 331212 | 505695 | 710202 | 21542 | 10046 |
| 298 | Jammu & Kashmir | Baramulla | 1038158983 | 83021 | 95770 | 103681 | 12505 | 10013 |
| 299 | Uttar Pradesh | Mirzapur | 4526989497 | 208903 | 304645 | 453727 | 21670 | 9977 |
| 300 | Rajasthan | Sirohi | 1724028266 | 139563 | 177745 | 173595 | 12353 | 9931 |
| 301 | Sikkim | West | 395186064 | 16630 | 34590 | 39844 | 23763 | 9918 |
| 302 | Karnataka | Raichur | 5283598303 | 553161 | 614547 | 533008 | 9552 | 9913 |
| 303 | Uttar Pradesh | Sultanpur | 7577765406 | 283359 | 426470 | 768487 | 26743 | 9861 |
| 304 | Orissa | Nawapara | 1872574357 | 163333 | 226720 | 190435 | 11465 | 9833 |
| 305 | Uttar Pradesh | Gonda | 7686053555 | 294649 | 458673 | 784653 | 26085 | 9795 |
| 306 | Rajasthan | S. Madhopur | 3330983262 | 231597 | 303573 | 340304 | 14383 | 9788 |
| 307 | Jammu & Kashmir | Kathua | 1126898788 | 62689 | 123267 | 115456 | 17976 | 9760 |
| 308 | Rajasthan | Sikar | 5726503152 | 487575 | 667446 | 587941 | 11745 | 9740 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 309 | Karnataka | Shimoga | 4315031855 | 215618 | 239689 | 443526 | 20012 | 9729 |
| 310 | Orissa | Puri | 2623868693 | 139333 | 247677 | 270536 | 18832 | 9699 |
| 311 | Rajasthan | Karoli | 3331166876 | 177056 | 265767 | 344344 | 18814 | 9674 |
| 312 | Uttar Pradesh | Fatehpur | 6599257164 | 292139 | 401467 | 682988 | 22589 | 9662 |
| 313 | Madhya Pradesh | Betul | 4721006655 | 399650 | 521745 | 489917 | 11813 | 9636 |
| 314 | Uttar Pradesh | Mau | 3508428504 | 125665 | 209197 | 364483 | 27919 | 9626 |
| 315 | Maharashtra | Latur | 6069763177 | 524667 | 726400 | 631623 | 11569 | 9610 |
| 316 | Uttar Pradesh | Ghazipur | 6664832653 | 256118 | 413421 | 693809 | 26022 | 9606 |
| 317 | Uttar Pradesh | Maharalganj | 6906385747 | 202232 | 358633 | 719497 | 34151 | 9599 |
| 318 | Manipur | Imphal West | 514149064 | 20975 | 20975 | 53586 | 24512 | 9595 |
| 319 | Gujarat | Vadodara | 7718774634 | 516600 | 570371 | 808316 | 14941 | 9549 |
| 320 | Rajasthan | Nagaur | 7767417478 | 1086052 | 1248449 | 815672 | 7152 | 9523 |
| 321 | Uttar Pradesh | Ballia | 5356392524 | 217359 | 350140 | 562964 | 24643 | 9515 |
| 322 | Madhya Pradesh | Tikamgarh | 4388706521 | 253257 | 383642 | 461859 | 17329 | 9502 |
| 323 | Orissa | Balasore | 4094561688 | 234333 | 321090 | 433982 | 17473 | 9435 |
| 324 | Uttar Pradesh | S.Rabidas Nagar | 1511297146 | 69116 | 99291 | 160321 | 21866 | 9427 |
| 325 | Sikkim | South | 482408712 | 17500 | 33250 | 51202 | 27566 | 9422 |
| 326 | Orissa | Kalahandi | 4653568739 | 347667 | 498010 | 496393 | 13385 | 9375 |
| 327 | Tamil Nadu | Ramanathapuram | 2846175263 | 184105 | 184105 | 304045 | 15460 | 9361 |
| 328 | Andhra Pradesh | Medak | 8177894816 | 434353 | 540233 | 874377 | 18828 | 9353 |
| 329 | Orissa | Kendrapara | 2446366388 | 138667 | 237780 | 262010 | 17642 | 9337 |
| 330 | Madhya Pradesh | Rajgarh | 4786332563 | 415685 | 526588 | 512898 | 11514 | 9332 |
| 331 | Uttar Pradesh | Lucknow | 3223820791 | 137164 | 207988 | 345753 | 23503 | 9324 |
| 332 | Karnataka | Belgaum | 12048197794 | 732946 | 893204 | 1295798 | 16438 | 9298 |
| 333 | Karnataka | Chitradurga | 4834874442 | 419078 | 480755 | 520588 | 11537 | 9287 |
| 334 | Tripura | Dhalai | 759875545 | 26447 | 41700 | 81829 | 28732 | 9286 |
| 335 | Maharashtra | Pune | 11448124900 | 962500 | 1169400 | 1239962 | 11894 | 9233 |
| 336 | Uttar Pradesh | Azamgarh | 8107769079 | 299105 | 493650 | 879356 | 27107 | 9220 |
| 337 | Uttar Pradesh | Unnao | 6444828439 | 294878 | 439013 | 702230 | 21856 | 9178 |
| 338 | Uttar Pradesh | Varanasi | 2781848948 | 113778 | 157391 | 305230 | 24450 | 9114 |
| 339 | Uttar Pradesh | Deoria | 5168359433 | 198307 | 321393 | 568650 | 26062 | 9089 |
| 340 | Rajasthan | Jodhpur | 5955890023 | 935653 | 998571 | 656274 | 6365 | 9075 |
| 341 | Maharashtra | Raigad | 4128764606 | 188500 | 215500 | 457840 | 21903 | 9018 |
| 342 | Arunachal Pradesh | West Siang | 251292395 | 24367 | 28951 | 27965 | 10313 | 8986 |
| 343 | Maharashtra | Aurangabad | 6919711423 | 694533 | 1033000 | 771498 | 9963 | 8969 |
| 344 | Mizoram | Mamit | 192569287 | 13316 | 13316 | 21479 | 14461 | 8965 |
| 345 | Rajasthan | Jaisalmer | 1043099031 | 378938 | 420221 | 116734 | 2753 | 8936 |
| 346 | Orissa | Boudh | 1186219875 | 85333 | 121393 | 133438 | 13901 | 8890 |
| 347 | Tamil Nadu | Vellore | 5707424286 | 185582 | 223910 | 643894 | 30754 | 8864 |
| 348 | Karnataka | Koppal | 3590437576 | 326771 | 418252 | 405069 | 10988 | 8864 |
| 349 | Chattisgarh | Durg | 6630957987 | 546650 | 733267 | 749675 | 12130 | 8845 |
| 350 | Orissa | Rayagada | 2631237951 | 152000 | 229963 | 298295 | 17311 | 8821 |
| 351 | Uttar Pradesh | Kushi Nagar | 7291376039 | 222049 | 337106 | 828554 | 32837 | 8800 |
| 352 | Assam | Marigaon | 1683233409 | 92422 | 124352 | 191759 | 18212 | 8778 |
| 353 | Uttar Pradesh | Basti | 5234938709 | 207587 | 304046 | 601545 | 25218 | 8702 |
| 354 | Uttar Pradesh | Allahabad | 8184176752 | 347435 | 517431 | 940655 | 23556 | 8701 |
| 355 | Maharashtra | Sangli | 7541867980 | 591667 | 690700 | 866868 | 12747 | 8700 |
| 356 | Maharashtra | Ratnagiri | 4461465258 | 244900 | 255600 | 514982 | 18217 | 8663 |
| 357 | Andhra Pradesh | Visakhapatnam | 7386759296 | 292737 | 372824 | 854539 | 25233 | 8644 |
| 358 | Mizoram | Saiha | 167401990 | 13736 | 13736 | 19582 | 12187 | 8549 |
| 359 | Madhya Pradesh | Seoni | 4044741454 | 365686 | 461729 | 473329 | 11061 | 8545 |
| 360 | Orissa | Gajapati | 1837666824 | 79667 | 132473 | 215295 | 23067 | 8536 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 361 | Meghalaya | West Garo Hills | 1296961907 | 64328 | 85489 | 152508 | 20162 | 8504 |
| 362 | Meghalaya | East Garo Hills | 760010715 | 32117 | 39414 | 89519 | 23664 | 8490 |
| 363 | Sikkim | East | 390473084 | 18122 | 27183 | 46044 | 21547 | 8480 |
| 364 | Tamil Nadu | Virudhunagar | 2385420949 | 140100 | 144695 | 282202 | 17027 | 8453 |
| 365 | Tamil Nadu | Villupuram | 9455632987 | 293127 | 337503 | 1120328 | 32258 | 8440 |
| 366 | Nagaland | Mokokchun | 608857428 | 36608 | 42892 | 72258 | 16632 | 8426 |
| 367 | Rajasthan | Tonk | 3083669670 | 398168 | 463372 | 367086 | 7745 | 8400 |
| 368 | Karnataka | Mandya | 5126437928 | 212835 | 249766 | 619920 | 24086 | 8270 |
| 369 | Andhra Pradesh | Cuddapah | 6080173432 | 367380 | 430305 | 738756 | 16550 | 8230 |
| 370 | Tamil Nadu | Dharmapuri | 8159166852 | 298710 | 348171 | 994167 | 27315 | 8207 |
| 371 | Maharashtra | Chandrapur | 5132921015 | 449133 | 531100 | 627741 | 11429 | 8177 |
| 372 | Uttar Pradesh | Chitrakoot | 2285632213 | 171249 | 190367 | 279905 | 13347 | 8166 |
| 373 | Uttar Pradesh | Jaunpur | 7230097420 | 282968 | 440188 | 886254 | 25551 | 8158 |
| 374 | Uttar Pradesh | Sant Kabir Nagar | 3268714116 | 117766 | 205900 | 404286 | 27756 | 8085 |
| 375 | Maharashtra | Dhule | 4352468553 | 435433 | 483200 | 538737 | 9996 | 8079 |
| 376 | Bihar | Buxar | 2518038073 | 138795 | 149001 | 311822 | 18142 | 8075 |
| 377 | Meghalaya | South Garo Hills | 281295648 | 18314 | 23041 | 35037 | 15360 | 8029 |
| 378 | Tamil Nadu | Nagapattinam | 3054080600 | 137701 | 212359 | 382246 | 22179 | 7990 |
| 379 | Maharashtra | Nandurbar | 4017860724 | 296367 | 325300 | 503385 | 13557 | 7982 |
| 380 | Orissa | Malkangiri | 1646117486 | 134000 | 193057 | 206797 | 12284 | 7960 |
| 381 | Tamil Nadu | Dindigul | 4792244740 | 228087 | 234070 | 606955 | 21011 | 7896 |
| 382 | Rajasthan | Pali | 3208447666 | 501586 | 544496 | 408111 | 6397 | 7862 |
| 383 | Arunachal Pradesh | Tawang | 77906914 | 4148 | 7018 | 9968 | 18782 | 7816 |
| 384 | West Bengal | Purulia | 5909741870 | 310640 | 329511 | 758939 | 19024 | 7787 |
| 385 | Bihar | Bhojpur | 3781960534 | 185845 | 237120 | 486531 | 20350 | 7773 |
| 386 | Himachal Pradesh | Sirmaur | 1296351182 | 40621 | 74778 | 167626 | 31913 | 7734 |
| 387 | Madhya Pradesh | Satna | 3788647427 | 358151 | 471103 | 491683 | 10578 | 7705 |
| 388 | Nagaland | Kohima | 611910765 | 35042 | 39297 | 79444 | 17462 | 7702 |
| 389 | Arunachal Pradesh | Lower Subansiri | 262051409 | 18208 | 28371 | 34044 | 14392 | 7697 |
| 390 | Uttar Pradesh | Sonbhadra | 3019688303 | 191885 | 273895 | 394574 | 15737 | 7653 |
| 391 | Andhra Pradesh | Ranga reddy | 4384123439 | 265223 | 287374 | 576390 | 16530 | 7606 |
| 392 | Uttar Pradesh | Gorakhpur | 5708884806 | 253152 | 388358 | 750876 | 22551 | 7603 |
| 393 | Orissa | Mayurbhanj | 5166212127 | 394667 | 472753 | 684278 | 13090 | 7550 |
| 394 | Manipur | Churachandpur | 494446585 | 28825 | 28885 | 65509 | 17153 | 7548 |
| 395 | Uttar Pradesh | Balrampur | 4709257284 | 206892 | 304966 | 624371 | 22762 | 7542 |
| 396 | Bihar | Aurangabad | 4023529796 | 190147 | 282277 | 533821 | 21160 | 7537 |
| 397 | Tamil Nadu | Pudukottai | 3588412990 | 137015 | 139012 | 477901 | 26190 | 7509 |
| 398 | Manipur | Ukhrul | 365739940 | 19500 | 19500 | 48788 | 18756 | 7497 |
| 399 | Uttar Pradesh | Raibareli | 5977444956 | 268789 | 409490 | 800490 | 22238 | 7467 |
| 400 | Rajasthan | Jalore | 4159787807 | 616410 | 755041 | 563005 | 6748 | 7389 |
| 401 | Chattisgarh | Raipur | 5869298948 | 549111 | 654739 | 794468 | 10689 | 7388 |
| 402 | Andhra Pradesh | Srikakulam | 6035515796 | 286594 | 387347 | 822348 | 21059 | 7339 |
| 403 | Uttar Pradesh | Pratapgarh | 5316813720 | 218268 | 327898 | 727177 | 24359 | 7312 |
| 404 | Maharashtra | Ahmednagar | 9831931499 | 1116367 | 1516400 | 1348560 | 8807 | 7291 |
| 405 | Andhra Pradesh | Vizianagaram | 5844765702 | 303184 | 408097 | 802491 | 19278 | 7283 |
| 406 | Assam | Kokrajhar | 1649442910 | 84876 | 135574 | 226858 | 19434 | 7271 |
| 407 | Gujarat | Anand | 3222171751 | 162867 | 224366 | 444083 | 19784 | 7256 |
| 408 | Karnataka | Uttara Kannada | 1646266530 | 108863 | 118988 | 228071 | 15122 | 7218 |
| 409 | Chattisgarh | Mahasamund | 2496931893 | 266610 | 286403 | 347282 | 9365 | 7190 |
| 410 | Maharashtra | Beed | 5474860661 | 767400 | 936400 | 761993 | 7134 | 7185 |
| 411 | Chattisgarh | Dhamtari | 1996004586 | 133883 | 195902 | 281106 | 14909 | 7101 |
| 412 | Uttar Pradesh | Siddharthanagar | 4821349118 | 240309 | 342133 | 679834 | 20063 | 7092 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 413 | Maharashtra | Osmanabad | 3727451138 | 489867 | 754500 | 526120 | 7609 | 7085 |
| 414 | Karnataka | Haveri | 3497373380 | 351826 | 444549 | 496368 | 9941 | 7046 |
| 415 | Uttar Pradesh | Shrawastri | 2877159155 | 142759 | 216297 | 408859 | 20154 | 7037 |
| 416 | Orissa | Sundargarh | 3088937044 | 304333 | 387697 | 439585 | 10150 | 7027 |
| 417 | Pondicherry | Karaikal | 133838037 | 6900 | 9083 | 19066 | 19397 | 7020 |
| 418 | Chattisgarh | Bilaspur | 4393339805 | 367330 | 468678 | 627876 | 11960 | 6997 |
| 419 | Uttar Pradesh | Faizabad | 4333648234 | 146107 | 225758 | 621268 | 29661 | 6975 |
| 420 | Madhya Pradesh | Panna | 2041497950 | 243196 | 279421 | 293432 | 8394 | 6957 |
| 421 | Andhra Pradesh | Chittoor | 8003497163 | 364896 | 408019 | 1162410 | 21934 | 6885 |
| 422 | Chattisgarh | U.B. Kanker | 2041575049 | 207501 | 219929 | 298250 | 9839 | 6845 |
| 423 | Tamil Nadu | Madurai | 3132025848 | 121929 | 127689 | 458141 | 25687 | 6836 |
| 424 | Chattisgarh | Rajnandgaon | 3537456722 | 359700 | 443541 | 518454 | 9834 | 6823 |
| 425 | Arunachal Pradesh | East kameng | 130166115 | 7699 | 12653 | 19100 | 16907 | 6815 |
| 426 | Chattisgarh | Kabirdham | 1732584768 | 184811 | 225572 | 254606 | 9375 | 6805 |
| 427 | Chattisgarh | Janjgir | 3255777168 | 261975 | 301250 | 479274 | 12428 | 6793 |
| 428 | Arunachal Pradesh | Upper Siang | 77702481 | 5716 | 9225 | 11544 | 13594 | 6731 |
| 429 | Tamil Nadu | Karur | 1980066496 | 87214 | 88435 | 294457 | 22704 | 6724 |
| 430 | Andhra Pradesh | Anantapur | 8038004189 | 1006088 | 1043713 | 1205402 | 7989 | 6668 |
| 431 | Madhya Pradesh | Khargone | 3811797208 | 409055 | 462656 | 574110 | 9319 | 6639 |
| 432 | Jammu & Kashmir | Pulwama | 934543039 | 55207 | 81480 | 140828 | 16928 | 6636 |
| 433 | Andhra Pradesh | Mahaboobnagar | 8784792558 | 770910 | 839245 | 1333130 | 11395 | 6590 |
| 434 | Uttar Pradesh | Kaushambi | 2633580940 | 130196 | 173308 | 402616 | 20228 | 6541 |
| 435 | Orissa | Nawarangpur | 2707099083 | 212333 | 284700 | 418129 | 12749 | 6474 |
| 436 | Jammu & Kashmir | Rajouri | 977379714 | 51865 | 96227 | 151551 | 18845 | 6449 |
| 437 | Maharashtra | Nasik | 8933858349 | 876667 | 958100 | 1396102 | 10191 | 6399 |
| 438 | Andhra Pradesh | Nalgonda | 6870956125 | 460239 | 534751 | 1081104 | 14929 | 6355 |
| 439 | Karnataka | Tumkur | 5810343264 | 559207 | 599490 | 917354 | 10390 | 6334 |
| 440 | Himachal Pradesh | Una | 792665623 | 40797 | 72202 | 126714 | 19430 | 6256 |
| 441 | Tamil Nadu | Thiruvavur | 2214763748 | 134274 | 197662 | 354407 | 16494 | 6249 |
| 442 | Chattisgarh | D.B. Dantewara | 2089065926 | 291102 | 295163 | 336125 | 7176 | 6215 |
| 443 | Tamil Nadu | Thiruvannamalai | 4763202710 | 202411 | 256090 | 772091 | 23532 | 6169 |
| 444 | Meghalaya | Jainta Hills | 592955766 | 32395 | 32759 | 96402 | 18304 | 6151 |
| 445 | Arunachal Pradesh | Changlang | 277876966 | 15669 | 21962 | 45208 | 17734 | 6147 |
| 446 | Bihar | Gopalganj | 3196742272 | 151384 | 235041 | 523384 | 21117 | 6108 |
| 447 | Madhya Pradesh | Rewa | 4127069160 | 369826 | 499276 | 676184 | 11159 | 6103 |
| 448 | Jharkhand | Simdega | 1055867243 | 92485 | 97995 | 0 | 11417 | 6102 |
| 449 | Jharkhand | Gumla | 1753848651 | 171757 | 181991 | 574885 | 10211 | 6102 |
| 450 | Madhya Pradesh | Katni | 1699300133 | 196107 | 258786 | 280179 | 8665 | 6065 |
| 451 | Tamil Nadu | Krishnagiri | 1635978862 | 60059 | 66604 | 270231 | 27239 | 6054 |
| 452 | Himachal Pradesh | Lahul Spiti | 69532331 | 3311 | 3395 | 11537 | 21000 | 6027 |
| 453 | Karnataka | Bangalore Rural | 3325283946 | 289586 | 307406 | 553122 | 11483 | 6012 |
| 454 | Gujarat | Dang | 480413095 | 56233 | 57455 | 79938 | 8543 | 6010 |
| 455 | Madhya Pradesh | Balaghat | 3405369509 | 274929 | 344377 | 570241 | 12386 | 5972 |
| 456 | Bihar | Chamaparan(West) | 5768249549 | 280367 | 375512 | 972093 | 20574 | 5934 |
| 457 | Karnataka | Dharwar | 2154165399 | 328778 | 481810 | 365386 | 6552 | 5896 |
| 458 | Bihar | Kishanganj | 2069246424 | 129930 | 188029 | 351114 | 15926 | 5893 |
| 459 | Maharashtra | Gondia | 2384276595 | 198000 | 240000 | 405072 | 12042 | 5886 |
| 460 | Uttaranchal | Champawat | 381266871 | 23780 | 38498 | 64859 | 16033 | 5878 |
| 461 | Madhya Pradesh | Mandla | 2305991531 | 217295 | 276445 | 395655 | 10612 | 5828 |
| 462 | Himachal Pradesh | Mandi | 1962212053 | 86839 | 158258 | 336722 | 22596 | 5827 |
| 463 | Maharashtra | Thane | 4182233310 | 244600 | 260600 | 718322 | 17098 | 5822 |
| 464 | Karnataka | Gadag | 1841717068 | 388166 | 451779 | 320066 | 4745 | 5754 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|----------------------|----------------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 465 | Rajasthan | Churu | 3786285696 | 955341 | 1028861 | 660235 | 3963 | 5735 |
| 466 | Chattisgarh | Jashpur | 1989922265 | 251687 | 266820 | 349515 | 7906 | 5693 |
| 467 | Himachal Pradesh | Kangra | 2120041589 | 116628 | 219058 | 373639 | 18178 | 5674 |
| 468 | Maharashtra | Solapur | 6303988438 | 1027133 | 1133700 | 1116638 | 6137 | 5646 |
| 469 | Bihar | Patna | 4425878561 | 206746 | 257732 | 788261 | 21407 | 5615 |
| 470 | Jharkhand | East Singhbhum | 1777763337 | 91274 | 176269 | 318835 | 19477 | 5576 |
| 471 | Karnataka | Bangalore Urban | 819158560 | 73484 | 82070 | 147057 | 11147 | 5570 |
| 472 | Chattisgarh | Raigarh | 2647945535 | 280463 | 307954 | 480312 | 9441 | 5513 |
| 473 | Assam | Lakhimpur | 2062946333 | 99930 | 171929 | 374951 | 20644 | 5502 |
| 474 | Bihar | Siwan | 3013960157 | 164041 | 250433 | 548957 | 18373 | 5490 |
| 475 | Chattisgarh | Jagdalpur | 3020629202 | 351523 | 360221 | 553172 | 8593 | 5461 |
| 476 | Assam | Dhemaji | 1115187001 | 63049 | 102097 | 204376 | 17688 | 5457 |
| 477 | Rajasthan | Bhilwara | 3257151280 | 354724 | 440923 | 601764 | 9182 | 5413 |
| 478 | Himachal Pradesh | Solan | 799706942 | 38766 | 62884 | 150156 | 20629 | 5326 |
| 479 | Rajasthan | Barmer | 3776649745 | 1467508 | 1566135 | 716771 | 2574 | 5269 |
| 480 | Arunachal Pradesh | West Kameng | 71095256 | 4981 | 7461 | 13539 | 14273 | 5251 |
| 481 | Uttranchal | Pithoragarh | 718177110 | 45788 | 82377 | 136811 | 15685 | 5249 |
| 482 | Jammu & Kashmir | Anantnag | 1084214566 | 77311 | 99906 | 207013 | 14024 | 5237 |
| 483 | Rajasthan | Ajmer | 2147184418 | 373766 | 425675 | 410669 | 5745 | 5229 |
| 484 | Manipur | Thoubal | 576099448 | 29975 | 29975 | 111596 | 19219 | 5162 |
| 485 | Dadra & Nagar Haveli | Dadra & Nagar Haveli | 279564315 | 23000 | 30000 | 54185 | 12155 | 5159 |
| 486 | Uttranchal | Uttar Kashi | 533416447 | 29552 | 45594 | 104480 | 18050 | 5105 |
| 487 | Bihar | Katihar | 3829664956 | 162389 | 270964 | 750957 | 23583 | 5100 |
| 488 | Himachal Pradesh | Bilaspur | 598122906 | 30138 | 57534 | 117567 | 19846 | 5088 |
| 489 | Madhya Pradesh | Dindori | 1515630911 | 204006 | 266271 | 299131 | 7429 | 5067 |
| 490 | Arunachal Pradesh | Upper Subansiri | 79141997 | 7923 | 9395 | 15747 | 9989 | 5026 |
| 491 | Chattisgarh | Sarguja | 4288995813 | 485884 | 561742 | 855113 | 8827 | 5016 |
| 492 | Himachal Pradesh | Shimla | 1216680037 | 68287 | 95439 | 248112 | 17817 | 4904 |
| 493 | Meghalaya | West Khasi Hills | 546836754 | 27335 | 32004 | 111739 | 20005 | 4894 |
| 494 | Madhya Pradesh | Sidhi | 3015192512 | 360006 | 487977 | 622693 | 8375 | 4842 |
| 495 | Tamil Nadu | Sivagangai | 1594816771 | 109940 | 110032 | 331165 | 14506 | 4816 |
| 496 | Bihar | Supaul | 3024771330 | 153456 | 260819 | 656923 | 19711 | 4604 |
| 497 | Uttranchal | Pauri Garhwal | 852783758 | 83629 | 127411 | 185535 | 10197 | 4596 |
| 498 | Bihar | Vaishali | 2607711524 | 128086 | 195446 | 570470 | 20359 | 4571 |
| 499 | Karnataka | Kolar | 3610270971 | 323347 | 335000 | 792167 | 11165 | 4557 |
| 500 | Jharkhand | Lohargada | 565335423 | 46169 | 51019 | 124263 | 12245 | 4550 |
| 501 | Madhya Pradesh | Barwani | 2008663731 | 232344 | 261792 | 442397 | 8645 | 4540 |
| 502 | Bihar | Madhupura | 2761370130 | 133037 | 220901 | 613353 | 20756 | 4502 |
| 503 | Madhya Pradesh | Umariya | 705652747 | 107748 | 138673 | 167749 | 6549 | 4496 |
| 504 | Madhya Pradesh | Anupur | 346364546 | 53875 | 64508 | | 6429 | 4496 |
| 505 | Bihar | Saran | 2837269221 | 197002 | 238965 | 631843 | 14402 | 4490 |
| 506 | Mizoram | Aizwal | 289445029 | 19385 | 19385 | 64650 | 14931 | 4477 |
| 507 | Bihar | Sahasra | 2214101634 | 111380 | 204843 | 497610 | 19879 | 4449 |
| 508 | Madhya Pradesh | Jhabua | 2836749280 | 358856 | 396312 | 639343 | 7905 | 4437 |
| 509 | Chattisgarh | Koriya | 891300932 | 106361 | 118667 | 201309 | 8380 | 4428 |
| 510 | Himachal Pradesh | Hamirpur | 645447320 | 35244 | 70144 | 147167 | 18314 | 4386 |
| 511 | Nagaland | Mon | 499296937 | 34514 | 39858 | 114119 | 14467 | 4375 |
| 512 | Bihar | Purnea | 3620207131 | 218838 | 307952 | 830832 | 16543 | 4357 |
| 513 | Bihar | Araria | 3226107268 | 179529 | 282112 | 744186 | 17970 | 4335 |
| 514 | Rajasthan | Banswara | 2640577875 | 230315 | 301990 | 610244 | 11465 | 4327 |
| 515 | Rajasthan | Rajsamand | 939680941 | 90415 | 102301 | 218274 | 10393 | 4305 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|-------------------|-----------------|--------------------|----------------|----------------|---------------|-------------------|---------------------|
| 516 | Bihar | Muzafarpur | 3478266973 | 205774 | 326989 | 811124 | 16903 | 4288 |
| 517 | Bihar | Begusarai | 2122818940 | 118574 | 176201 | 495529 | 17903 | 4284 |
| 518 | Uttranchal | Tehri garhwal | 797700866 | 56847 | 88672 | 188610 | 14033 | 4229 |
| 519 | Manipur | Chandel | 156212088 | 10980 | 11000 | 36995 | 14227 | 4223 |
| 520 | Himachal Pradesh | Chamba | 716540204 | 42156 | 66961 | 170034 | 16997 | 4214 |
| 521 | Chattisgarh | Korba | 1168987211 | 132934 | 143047 | 278660 | 8794 | 4195 |
| 522 | Jammu & Kashmir | Poonch | 493557043 | 27555 | 46158 | 118044 | 17912 | 4181 |
| 523 | Bihar | Champaran(east) | 4407072589 | 294198 | 344353 | 1058377 | 14980 | 4164 |
| 524 | Uttranchal | Chamoli | 436806720 | 30530 | 46474 | 105265 | 14307 | 4150 |
| 525 | Bihar | Khagaria | 1562263635 | 85435 | 134827 | 376526 | 18286 | 4149 |
| 526 | Manipur | Senapati | 652597183 | 35305 | 35625 | 158049 | 18485 | 4129 |
| 527 | Jammu & Kashmir | Budgam | 697899846 | 52680 | 57131 | 169426 | 13248 | 4119 |
| 528 | Jharkhand | Pakur | 851818027 | 61312 | 69148 | 207489 | 13893 | 4105 |
| 529 | Uttranchal | Vageshwar | 379173469 | 23763 | 41477 | 92443 | 15957 | 4102 |
| 530 | Himachal Pradesh | Kullu | 685877053 | 36900 | 60982 | 170748 | 18588 | 4017 |
| 531 | Bihar | Sheikhpura | 618801364 | 41206 | 52884 | 155168 | 15017 | 3988 |
| 532 | Bihar | Jahanabad | 1848245957 | 104543 | 138733 | 466768 | 17679 | 3960 |
| 533 | Jharkhand | Jamtara | 756458073 | 47713 | 49483 | 0 | 15854 | 3948 |
| 534 | Jharkhand | Godda | 1348599166 | 77180 | 83810 | 342060 | 17473 | 3943 |
| 535 | Bihar | Lakhisarai | 873364686 | 69188 | 78201 | 223584 | 12623 | 3906 |
| 536 | Bihar | Nalanda | 2694326533 | 180618 | 221632 | 703450 | 14917 | 3830 |
| 537 | Bihar | Samastipur | 3209172455 | 185374 | 250849 | 838141 | 17312 | 3829 |
| 538 | Manipur | Tamenglong | 158532625 | 12360 | 12615 | 41437 | 12826 | 3826 |
| 539 | Madhya Pradesh | Shahdol | 1929782989 | 283088 | 328736 | 506275 | 6817 | 3812 |
| 540 | Jammu & Kashmir | Udhampur | 897158299 | 70175 | 113608 | 235919 | 12785 | 3803 |
| 541 | Rajasthan | Udaipur | 2624163140 | 237397 | 282096 | 702773 | 11054 | 3734 |
| 542 | Arunachal Pradesh | Tirap | 136369826 | 13893 | 19004 | 37237 | 9816 | 3662 |
| 543 | Uttranchal | Almora | 817238794 | 83035 | 131455 | 223351 | 9842 | 3659 |
| 544 | Gujarat | Panchmahal | 2748579535 | 271600 | 295993 | 760944 | 10120 | 3612 |
| 545 | Mizoram | Lunglei | 176017678 | 11005 | 11005 | 48983 | 15995 | 3593 |
| 546 | Jharkhand | Ranchi | 2438985409 | 251638 | 270376 | 683245 | 9692 | 3570 |
| 547 | Bihar | Bhagalpur | 2056720848 | 146996 | 177249 | 584729 | 13992 | 3517 |
| 548 | Nagaland | Thensang | 555914576 | 41439 | 46646 | 158657 | 13415 | 3504 |
| 549 | Jharkhand | Latehar | 701460872 | 45428 | 56073 | 0 | 15441 | 3483 |
| 550 | Jharkhand | Palamu | 1506752272 | 101115 | 124807 | 634040 | 14901 | 3483 |
| 551 | Bihar | Nawadha | 1894631894 | 111387 | 149217 | 545267 | 17009 | 3475 |
| 552 | Bihar | Monghyr | 651336594 | 43640 | 61175 | 192321 | 14925 | 3387 |
| 553 | Jharkhand | Deoghar | 947296124 | 72578 | 76316 | 279999 | 13052 | 3383 |
| 554 | Jharkhand | Koderma | 368632098 | 17658 | 24228 | 110062 | 20876 | 3349 |
| 555 | Bihar | Sitamari | 2268780215 | 122051 | 209748 | 677387 | 18589 | 3349 |
| 556 | Bihar | Banka | 1813510347 | 154128 | 161389 | 545772 | 11766 | 3323 |
| 557 | Bihar | Gaya | 3317614321 | 197575 | 265566 | 1001463 | 16792 | 3313 |
| 558 | Maharashtra | Gadchiroli | 1388772940 | 169900 | 181500 | 420263 | 8174 | 3305 |
| 559 | Jharkhand | Chatra | 797228032 | 47090 | 50920 | 245707 | 16930 | 3245 |
| 560 | Bihar | Sivhar | 460130290 | 25940 | 45652 | 142116 | 17738 | 3238 |
| 561 | Jharkhand | Dhanbad | 493113580 | 37749 | 43809 | 157735 | 13063 | 3126 |
| 562 | Uttranchal | Rudraprayag | 239573352 | 19838 | 31640 | 77025 | 12077 | 3110 |
| 563 | Jammu & Kashmir | Kargil | 79545227 | 9565 | 10445 | 26161 | 8316 | 3041 |
| 564 | Gujarat | Dahod | 2038907335 | 196833 | 218860 | 674136 | 10359 | 3024 |
| 565 | Jharkhand | Seraikela | 815799842 | 66223 | 76300 | 0 | 12319 | 3022 |
| 566 | Jharkhand | West Singhbhum | 1204230662 | 134452 | 154913 | 668548 | 8957 | 3022 |
| 567 | Jharkhand | Garhwa | 1017002773 | 63097 | 90149 | 341535 | 16118 | 2978 |

| Rank | State | District | Value Output (Rs.) | NAS (Hectares) | GCA (Hectares) | Agri. Workers | Land Productivity | Labour Productivity |
|------|------------------|--------------|-----------------------|-------------------|-------------------|------------------|----------------------|------------------------|
| 568 | Jharkhand | Hazaribag | 1443385436 | 97953 | 109615 | 488404 | 14735 | 2955 |
| 569 | Bihar | Madhubani | 3026130052 | 225953 | 318838 | 1025155 | 13393 | 2952 |
| 570 | Jharkhand | Dumka | 1761033772 | 116813 | 121148 | 637637 | 15076 | 2948 |
| 571 | Jharkhand | Sahibganj | 677281202 | 46108 | 54482 | 248024 | 14689 | 2731 |
| 572 | Jammu & Kashmir | Kupwara | 344574124 | 43558 | 45695 | 127800 | 7911 | 2696 |
| 573 | Jharkhand | Giridh | 1277407724 | 85858 | 117443 | 479829 | 14878 | 2662 |
| 574 | Jammu & Kashmir | Leh | 64206668 | 10166 | 10475 | 24689 | 6316 | 2601 |
| 575 | Rajasthan | Dungarpur | 983161417 | 117918 | 147308 | 405113 | 8338 | 2427 |
| 576 | Bihar | Darbhanga | 1796194726 | 171731 | 196287 | 774226 | 10459 | 2320 |
| 577 | Jammu & Kashmir | Doda | 506501047 | 63934 | 85044 | 218655 | 7922 | 2316 |
| 578 | Jharkhand | Bokaro | 524850544 | 36264 | 50692 | 227877 | 14473 | 2303 |
| 579 | Bihar | Jamui | 813664993 | 77431 | 84002 | 375390 | 10508 | 2168 |
| 580 | Mizoram | Chhingtuipei | 223074959 | 12663 | 12663 | 104011 | 17616 | 2145 |
| 581 | Himachal Pradesh | Kinnaur | 59940718 | 7424 | 8840 | 32106 | 8074 | 1867 |

Appendix- 6
District wise Growth of Agricultural Production, 1990-93 to 2001-04

| Sr No | State | District | Growth Rate (% per year) |
|--------------|----------------|-----------------|-------------------------------------|
| 1 | Andhra Pradesh | Adilabad | 7.62 |
| 2 | Andhra Pradesh | Anantapur | -2.58 |
| 3 | Andhra Pradesh | Chittoor | -2.00 |
| 4 | Andhra Pradesh | Cuddapah | 1.10 |
| 5 | Andhra Pradesh | East Godavari | 0.42 |
| 6 | Andhra Pradesh | Guntur | 0.73 |
| 7 | Andhra Pradesh | Karimnagar | 0.83 |
| 8 | Andhra Pradesh | Khammam | 1.00 |
| 9 | Andhra Pradesh | Krishna | 0.10 |
| 10 | Andhra Pradesh | Kurnool | 0.54 |
| 11 | Andhra Pradesh | Mahaboobnagar | 1.33 |
| 12 | Andhra Pradesh | Medak | 5.43 |
| 13 | Andhra Pradesh | Nalgonda | -1.45 |
| 14 | Andhra Pradesh | Nellore | -0.57 |
| 15 | Andhra Pradesh | Nizamabad | 1.81 |
| 16 | Andhra Pradesh | Prakasam | -0.74 |
| 17 | Andhra Pradesh | Ranga Reddy | 3.06 |
| 18 | Andhra Pradesh | Srikakulam | -2.01 |
| 19 | Andhra Pradesh | Visakhapatnam | -2.34 |
| 20 | Andhra Pradesh | Vizianagaram | -0.31 |
| 21 | Andhra Pradesh | Warangal | 4.93 |
| 22 | Andhra Pradesh | W-West Godavari | 2.08 |
| 23 | Assam | Barpeta | -0.24 |
| 24 | Assam | Bongaigaon | 0.45 |
| 25 | Assam | Cachar | 0.52 |
| 26 | Assam | Darrang | -2.15 |
| 27 | Assam | Dhemaji | 0.41 |
| 28 | Assam | Dhubri | 3.53 |
| 29 | Assam | Dibrugarh | -2.19 |
| 30 | Assam | Goalpara | 0.12 |
| 31 | Assam | Golaghat | 3.01 |
| 32 | Assam | Hailakandi | -0.42 |
| 33 | Assam | Jorhat | 2.87 |
| 34 | Assam | Kamrup | 1.19 |
| 35 | Assam | Karbi Anglong | 0.73 |
| 36 | Assam | Karimganj | 3.11 |
| 37 | Assam | Kokrajhar | 2.51 |
| 38 | Assam | Lakhimpur | -1.21 |
| 39 | Assam | Marigaon | 2.22 |
| 40 | Assam | N Kachar Hills | 0.95 |
| 41 | Assam | Nagaon | 1.81 |
| 42 | Assam | Nalbari | 0.51 |
| 43 | Assam | Sivasagar | -1.19 |
| 44 | Assam | Sonitpur | 4.75 |
| 45 | Assam | Tinsukia | 8.01 |
| 46 | Bihar | Araria | 3.98 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|--------------|-----------------|-------------------------------------|
| 47 | Bihar | Aurangabad | 3.46 |
| 48 | Bihar | Begusarai | 0.22 |
| 49 | Bihar | Bhagalpur | 1.66 |
| 50 | Bihar | Bhojpur | -2.95 |
| 51 | Bihar | Champanan(east) | -0.84 |
| 52 | Bihar | Champanan(west) | 1.38 |
| 53 | Bihar | Darbhanga | -0.11 |
| 54 | Jharkhand | Deoghar | 1.99 |
| 55 | Jharkhand | Dhanbad | 8.75 |
| 56 | Jharkhand | Dumka | 4.96 |
| 57 | Jharkhand | East Singhbhum | 6.30 |
| 58 | Bihar | Gaya | 2.00 |
| 59 | Jharkhand | Giridh | 3.40 |
| 60 | Jharkhand | Godda | 7.08 |
| 61 | Bihar | Gopalganj | -2.35 |
| 62 | Jharkhand | Gumla | 2.19 |
| 63 | Jharkhand | Hazaribag | 4.44 |
| 64 | Bihar | Jahanabad | -2.18 |
| 65 | Bihar | Katihar | 3.41 |
| 66 | Bihar | Khagaria | 2.54 |
| 67 | Bihar | Kishanganj | 3.82 |
| 68 | Jharkhand | Lohargada | 2.61 |
| 69 | Bihar | Madhubani | 1.14 |
| 70 | Bihar | Madhupura | 3.33 |
| 71 | Bihar | Monghyr | -0.96 |
| 72 | Bihar | Muzafarpur | 1.14 |
| 73 | Bihar | Nalanda | -1.10 |
| 74 | Bihar | Nawadha | 1.75 |
| 75 | Jharkhand | Palamu | 5.04 |
| 76 | Bihar | Patna | 1.93 |
| 77 | Bihar | Purnea | 1.77 |
| 78 | Jharkhand | Ranchi | 2.61 |
| 79 | Bihar | Rohtas | 2.33 |
| 80 | Bihar | Saharsa | 6.83 |
| 81 | Jharkhand | Sahibganj | 2.41 |
| 82 | Bihar | Samastipur | 1.32 |
| 83 | Bihar | Saran | -0.21 |
| 84 | Bihar | Sitamarhi | 2.14 |
| 85 | Bihar | Siwan | -1.30 |
| 86 | Bihar | Vaishali | 4.59 |
| 87 | Jharkhand | West Singhbhum | 4.14 |
| 88 | Gujarat | Ahmedabad | 0.59 |
| 89 | Gujarat | Amreli | 7.18 |
| 90 | Gujarat | Banaskantha | 5.05 |
| 91 | Gujarat | Bharuch | 4.30 |
| 92 | Gujarat | Bhavnagar | 5.60 |
| 93 | Gujarat | Dang | 2.68 |
| 94 | Gujarat | Gandhinagar | 13.76 |
| 95 | Gujarat | Jamnagar | 11.14 |
| 96 | Gujarat | Junagadh | 7.33 |
| 97 | Gujarat | Kheda | -1.10 |
| 98 | Gujarat | Kutch | 1.32 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|------------------|-----------------|-------------------------------------|
| 99 | Gujarat | Mehsana | -1.53 |
| 100 | Gujarat | Panchmahal | 0.12 |
| 101 | Gujarat | Rajkot | 7.50 |
| 102 | Gujarat | Sabarkantha | 0.16 |
| 103 | Gujarat | Surat | 1.02 |
| 104 | Gujarat | Surendranagar | 1.15 |
| 105 | Gujarat | Vadodara | -0.52 |
| 106 | Gujarat | Valsad | 2.38 |
| 107 | Haryana | Ambala | 2.93 |
| 108 | Haryana | Bhiwani | 5.10 |
| 109 | Haryana | Faridabad | 2.85 |
| 110 | Haryana | Gurgaon | 3.82 |
| 111 | Haryana | Hisar | 1.49 |
| 112 | Haryana | Jind | 2.25 |
| 113 | Haryana | Kaithal | 1.43 |
| 114 | Haryana | Karnal | 2.34 |
| 115 | Haryana | Kurukshetra | 1.62 |
| 116 | Haryana | Mahendragarh | 3.54 |
| 117 | Haryana | Panipat | -0.14 |
| 118 | Haryana | Rewari | 3.29 |
| 119 | Haryana | Rohtak | 1.47 |
| 120 | Haryana | Sirsa | 2.23 |
| 121 | Haryana | Sonipat | 2.99 |
| 122 | Haryana | Yamunanagar | 1.27 |
| 123 | Himachal Pradesh | Bilaspur | 0.36 |
| 124 | Himachal Pradesh | Chamba | 0.43 |
| 125 | Himachal Pradesh | Hamirpur | -0.41 |
| 126 | Himachal Pradesh | Kangra | 0.14 |
| 127 | Himachal Pradesh | Kinnaur | -2.82 |
| 128 | Himachal Pradesh | Kullu | -0.32 |
| 129 | Himachal Pradesh | Lahul Spiti | -6.28 |
| 130 | Himachal Pradesh | Mandi | 2.13 |
| 131 | Himachal Pradesh | Shimla | -0.62 |
| 132 | Himachal Pradesh | Sirmaur | -0.21 |
| 133 | Himachal Pradesh | Solan | -0.01 |
| 134 | Himachal Pradesh | Una | 1.47 |
| 135 | Jammu & Kashmir | Anantnag | -1.70 |
| 136 | Jammu & Kashmir | Baramulla | -0.77 |
| 137 | Jammu & Kashmir | Budgam | -0.91 |
| 138 | Jammu & Kashmir | Doda | -2.24 |
| 139 | Jammu & Kashmir | Jammu | 1.49 |
| 140 | Jammu & Kashmir | Kargil | 9.82 |
| 141 | Jammu & Kashmir | Kathua | 1.57 |
| 142 | Jammu & Kashmir | Kupwara | -3.44 |
| 143 | Jammu & Kashmir | Leh | 3.52 |
| 144 | Jammu & Kashmir | Poonch | 1.98 |
| 145 | Jammu & Kashmir | Pulwama | -2.01 |
| 146 | Jammu & Kashmir | Rajouri | 0.66 |
| 147 | Jammu & Kashmir | Srinagar | 0.56 |
| 148 | Jammu & Kashmir | Udhampur | -0.51 |
| 149 | Karnataka | Bangalore Rural | -2.60 |
| 150 | Karnataka | Belgaum | -1.33 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|----------------|--------------------|-------------------------------------|
| 151 | Karnataka | Bellary | 0.78 |
| 152 | Karnataka | Bidar | 1.78 |
| 153 | Karnataka | Bijapur | 1.54 |
| 154 | Karnataka | Chickmagalur | 1.13 |
| 155 | Karnataka | Chitradurga | -1.88 |
| 156 | Karnataka | Dakshina Kannada | -2.54 |
| 157 | Karnataka | Dharwar | -2.60 |
| 158 | Karnataka | Gulbarga | 3.57 |
| 159 | Karnataka | Hassan | 0.66 |
| 159 | Karnataka | Kodagu | 2.75 |
| 160 | Karnataka | Kolar | -4.31 |
| 161 | Karnataka | Mandya | -1.30 |
| 162 | Karnataka | Mysore | 2.31 |
| 163 | Karnataka | Raichur | -0.53 |
| 164 | Karnataka | Shimoga | -2.67 |
| 165 | Karnataka | Tumkur | -1.64 |
| 166 | Karnataka | Uttara Kannada | -3.87 |
| 167 | Kerala | Alappuzha | -2.48 |
| 168 | Kerala | Ernakulam | 0.55 |
| 169 | Kerala | Idukki | 6.68 |
| 170 | Kerala | Kannur | 0.30 |
| 171 | Kerala | Kasaragod | 2.07 |
| 172 | Kerala | Kollam | 0.81 |
| 173 | Kerala | Kottayam | 3.32 |
| 174 | Kerala | Kozhikode | 2.44 |
| 175 | Kerala | Malappuram | 2.43 |
| 176 | Kerala | Palakkad | 1.83 |
| 177 | Kerala | Pathanamthitta | 1.93 |
| 178 | Kerala | Thiruvananthapuram | 0.61 |
| 179 | Kerala | Thrissur | 0.69 |
| 180 | Kerala | Wayanad | 5.30 |
| 181 | Madhya Pradesh | Balaghat | 1.17 |
| 182 | Madhya Pradesh | Betul | 1.18 |
| 183 | Madhya Pradesh | Bhind | 1.50 |
| 184 | Madhya Pradesh | Bhopal | 3.13 |
| 185 | Chattisgarh | Bilaspur | 1.21 |
| 186 | Madhya Pradesh | Chhatarpur | 2.07 |
| 187 | Madhya Pradesh | Chhindwara | -0.51 |
| 188 | Madhya Pradesh | Damoh | 2.80 |
| 189 | Madhya Pradesh | Datia | 6.14 |
| 190 | Madhya Pradesh | Dewas | 3.39 |
| 191 | Madhya Pradesh | Dhar | 2.13 |
| 192 | Chattisgarh | Durg | 1.65 |
| 193 | Madhya Pradesh | Guna | 2.50 |
| 194 | Madhya Pradesh | Gwalior | -0.83 |
| 195 | Madhya Pradesh | Hoshangabad | 4.17 |
| 196 | Madhya Pradesh | Indore | -0.33 |
| 197 | Madhya Pradesh | Jabalpur | 1.92 |
| 198 | Chattisgarh | Jagdalpur | 2.15 |
| 199 | Madhya Pradesh | Jhabua | 0.72 |
| 200 | Madhya Pradesh | Khandwa | -4.17 |
| 201 | Madhya Pradesh | Khargone | 1.75 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|----------------|-----------------|-------------------------------------|
| 202 | Madhya Pradesh | Mandla | 2.33 |
| 203 | Madhya Pradesh | Mandsaur | -0.18 |
| 204 | Madhya Pradesh | Morena | -0.52 |
| 205 | Madhya Pradesh | Narsinghpur | 2.36 |
| 206 | Madhya Pradesh | Panna | 0.85 |
| 207 | Chattisgarh | Raigarh | 2.14 |
| 208 | Chattisgarh | Raipur | -1.03 |
| 209 | Madhya Pradesh | Raisen | 1.23 |
| 210 | Madhya Pradesh | Rajgarh | 1.86 |
| 211 | Chattisgarh | Rajnandgaon | 2.01 |
| 212 | Madhya Pradesh | Ratlam | -0.14 |
| 213 | Madhya Pradesh | Rewa | 2.28 |
| 214 | Madhya Pradesh | Sagar | 2.41 |
| 215 | Chattisgarh | Sarguja | 1.79 |
| 216 | Madhya Pradesh | Satna | 2.48 |
| 217 | Madhya Pradesh | Sehore | 2.75 |
| 218 | Madhya Pradesh | Seoni | 2.35 |
| 219 | Madhya Pradesh | Shahdol | 1.02 |
| 220 | Madhya Pradesh | Shajapur | -2.39 |
| 221 | Madhya Pradesh | Shivpuri | 1.69 |
| 222 | Madhya Pradesh | Sidhi | 2.06 |
| 223 | Madhya Pradesh | Tikamgarh | 0.86 |
| 224 | Madhya Pradesh | Ujjain | -1.61 |
| 225 | Madhya Pradesh | Vidisha | 3.31 |
| 226 | Maharashtra | Ahmednagar | 1.75 |
| 227 | Maharashtra | Akola | 4.23 |
| 228 | Maharashtra | Amravati | 4.40 |
| 229 | Maharashtra | Aurangabad | 0.20 |
| 230 | Maharashtra | Beed | 0.12 |
| 231 | Maharashtra | Bhandara | 5.47 |
| 232 | Maharashtra | Buldhana | 3.82 |
| 233 | Maharashtra | Chandrapur | 3.75 |
| 234 | Maharashtra | Dhule | 1.44 |
| 235 | Maharashtra | Gadchiroli | -0.09 |
| 236 | Maharashtra | Jalgaon | 7.06 |
| 237 | Maharashtra | Jalna | 3.13 |
| 238 | Maharashtra | Kolhapur | 6.11 |
| 239 | Maharashtra | Latur | 3.14 |
| 240 | Maharashtra | Nagpur | 4.42 |
| 241 | Maharashtra | Nanded | 5.52 |
| 242 | Maharashtra | Nasik | 1.67 |
| 243 | Maharashtra | Osmanabad | -1.60 |
| 244 | Maharashtra | Parbhani | 6.42 |
| 245 | Maharashtra | Pune | 3.28 |
| 246 | Maharashtra | Raigad | 8.69 |
| 247 | Maharashtra | Ratnagiri | 5.94 |
| 248 | Maharashtra | Sangli | 3.26 |
| 249 | Maharashtra | Satara | 2.40 |
| 250 | Maharashtra | Sindhudurg | 12.26 |
| 251 | Maharashtra | Solapur | -0.48 |
| 252 | Maharashtra | Thane | 5.30 |
| 253 | Maharashtra | Wardha | 4.11 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|--------------|-----------------|-------------------------------------|
| 254 | Maharashtra | Yavatmal | 3.67 |
| 255 | Orissa | Balasore | 2.34 |
| 256 | Orissa | Bolangir | -2.62 |
| 257 | Orissa | Cuttack | -5.00 |
| 258 | Orissa | Dhenkanal | 2.69 |
| 259 | Orissa | Gajapati | -7.14 |
| 260 | Orissa | Ganjam | 5.85 |
| 261 | Orissa | Kalahandi | -1.09 |
| 262 | Orissa | Keonjhar | 2.35 |
| 263 | Orissa | Koraput | -1.16 |
| 264 | Orissa | Malkangiri | -10.00 |
| 265 | Orissa | Mayurbhanj | -1.12 |
| 266 | Orissa | Nawarangpur | -5.89 |
| 267 | Orissa | Phulbani | -3.50 |
| 268 | Orissa | Puri | -1.92 |
| 269 | Orissa | Rayagada | -8.20 |
| 270 | Orissa | Sambalpur | -1.24 |
| 271 | Orissa | Sundargarh | -3.10 |
| 272 | Punjab | Amritsar | 1.14 |
| 273 | Punjab | Bhathinda | 1.46 |
| 274 | Punjab | Faridkot | 1.34 |
| 275 | Punjab | Fatehgarh Sahib | 0.89 |
| 276 | Punjab | Ferozepur | 0.97 |
| 277 | Punjab | Gurdaspur | 2.14 |
| 278 | Punjab | Hoshiarpur | 2.78 |
| 279 | Punjab | Jalandhar | 0.92 |
| 280 | Punjab | Kapurthala | 2.40 |
| 281 | Punjab | Ludhiana | 1.41 |
| 282 | Punjab | Patiala | 1.25 |
| 283 | Punjab | Ropar | 1.16 |
| 284 | Punjab | Sangrur | 0.92 |
| 285 | Rajasthan | Ajmer | 0.07 |
| 286 | Rajasthan | Alwar | 3.15 |
| 287 | Rajasthan | Banswara | 0.04 |
| 288 | Rajasthan | Baran | 9.49 |
| 289 | Rajasthan | Barmer | 2.43 |
| 290 | Rajasthan | Bharatpur | 2.87 |
| 291 | Rajasthan | Bhilwara | -2.40 |
| 292 | Rajasthan | Bikaner | 7.48 |
| 293 | Rajasthan | Bundi | 0.37 |
| 294 | Rajasthan | Chittore | 0.29 |
| 295 | Rajasthan | Churu | 0.58 |
| 296 | Rajasthan | Dausa | 5.05 |
| 297 | Rajasthan | Dholpur | 4.22 |
| 298 | Rajasthan | Dungarpur | -2.25 |
| 299 | Rajasthan | Ganganagar | -1.38 |
| 300 | Rajasthan | Jaipur | 4.30 |
| 301 | Rajasthan | Jaisalmer | 11.74 |
| 302 | Rajasthan | Jalore | 2.58 |
| 303 | Rajasthan | Jhalawar | 3.38 |
| 304 | Rajasthan | Jhunjhunu | 8.96 |
| 305 | Rajasthan | Jodhpur | 3.89 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|---------------|-----------------|-------------------------------------|
| 306 | Rajasthan | Kota | 5.48 |
| 307 | Rajasthan | Nagaur | 3.15 |
| 308 | Rajasthan | Pali | -0.91 |
| 309 | Rajasthan | Rajsamand | 1.19 |
| 310 | Rajasthan | S. Madhopur | -0.03 |
| 311 | Rajasthan | Sikar | 8.02 |
| 312 | Rajasthan | Sirohi | -0.76 |
| 313 | Rajasthan | Tonk | -1.87 |
| 314 | Rajasthan | Udaipur | -0.10 |
| 315 | Tamil Nadu | Coimbatore | -5.42 |
| 316 | Tamil Nadu | Cuddalore | 0.14 |
| 317 | Tamil Nadu | Dharmapuri | -1.40 |
| 318 | Tamil Nadu | Dindigul | -2.30 |
| 319 | Tamil Nadu | Erode | -0.46 |
| 320 | Tamil Nadu | Kanyakumari | -3.58 |
| 321 | Tamil Nadu | Madurai | -3.36 |
| 322 | Tamil Nadu | Nagapattinam | -4.46 |
| 323 | Tamil Nadu | Pudukottai | 1.04 |
| 324 | Tamil Nadu | Ramanathapuram | -0.12 |
| 325 | Tamil Nadu | Salem | 2.56 |
| 326 | Tamil Nadu | Sivagangai | -4.87 |
| 327 | Tamil Nadu | Thanjavur | 0.18 |
| 328 | Tamil Nadu | The Nilgiris | -1.30 |
| 329 | Tamil Nadu | Thiruvallur | -0.89 |
| 330 | Tamil Nadu | Thiruvannamalai | 0.54 |
| 331 | Tamil Nadu | Thoothukudi | -1.86 |
| 332 | Tamil Nadu | Tiruchirapalli | -2.80 |
| 333 | Tamil Nadu | Tirunelveli | 0.78 |
| 334 | Tamil Nadu | Vellore | -1.43 |
| 335 | Tamil Nadu | Virudhunagar | -4.77 |
| 336 | Uttar Pradesh | Agra | 5.89 |
| 337 | Uttar Pradesh | Aligarh | 2.49 |
| 338 | Uttar Pradesh | Allahabad | 1.12 |
| 339 | Uttranachal | Almora | -1.80 |
| 340 | Uttar Pradesh | Azamgarh | 2.27 |
| 341 | Uttar Pradesh | Badaun | 3.40 |
| 342 | Uttar Pradesh | Bahraich | 2.81 |
| 343 | Uttar Pradesh | Ballia | 1.55 |
| 344 | Uttar Pradesh | Banda | 1.62 |
| 345 | Uttar Pradesh | Barabanki | 3.16 |
| 346 | Uttar Pradesh | Bareilly | 1.77 |
| 347 | Uttar Pradesh | Basti | 1.98 |
| 348 | Uttar Pradesh | Bijnor | 1.28 |
| 349 | Uttar Pradesh | Bulandshahar | 1.16 |
| 350 | Uttranachal | Chamoli | -2.45 |
| 351 | Uttranachal | Dehradun | -0.83 |
| 352 | Uttar Pradesh | Deoria | 0.16 |
| 353 | Uttar Pradesh | Eath | 2.74 |
| 354 | Uttar Pradesh | Etawah | 1.61 |
| 355 | Uttar Pradesh | Faizabad | 0.96 |
| 356 | Uttar Pradesh | Farrukhabad | 2.19 |
| 357 | Uttar Pradesh | Fatehpur | 1.32 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|---------------|-----------------|-------------------------------------|
| 358 | Uttar Pradesh | Ferozabad | 6.94 |
| 359 | Uttar Pradesh | Ghaziabad | 1.46 |
| 360 | Uttar Pradesh | Ghazipur | 0.30 |
| 361 | Uttar Pradesh | Gonda | 3.23 |
| 362 | Uttar Pradesh | Gorakhpur | 1.18 |
| 363 | Uttar Pradesh | Hamirpur | 1.14 |
| 364 | Uttar Pradesh | Hardoi | 2.21 |
| 365 | Uttranachal | Haridwar | 1.21 |
| 366 | Uttar Pradesh | Jalaun | 3.13 |
| 367 | Uttar Pradesh | Jaunpur | 0.51 |
| 368 | Uttar Pradesh | Jhansi | 2.86 |
| 369 | Uttar Pradesh | Kanpur (C) | 1.12 |
| 370 | Uttar Pradesh | Kanpur (D) | 0.56 |
| 371 | Uttar Pradesh | Kheri | 3.35 |
| 372 | Uttar Pradesh | Lalitpur | 2.03 |
| 373 | Uttar Pradesh | Lucknow | 1.11 |
| 374 | Uttar Pradesh | Maharalganj | 1.98 |
| 375 | Uttar Pradesh | Mainpuri | 5.64 |
| 376 | Uttar Pradesh | Mathura | 3.06 |
| 377 | Uttar Pradesh | Mau | 0.76 |
| 378 | Uttar Pradesh | Meerut | 1.01 |
| 379 | Uttar Pradesh | Mirzapur | 2.76 |
| 380 | Uttar Pradesh | Moradabad | 0.37 |
| 381 | Uttar Pradesh | Muzaffarnagar | 0.63 |
| 382 | Uttranachal | Nainital | 0.04 |
| 383 | Uttranachal | Pauri Garhwal | -1.64 |
| 384 | Uttar Pradesh | Pilibhit | 1.69 |
| 385 | Uttranachal | Pithoragarh | -0.91 |
| 386 | Uttar Pradesh | Pratapgarh | 1.63 |
| 387 | Uttar Pradesh | Raibareli | 1.70 |
| 388 | Uttar Pradesh | Rampur | 1.63 |
| 389 | Uttar Pradesh | Saharanpur | 0.34 |
| 390 | Uttar Pradesh | Shahjahanpur | 1.89 |
| 391 | Uttar Pradesh | Siddharthanagar | 1.78 |
| 392 | Uttar Pradesh | Sitapur | 3.80 |
| 393 | Uttar Pradesh | Sonbhadra | 5.42 |
| 394 | Uttar Pradesh | Sultanpur | 2.25 |
| 395 | Uttranachal | Tehri Garhwal | -2.68 |
| 396 | Uttar Pradesh | Unnao | 2.75 |
| 397 | Uttranachal | Uttar Kashi | 0.62 |
| 398 | Uttar Pradesh | Varanasi | 0.57 |
| 399 | West Bengal | 24-Parganas(N) | 3.00 |
| 400 | West Bengal | 24-Parganas(S) | 3.07 |
| 401 | West Bengal | Bankura | 2.99 |
| 402 | West Bengal | Birbhum | 3.47 |
| 403 | West Bengal | Burdwan | 2.79 |
| 404 | West Bengal | Cooch Behar | -0.99 |
| 405 | West Bengal | Darjeeling | 3.69 |
| 406 | West Bengal | Hooghly | 2.38 |
| 407 | West Bengal | Howrah | 2.34 |
| 408 | West Bengal | Jalpaiguri | 9.11 |
| 409 | West Bengal | Malda | -1.30 |

| Sr No | State | District | Growth Rate (% per year) |
|--------------|--------------|------------------|-------------------------------------|
| 410 | West Bengal | Midnapore (East) | 2.98 |
| 411 | West Bengal | Midnapore (West) | 5.91 |
| 412 | West Bengal | Murshidabad | 7.42 |
| 413 | West Bengal | Nadia | 4.00 |
| 414 | West Bengal | Purulia | 4.76 |
| 415 | West Bengal | Uttar Dinajpur | 3.44 |

Appendix - 7

State-wise Number of Drought Affected Districts During 2002

| S. No | State | Districts Declared Drought Affected | | %age area under irrigation | %age of Districts with decline in GCA |
|-------|------------------|-------------------------------------|------------|----------------------------|---------------------------------------|
| | | Number | % of total | | |
| 1. | Andhra Pradesh | 22 | 100 | 39 | 77 |
| 2. | Chhattisgarh | 16 | 100 | 21 | 86 |
| 3. | Gujarat | 14 | 56 | 31 | 37 |
| 4. | Haryana | 19 | 100 | 86 | 13 |
| 5. | Himachal Pradesh | 12 | 100 | 18 | 67 |
| 6. | Jharkhand | 22 | 100 | 11 | 76 |
| 7. | Karnataka | 24 | 89 | 24 | 74 |
| 8. | Kerala | 11 | 79 | 14 | 76 |
| 9. | Madhya Pradesh | 33 | 69 | 26 | 21 |
| 10. | Maharashtra | 33 | 100 | 18 | 35 |
| 11. | Orissa | 30 | 100 | 28 | 76 |
| 12. | Punjab | 17 | 100 | 97 | 15 |
| 13. | Rajasthan | 32 | 100 | 40 | 50 |
| 14. | Tamil Nadu | 28 | 97 | 55 | 76 |
| 15. | Uttaranchal | 13 | 100 | 43 | 89 |
| 16. | Uttar Pradesh | 70 | 100 | 71 | 37 |
| 17. | West Bengal | 3 | 17 | 52 | 12 |

Note:1. Contrary to drought in most part of the country, floods caused severe damage in 24 of 38 districts in Bihar and 22 of 24 districts in Assam during 2002 monsoons.

2. Correlation between area under irrigation and proportion of districts showing decline in Gross cropped area during 1990-3 to 2001-4 is -0.57 and that of drought affected and % experiencing decline in GCA is 0.45.