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FAMINE AND RELIEF OPERATIONS IN INDIA

FURTHER PAPERS

REGARDING THE

FAMINE AND THE RELIEF OPERATIONS

LN

INDIA

DURING THE YEARS 1896-97.

No. V.

(IN CONTINUATION OF [C. 8660].)

Resolution on the Administration of Famine Relief in the North Western Provinces and Oudh.

Presented to both Houses of Parliament by Command of Mer Majesty.



LONDON ·

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1898

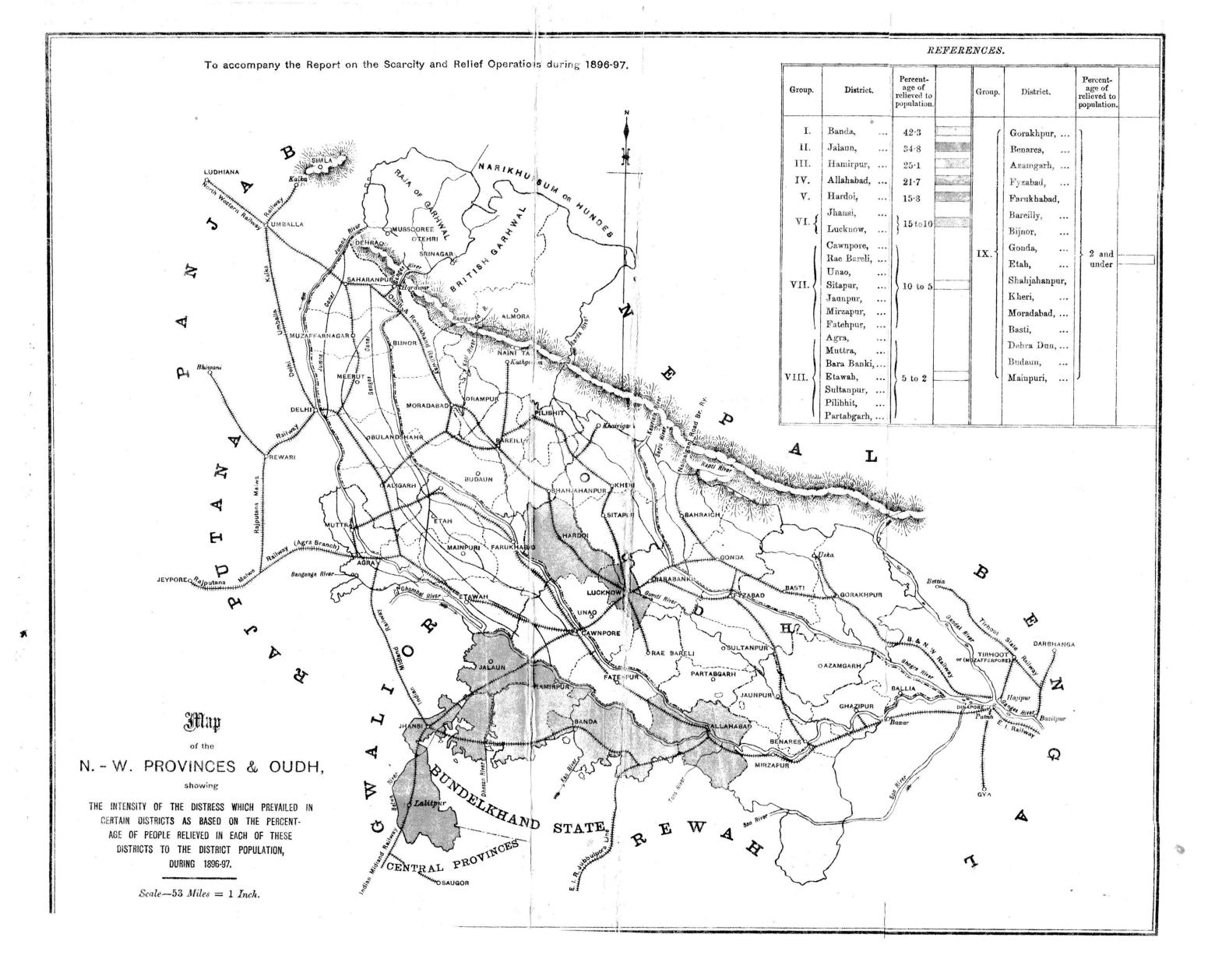
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Gobernment of the Horth-Western Provinces and Oudh.

• NARRATIVE AND RESULTS OF THE MEASURES ADOPTED FOR THE RELIEF OF FAMINE DURING THE YEARS 1896 AND 1897.

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Government of the

Dorth-Western Provinces and Oudh.

(SCARCITY DEPARTMENT.)

NARRATIVE AND RESULTS OF THE MEASURES ADOPTED FOR THE RELIEF OF FAMINE DURING THE YEARS 1896 AND 1897.

No. 2469.

Extract from the Proceedings of the Government of the North-Western Provinces and Oudh in the Scarcity Department, under date Allahabad, November 23rd, 1897.

READ again-

Resolution No. 3545S., recorded by the Lieutenant-Governor and Chief Commissioner on the 20th October 1896, reviewing the relief operations in Bundelkhand and in certain other districts of the North-Western Provinces and Oudh during the spring, summer, and autumn of 1896.

Letter No. 196/8-73, dated 23rd November 1896, reporting on the extent to which the early cessation of the rains of 1896 had injured the kharif harvest, prejudiced the prospects of the ensuing rabs, and affected the condition of the people at large.

Correspondence and Minutes of conferences between the Lieutenant-Governor and Chief Commissioner and Commissioners of Divisions, the Chief Engineer, District Officers, Superintending Engineer and others regarding the organization and conduct of relief measures from October 1896.

Read also-

Communications under various dates from Commissioners of Divisions, Collectors of Districts, and Superintending Engineers in whose jurisdictions famine or scarcity prevailed during 1897, reporting on the organization, progress, termination, and results of relief operations carried out under their supervision and control.

RESOLUTION.

INTRODUCTION.—This narrative deals with the famine which visited the North-Western Provinces and Oudh during the years 1896 and 1897. These Provinces cover an area of 107,500 square miles, and in 1891 contained a population of 46,905,085, or nearly 47 millions. It is believed that the population has since increased. At one period or other

during 1896 and 1897 every part of this great territory was to a greater or less extent affected by crop failure, entailing scarcity of food or high prices. In one-third of the area there was famine; in another third there was scarcity; and in the remainder there was the pressure which famine prices cause. Previous famines or scarcities—and there have been many—affected only limited portions of the Provinces. This is the first occasion within historic memory that the entire country has been so severely afflicted.

The local famine in Bundelkhand last year declared itself on the failure there of the rabi or spring harvest: the general famine of the present year immediately followed on the failure of last year's autumn or kharif crops. But neither famine was produced by the loss of a single harvest: the causes which culminated in these visitations must be sought much further back than the local or general crop failures of 1896.

The year 1896 was only the last and worst of a series of years marked by adverse conditions of climate, and by the deficient harvests which such conditions produce. To explain the events which, beginning in 1896, reached a climax in 1897, it is necessary to review, as briefly as may be, the character of the preceding years and to narrate the repeated disasters which befell those extensive regions in which famine or scarcity subsequently developed.

CHAPTER I.

Economic condition of the North-Western Provinces and Oudh from 1892 to 1896.

SINCE the last scarcity of 1877-78 the welfare of the United Provinces had up to 1892 met with no serious check. There had been, it is true, deterioration, within limited areas depression and even local distress. But these troubles were no more than the fluctuations of agricultural prosperity that might be expected in any large tract of country; and the period of fifteen years that followed the famine of 1877-78 was a period of progressive welfare throughout the United Provinces generally.

In 1892 the country was at a stage of full normal prosperity. Prices were moderate and bad harvests in Europe gave an extraordinary stimulus to the Indian export trade. From April 1891 to June 1892 the rush of wheat to the seaports had been in excess of anything formerly known; and it is calculated that during 1892 the Provinces exported surplus grain to the value of nearly four crores of rupees. An alarm was raised that the money thus brought into the country was the price of a dangerous exhaustion of the local food supply; but this was disproved by a special inquiry which Government instituted into the state of the existing stocks, and the alarm was further dissipated by the trade reaction in the following year.

The harvests that bore the brunt of all this export were distinctly good. The spring crops gave an outturn which was for the most part normal and nowhere, except in the Azamgarh district and in the Kumaun division, under 75 per cent. of a full average. Favoured by a timely and well-distributed monsoon rainfall, the autumn crops were sown over an exceptionally large area, and their produce was as good as that of the foregoing spring harvest, except in parts of Bundelkhand and in the rice lands of the Benares and Gorakhpur divisions. These latter tracts suffered from droughts and floods, and the consequent failure in the rice crop, on which. these divisions largely depend, had to be met by considerable imports of that · grain from Bengal.

The winter of 1892-93 was an unusually wet one, and was followed by years of excessive rainfall, which have had no small part in leading up to the recent distress. The spring harvest of 1893, though giving fully an 80 per cent. outturn for the Provinces as a whole, was by no means of uniform excellence. Magnificent crops were produced on unirrigated . 5 and light soils; but the wet and cloudy weather that prevailed up to harvest time induced rust and blight in lowlying lands

1893.

and on the heavy black soil of Bundelkhand. The ripening crops, too, in many places were devastated by storms of hail that swept over the country in March, and necessitated revenue remissions in 12 districts, amounting to close on $2\frac{1}{2}$ lakhs of rupees. The southern and western districts of the Provinces showed excellent harvests; but Azamgarh and three-fourths of Bundelkhand suffered severely from the combined effects of hail and excessive moisture.

The monsoon rains began early and continued abnormally heavy. The autumn harvest was generally impaired by the constant wet, which culminated in a cyclonic storm in October. Except for rice, which turned out unusually well, the yield on the whole was not quite 70 per cent. of the average. It was best in the Meerut, Rohilkhand and Agra divisions, and worst in Oudh and in the Bánda, Allahabad, Gházipur, Ballia and Azamgarh districts of the North-Western Provinces.

This deficiency in the harvests produced its natural effect on the activity of the export trade, which indeed had begun to wane by the end of 1892. There was some surplus of export from Meerut and Rohilkhand; but the pinch of light harvests began to tell in the Allahabad and Benares divisions, which had to import respectively about 4,600 and 3,250 tons of food grain for their own consumption.

1894,

The year 1894 opened with much promise. The copious rains of the preceding autumn had led to spring sowings which covered over a million acres more than in 1893. But the winter rains, besides being irregular in distribution, were interspersed with long intervals of cloudy weather, and were followed before harvest time by untimely high winds. Blight and rust accordingly followed; but still the crops looked good, and it was not till they came to the threshing floor that a distinct lightness of the grain in the ear became apparent. The yield of wheat was the poorest for ten years past, nowhere except in the Doáb exceeding two-thirds of a normal outturn. The coarser cereals did better, and sugarcane was very successful; but the harvest on the whole was again not above 70 per cent. of an average outturn, and it was particularly disappointing in the eastern divisions. In Bundelkhand the wheat and linseed crops were most seriously damaged by rust, and in the Jhansi and Jalaun districts further havoc was wrought by hailstorms.

To an indifferent spring outturn succeeded a still . more unfortunate autumn harvest. Exceptionally heavy rains again characterised the season; and over large areas the autumn sowings were washed out of the ground. In October and early November came fresh storms of rain, followed by disastrous floods along the courses of all the larger rivers by which many houses were wrecked and much property destroyed, necessitating large remissions of revenue. In the tracts visited by inundations the millets and autumn

pulses were almost entirely destroyed and the rice crop was seriously damaged except on high ground, where it is scantily sown. This only mitigated the loss. For the provinces as a whole the estimated outturn was barely above half of a normal average. In the districts of the Lucknow and Benares divisions and in Bánda, Basti and Azamgarh it was considerably less. The inclemency of the season started severe epidemics of cattle disease, which decimated the agricultural stock. Nor was the autumn more favourable for men than for cattle: malaria and cholera raged nearly all over the Provinces, and in the district of Gorakhpur alone the latter disease claimed close on 20,000 victims.

To what extent of distress the short harvests of the year and the weakening of the agricultural resources would have led if help from external markets had not been available, it is difficult to say. But the money that had poured into the country during the preceding export seasons now saved the position from being critical, and the Provinces were able to spend about 13 crores of rupees in supplementing their food stocks from outside. Both 1893 and 1894 had been years of plenty in the Panjab, and from its teeming granaries came an influx of grain' that penetrated into the most distant parts of these Provinces. Between April 1894 and March 1895 the Panjáb imports by rail alone were well over half a million of tons, exclusive of large supplies that must have crossed the border by road. And now it was that the unequal fortunes of the different parts of the Provinces first began to come out in high relief During the busy season of 1894-95 the Gangetic Doáb was not only able to act as a clearing house for the drafts on the Panjáb, but to send out a substantial surplus of its own, the net exports from Meerut and Agra being about 111,000 and 60,000 tons respectively. Rohilkhand held its own and somewhat more, paying for the grain it imported by large consignments of home-grown sugar. But in all the other divisions the imports far exceeded the exports.

Such then was the position in the beginning of 1895. The harvests generally had been deficient, markedly so in the eastern districts, in Bundelkhand, and in the valley tracts along the main rivers. Disease had been rife and prices were rising briskly, stemmed only by the influx of grain from the Panjáb. Of the nine divisions in the Provinces only four were supporting themselves, and only two of these were helping their neighbours: the other five, with a population of 30½ millions, had become partly dependent on food supplies from outside.

Thus when 1895 began the prospects for the future were only moderately bright. The winter had once more been a wet and cloudy one, and the harvest month of March was visited by more than usually damaging hail and duststorms. The extraordinary excess of the autumn rainfall of 1894

1895.

is graphically shewn in the accompanying diagrams. In many places it had been impossible in the driving rain to plough the fields in time for the spring harvest; the sowings had been late; and in extensive tracts they had failed and had had to be repeated. The area actually sown, however, was up to the normal: and in the early spring the crops looked full and promising. But as they were ripening, clouds brought rust and blight, or high winds shrivelled the grain and reduced the produce. In Meerut and Agra alone was the outturn satisfactory; in these divisions the people (who had saved very largely in canal dues as irrigation was superfluous) reaped a harvest which was over 80 per cent. of the normal. In Rohilkhand the result was fairly good, except in the Shahjahanpur district, where it fell short of half the average: elsewhere it was much below average, especially in Oudh and in Bundelkhand, where the important linseed crop was barely 25 per cent of the average: while the wheat was little better. In all the five eastern and southern divisions the crops gave little more than half an average yield.

During the summer of 1895 there could thus be little doubt that in many parts of the country the poorer classes were not far removed from distress. In the Rae Bareli, Sitapur and Hardoi districts of Oudh test relief works were opened, and in the two latter districts large remissions and suspensions of revenue were made. Nearly two lakhs of revenue were remitted on account of crop failures in Bundelkhand; while Jalaun and Hamírpur received considerable reductions in their deteriorated tracts. Partly through these concessions and partly by virtue of continued grain imports from the Panjáb and the Gangetic Doáb, acute distress was staved off. A plentiful mango season, too, eked out the food stock of the poorer classes, and prices remained wonderfully steady, though with a natural tendency to rise.

The monsoon rains of 1895, anxiously awaited, began in due time with heavy and sudden falls, but afterwards lightened off considerably. A fairly normal area was shown as cultivated, and up to the beginning of September there was every hope of a good harvest. But, save for some scattered showers, the rains virtually ceased on the 5th of September and the drought thereafter reduced the harvest by about 20 per cent. short of the average. In the greater part of the Provinces the harvest was not bad enough to be the cause of anxiety had it followed a series of normal seasons and found the people prepared for hard times. But the cumulative results of indifferent harvests and climatic troubles were beginning to tell severely in Bundelkhand and in most of the eastern districts. In Bundelkhand, where nature is rarely propitious, the kins weed, stimulated in its growth by the previous heavy rainfall, was spreading and weakening the failing resources of the cultivator: in the autumn of 1895 the area under the plough had contracted by

nearly one-seventh, and the staples of the tract-the great millet, cotton and sesame—were largely ousted by poorer and coarser crops. In the eastern divisions, where the population is densest and the struggle for life most acute, the ravages of the floods of 1894 had been followed by the loss over large areas of the 1895 rice crop, the mainstay of the local agriculture. In Oudh and in the two eastern districts of Rohilkhand the depletion of food stocks was assuming a scarcely less serious phase. The year, too, was again an unhealthy one, the great heat that followed the premature close of the rains sowing the seeds of cholera and malaria. Among cattle the mortality from rinderpest was excessive, and an epidemic of foot-and-mouth disease followed the use of fodder injured by the untimely drought.

To add to their misfortunes the Provinces were now deprived of the help hitherto freely given by the Panjáb. The exuberant harvests of that Province had ceased in 1895, and its exports markedly declined in the latter half of the year. From April 1895 to March 1896 the rail-borne traffic in grain from the Panjáb was only 222,000 tons as against 500,000 in the preceding 12 months. The canal-irrigated divisions of Meerut and Agra as usual continued to show a balance of export in their favour; but the admitted surplus of the other seven divisions dwindled to insignificant figures, while their net food imports aggregated over 337,000 tons, and they would no doubt have taken more had the outside market been easier.

As a natural consequence of the tightening of stocks 1896. prices at last began to rise, and with no uncertain movement. By the beginning of 1896 the staple food grains were in the majority of districts 25 per cent. dearer than the normal, and prices rose sharply up to the end of February. The spring crop was then within sight of harvest, but its prospects were far from promising. The drought of the preceding autumn had reduced the area practicable for sowing. In many districts the dry baked ground defied the plough; and where irrigation was impossible the cultivator hesitated to risk his seed. For seed was scarce and very dear; and the chances of its germination in unirrigated soil grew fainter as the year wore on and rain held off. The area actually sown was fully an eighth below the normal. In Bundelkhand alone it shrunk by over a quarter of a million acres; and the total defect for the Provinces was over two million acres.

With the exception of some showers in the beginning of December, there had been no rain between the early close of the monsoon on 5th September 1895 and the end of January 1896; but these showers had been of no material value in Bundelkhand, nor were they anywhere sufficient for the growing crops after such a prolonged drought. In the end

of January there was some irregular and badly distributed rain, ample enough to be valuable only in the Muttra district and in the Meerut and Rohilkhand divisions: elsewhere the fall was trifling, and it altogether passed by the Benares division and Bundelkhand, where it was most sadly needed. Hot winds, too, began to blow before the end of February, prematurely ripening the crops. Irrigation had gone far to relieve the strain in tracts where water was available . The canals were efficiently protecting the irrigable area in Meerut and Agra, and small temporary wells were being dug in exceptional numbers throughout Rohilkhand and the submontane tracts where the water-level is high. But for the Provinces as a whole little more than a third of the cropped area had access to an effective supply of irrigation, and in Bundelkhand, where the season was driest, the irrigable area was insignificant.

The harvest began early. The irrigated crops were up to the average or very little below it. Sugarcane, gram, peas and the arkar pulse gave a satisfactory yield; wheat did well wherever it had got water; and the harvest of food grains as a whole was probably not under 65 per cent. of a normal harvest. But this left a very large deficiency. Had the defect been equally spread over all the tracts in the Provinces, the storm might have been weathered: the third part of a harvest had been lost before, without reducing the general population to dangerous straits. But the disparity of fortune between the different parts of the country, originating in the troubles of the preceding years, had become now more accentuated than ever. To them that had, to the prosperous and protected districts of the Upper Doáb, was given: from them that had not, from the waterless expanses in Bundelkhand, from the submontane tracts, and from the far east, was taken much of what they might have had. In the Allahabad division the harvest was 55 per cent. of the normal, and individual districts ran through the gamut of affliction down to 47 per cent. in Jalaun and 38 per cent. in Bánda. As the poverty of the threshing floors became apparent prices rapidly stiffened, and by the end of April they were approaching rates which had hitherto been unknown except in years of famine. Imports from the Panjab virtually ceased; the cultivators, fearful of even harder times than the present, shut up their grain and refused to sell; and a slow and painful dribble from the Doab to the eastern districts and Bundelkhand was now the only appreciable movement in trade. The period of famine had begun.

CHAPTER II.

The Bundelkhand Famine of 1896.

In the preceding chapter it has been shown that the unfavourable conditions which assumed the unmistakeable shape of famine in 1896 had their origin as far back as 1893. The region which had suffered most persistently was the region where distress was first to develop, namely the four districts—Bánda Hamírpur, Jalaun and Jhánsi—known as British Bundelkhand. The southern part of the Allahabad district lying beyond the Jumna adjoins this tract and resembles it in physical conformation; it shared its misfortune. Bundelkhand, it has been shown, had suffered from agricultural depression for the previous three years. With the exception of the comparatively small area commanded by the Betwa Canal it is unprotected by irrigation. In point both of the fertility of its soil and of the industry and agricultural skill of its population it compares unfavourably with the rest of the Provinces. Since the autumn of 1893 the outturn of the autumn crops there had been uniformly poor, while that of the principal spring crop (wheat mixed with either gram or barley) had been worse. The abnormal succession of bad seasons had also encouraged the growth in the culturable area of the coarse grass known as kans The result of this prolonged period of adversity, was a decrease in 1895 of 192,672 acres, or 13 5 per cent. in the normal autumn crop area, and this was followed by a still more serious decrease in 1896 of 292,362 acres, or 19 per cent, in the normal spring crop area. The monsoon of 1895 ceased early in September, and the winter rains entirely failed. The stock of grain in the villages, reduced by double sowings, became low; prices began to rise before the end of the year, and the impoverished landowning classes were unable to assist their tenants. By the beginning of 1896, when the Lieutenant-Governor visited Bundelkhand, it was manifest that the region was on the brink of famine.

The affected area was fortunately well served by rail-ways (the result of a wise employment of the Famine Insurance Fund), and it was from the first apparent that private trade would be capable of supplying all the food required, and that no heavier burden would fall on Government than attaches to the provision of relief works and of those other measures of charitable or gratuitous assistance which are described in the Famine Code. In the first week in February, when the failure in the spring harvest had been placed beyond doubt, and when the first signs of commencing want had become apparent, test works were started in the

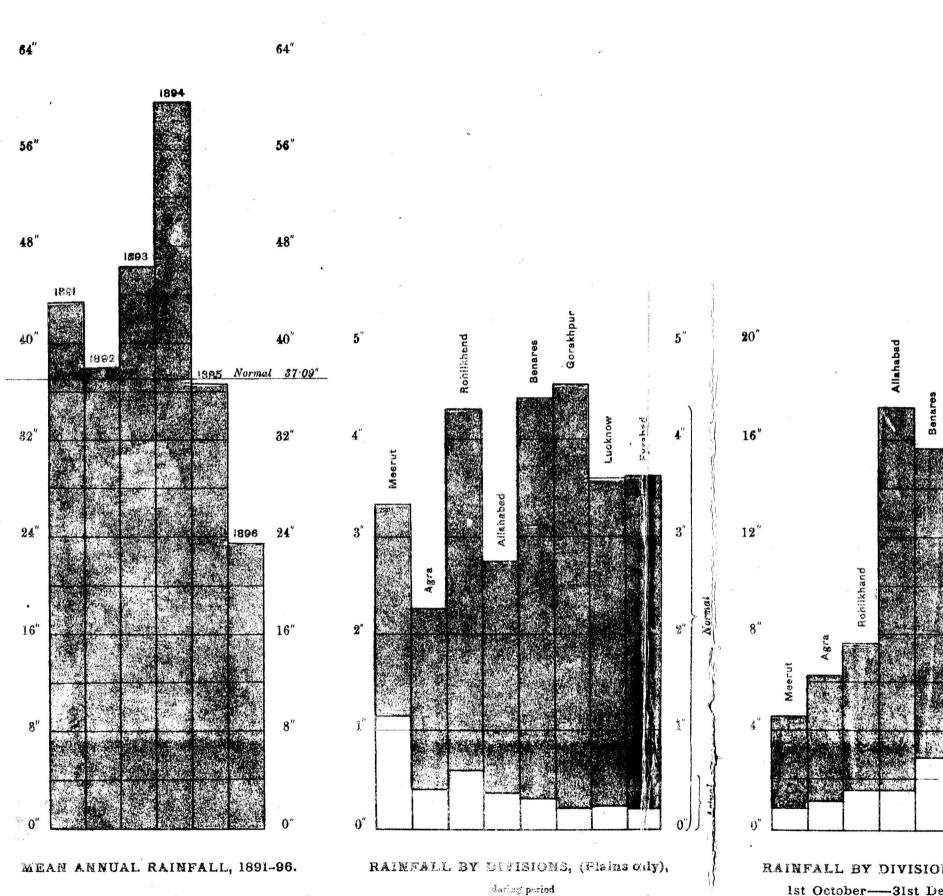
form of improvements and repairs to roads in all the districts of Bundelkhand and in South Allahabad. At the same time preparatory steps were taken to deal with more severe distress when it should show itself. The executive staff of the various districts was strengthened; relief circles were formed, and officers to take charge of them were nominated; sites were selected for poorhouses; the programme of relief works was revised and expanded; a staff of hospital assistants was deputed to supervise sanitary arrangements on relief works and administer medical comforts in temporary hospitals: provision was made for the relief at their homes of indigent persons enfeebled by age or disease or debarred by national custom from appearing in public; and the opening of the Government forest to pasturage and collection by the people of edible produce was arranged. The administrative framework necessary for the management of large relief operations was thus held in readiness at the beginning of the emergency, and all that was afterwards necessary was to fill it in as necessity required.

The number of applicants for employment on the test works opened soon became so considerable that, on the 28th February, these works were converted into regular relief works under the Famine Code. With a view to an useful subdivision of work and responsibility it was ordered that large operations, such as roads, should be managed by the Public Works Department, and that minor works, such as village tanks or reservoirs, and all poorhouse and village relief should be carried out by local agency controlled by the District Officers.

In Bundelkhand the population, which contains a considerable admixture of aborigines, depends a good deal for sustenance during the summer on the mahua (Bassia latifolia) crop and other edible forest products. But by April it became manifest that the mahua crop had failed, while the prices of the staple food grains rose steadily and the numbers on relief works increased. It had been estimated by the local officers in March that at the period of greatest pressure the numbers in receipt of relief would not exceed 140,000; but by the middle of April that number was exceeded and the numbers continued to rise, till in the third week of May they reached their maximum pitch of 263,961. The unprecedentedly low rate of wages paid, combined with the not unsubstantial outturn of work done, proves that the people were in real need of help.

In addition to the relief afforded by public works, by the establishment of poorhouses, and by the distribution of assistance to respectable but indigent people, much help was also given by granting advances of money, under the Agriculturists' Loans Act, and by suspensions and remissions of revenue. The actual sum distributed by way of recoverable

DIAGRAMS SHOWING THE RAINFALL



1st October, 1895 -- 30th April, 1866.

RAINFALL BY DIVISIONS, (Plains only). lst October-31st December, 1894.

RAINFALL IN SOME DISTRICTS October and November, 1894.

Litho. T. C. Press, Roorkes -No. 4394

advances without interest was Rs. 1,85,118; and the actual amount of revenue suspended by the Commissioner was Rs. 2,16,000 on account of the autumn instalment of 1895 and Rs. 8,78,000 on account of the spring instalment of 1896. In this way substantial assistance was afforded to the landowning and cultivating classes, as the suspension or remission of revenue carries with it, under the North-Western Provinces Rent Act, the suspension or remission of double the amount in rent.

At the beginning of June the Government laid down the policy to be adopted after the breaking of the rains with the object of inducing the people to return to their ordinary avocations as soon as possible. Village works being carried out by Civil Officers were to be contracted to a minimum on the opening of the monsoon, and no further grants for such works were to be made, it being left to the Commissioner's discretion to continue the distribution of gratuitous relief in villages and at poorhouses when absolutely necessary. With regard to road works, orders were issued that all operations under the control of the Public Works Department should be reduced to a skeleton at the break of the rains in the districts of Jhansi and Jalaun, where the distress was judged to be less acute; and that in Banda and Hamirpur the extent of the works should be greatly contracted. The works remaining were to consist in stone-breaking and quarrying, which were considered suitable for the rainy season as they could be done under cover. Task work was to be strictly exacted, and only persons capable of earning a living on task work were to remain on the public works, debilitated persons being provided for in poorhouses. It was also laid down that, with a view to inducing people to revert to agricultural work, no wages should be paid to any person on relief work in excess of the minimum subsistence wage (or its money equivalent) prescribed by Article 108, Famine Code.

The combined effect of these measures, reinforced by the certainty of ordinary agricultural employment when the rains would set in, and also to some extent no doubt by the fear of cholera, was seen in a great decrease of relief workers. The numbers, which in the third week of May had exceeded 260,000, fell by the third week of June, when the rains' had broken, to 52,619. By the middle of July all relief works under control of the Public Works Department had been closed except in Bánda, where a few quarry works were still open; and all village works had been closed except in Jhánsi, where some were still unfinished. The relief administered after that time consisted almost entirely of that given at poorhouses and of the gratuitous relief administered through the agency of village officials to respectable persons debarred by national custom from appearing in public. At the end of August the total number in receipt of any

form of relief in Bundelkhand had fallen to 5,904, and without doubt this number would have melted away, too, had not the threatenings of the far greater difficulties to come completely altered the situation.

In March prices throughout Bundelkhand, as elsewhere, were substantially above normal rates. The difference between wheat and the coarses grains was, however, well marked. During the summer wheat for a short period slightly relaxed in price, but the other staples rose steadily in value. By the end of August wheat had risen to the rate prevailing in March, and there was a significant approximation to it in the price of the coarse grains.

The following statement compares the average prices current in Bundelkhand for the food grains principally used during March, May and August 1896, with the normal prices during these months:—

Seers per Rupee.

		Wh	ent.	Gre	m _	Arbar	pulse.	Juár			
Morte.	Morte.		1896	Normal.	1896.	Normal	1896.	Normal.	1896.		
March		18466	11 36	25 81	19-23	26 19	15 20	24 08	15 69		
May	۵.	1748	11 94	22:75	15 37	23 43	13 30	22 31	14 55		
Angust	***	16 19	11.04	21 62	18 69	24 50	12.25	20 87	13 68		

High as prices were, there can be no doubt that they would have been much higher but for the active importation of food grain which went on during the whole period of distress. The imports and exports of food grains at the railway stations situated in the Bundelkhand districts were carefully recorded. From January to July the total net imports amounted to about 27,500 tons. Besides this rail-borne traffic there was a considerable import by road from Cawnpore and other neighbouring centres across the Jumna. In this and the greater trouble which awaited it, Bundelkhand owes its safety to the facilities for transport of food supplies afforded by the Indian Midland Railway.

In the earlier months of the famine the death-rate rose little above normal. The health of relief workers remained on the whole very good all through. They were often, when first coming on the works, in an emaciated and reduced condition. But later on, when the distressed tracts were visited by the Inspector-General of Civil Hospitals and the Sanitary Commissioner, these officers found no appearance of starvation among the people on the works. Had there been, the relief operations would have failed of success.

Later in the spring influenza and small-pox swelled the mortality, and in the summer months cholera appeared in a very virulent form and claimed many victims. Towards autumn fever of a peculiarly virulent type was prevalent, especially in the Hamírpur and Jhánsi districts, and added much to the mortality. It apparently had not its origin in famine, for it was observed to visit the rich and poor alike, and was not of the remittent type. Through the whole of this period few deaths, if indeed any, could be traced to actual starvation; but the following mortuary statistics, extracted from the Sanitary Commissioner's Report for 1896, may be taken as evidence that the pressure of hard times claimed many lives, mostly among the old and the very young.

Statement showing Death-rate per thousand, month by month, in Bundelkhand during the Famine of 1896, with Average Death-rate for ten previous years.

	January.		February		March.		Aprıl,		May.		June.		July.		August,		September.	
District.	1896,	Average, 1886-95.	1896.	Average, 1886—95.	1896.	Average, 1886—95.	1896.	Average, 1886-95.	1896.	Average, 1886—95	1896.	Average, 1886-95.	1896,	Average, 1886—95.	1896.	Average, 1886—95.	1896.	Average, 1886-25.
Hamirpur	9.64	0.79	2.75	9.40	7 00	9 90	2.09	9.00	4.85	9 84	9 01	2.52	9 01	4.44	£ 99	4 90	8 70	4-81
remurber	409	- 12	"	- 30	1 80	220	200	200	200	209	3 81	5 05	0 01	2 77	333	3 00	0,18	401
Bánda	2·19	2.52	1 85	2.24	1 89	2 09	1.94	1 81	7 09	2 24	4 12	8 84	2 53	2 88	3 23	2 47	3.84	2.86
Jalaun	8.12	2.70	8-25	2 39	8 40	2 24	2:90	2 22	3 72	2.81	3 69	3.87	3·1 0	8 44	3 83	3 •60	3 05	3.98
Jhánsi	3 50	2.54	8 48	2 27	3 48	2 52	l 5·42	2.49	5 ·02	2.75	7 77	8:27	5 58	3 81	7.58	8-67	7 09	3 72
Arturniy 141	"	A 04	1 30	221	3 40	202	0 42	2 43	1002	1	l' ''	10,21	000	""	1.00	0.01	1 09	072

The same causes which affected Bundelkhand necessitated also some measures of relief in the Allahabad district. the Hardoi district of Oudh, the Pılibhít district of Rohilkhand, and the Garhwal and Almora districts of Kumaun. In the part of the Allahabad district bordering on Bundelkhand, and resembling it in climate, soil and population, the distress was for a time severe, and in Hardoi also there were signs of the serious trouble which followed, but fortunately in none of the other districts did the reality come up to the local officers' early apprehensions. The relief measures adopted in these districts do not call for any lengthened description. They were carried out by the District Officers without assistance from the Department of Public Works, and comprised repairs to unmetalled district roads, poorhouses and some gratuitous relief under Chapter X of the Famine Code. In all the districts except Hardoi the pressure practically ceased when the rains had regularly set in; but in Hardoi, during the latter portion of July, when there was a prolonged break in the rains, distress threatened to assume serious proportions.

During the operations in Bundelkhand described in the preceding paragraph, the expenditure incurred in relief

works controlled by the Public Works Department amounted to Rs. 7.15,088, classified as follows:—

| Rs. | 5,87,608 | 23,758 | 243,758 | 25,87,608 | 243,758 | 25,87,608 | 243,758 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,608 | 25,87,60

The work done consisted of 345½ miles of road constructed or repaired, with wayside tanks re-excavated, and 47 large reservoirs constructed. The wages fell at the rate of Rs. 9 62 per 1,000 cubic feet.

The number of people relieved, expressed in units for one day, was 12,843,200, and the average daily cost per head, all charges above included, was 10% pies

In addition to the relief afforded by the Public Works Department, the District Officers expended Rs. 3,60,061 on village works, gratuitous village relief, and maintaining poorhouses. The work done is returned as follows:—

132½ miles of road remodelled.
559 village tanks
225 village wells
39 reservoir embankments constructed.

The cost of work per 1,000 cubic feet done is shown as Rs. 4-8; the explanation of the low rate of cost lying in the fact that the village proprietors, who benefited by the work, controlled the expenditure of the money and made it go as far as possible. But this had its disadvantages from a relief point of view, as probably none but able-bodied workmen were employed.

The total number of persons relieved by the expenditure for one day amounted to 5,533,391, and the cost of relief for each averaged one anna per head.

In the rest of the other districts of the North-Western Provinces and Oudh where relief operations were undertaken the number of persons relieved (in units for one day) reached to nearly one million, while the cost amounted to Rs. 1,05,004. The average cost per head was here higher than in Bundelkhand, reaching 1% annas per day. The explanation lies in the heavier incidence of the cost of establishment computed with reference to the smaller numbers in relief.

Throughout the Provinces, therefore, the total number of persons relieved was about 19½ millions and the total expenditure was Rs. 11,80,153. The cost of relief was 11.6 pies, or something less than one penny sterling per head daily.

CHAPTER III.

Proximate cause and premonitory symptoms of the general Famine of 1897.

The proximate cause of the famine of 1897 was the premature cessation of the monsoon rains of 1896. These rains began favourably. The normal date in these Provinces for their commencement is the 25th June. Some preliminary showers fell during the early part of that month; but taking one district with another, the true monsoon rains of 1896 opened on the 21st of the month.

In parts of the Gorakhpur, Agra, Bareilly, and Lucknow divisions and in the Banda district the rainfall at the commencement was insufficient, but elsewhere there was enough. Bundelkhand in particular had good rain everywhere except in Banda. At the end of June, therefore, prospects were on the whole favourable. Moderate but still sufficient rain was received early in July, but in the second week a break set in, which threatened the crops then full of promise. The danger was averted by a timely fall in the latter part of the month, and prospects became bright again except in some tracts of Oudh and Gorakhpur, where serious damage was reported. At the end of July the rainfall was in general much below normal except in the Meerut division. The average defect was about 40 per cent. of the normal quantity.

August began well. At first the rain, though sufficient, was irregularly distributed; but by the middle of the month it had become general, and the defect was limited to parts of the Benares and Gorakhpur divisions. In the third week, the situation was full of promise. The large area of autumn crops had made excellent progress. The quickgrowing staples, such as maize and the early millets, were already ripening, and their first fruits had brought visible relief in the shape of a timely addition to the food supply. Field work was in full swing, and the demand for labour had rendered it possible to close relief works in all districts except Hardoi. The poorhouse population had substantially diminished, several poorhouses had been closed, and outdoor relief had been curtailed as private charity again became operative. Fodder became plentiful, and the Government forests. which had been thrown open for free grazing, were again closed, though permission to make use of the edible products was continued for the time. The people of the affected tracts were regaining confidence and, equally with the Government and its officers, looked forward to an early termination of all their troubles.

At this period the prospects of the autumn crops were very favourable. The average area cropped at this season for the entire Provinces is rather over 21 millions of acres. Almost 8 per cent. of this is ordinarily irrigated and 92 per cent. unirrigated. In 1896 almost the full normal area was sown and over 15 per cent. of it was irrigated. The area under food crops in this season is ordinarily 82 per cent. of the whole. In 1896 it was 81 per cent. The area of autumn crops was deficient in some districts of the Benares division and in the Lucknow and Gorakhpur divisions owing to the diminished cultivation of rice. In the districts of Jalaun and Fatchpur there was also deficiency; but owing to the favourable character of the early rains of 1896 a larger area than usual was sown chiefly with maize and large millet in the Meerut division, in Bundelkhand, and to a smaller extent in parts of the Agra and Rohilkhand divisions.

Thus the prospects at the end of August were generally favourable. But from the third week of August the rainfall became lighter, and it had practically ceased entirely by the fourth week. At its close the totals for the month were in serious defect in the Agra and Allahabad divisions, which had received only about 60 and 40 per cent. of the normal allowance. Rohilkhand and Fyzabad divisions recorded moderate excess, and elsewhere the fall was normal or in slight defect.

With favourable rain in September a good outturn might have been expected. But instead of fostering weather in September there came the hot winds and the blazing sun of May. Barometric conditions were established which brought the west winds down the Gangetic plain. Over the whole Provinces early in September the skies cleared, and under the hot sun and the dry west wind the scanty moisture rapidly disappeared from the soil. Hope revived when clouds appeared and some showers fell in the eastern districts about the 18th. But the current proved too weak, and in a few days the skies had become clear again and the hot west wind blew as before. Except for a few moderate showers in Mirzapur and Ballia, September was, for all practical purposes, a rainless month.

The drought which characterized September continued into October. Throughout the month the temperature remained abnormally high, the air unusually dry, and the winds much stronger and more westerly than they ought to be. The rainfall of the month was an absolute failure. A few districts recorded a sprinkling, little more effectual than a heavy dew. In the rest the record was a blank. The diagrams in Chapter I bring out clearly the abnormal characteristics which distinguished the monsoon of 1896—particularly the abrupt termination of the rains at the end of August.

The following statement exhibits the percentage of defect of rainfall in each division:—

	,	Divisions.	The period from 1st May to 31st October.							
	-				Actual Ctotal.	Normal total.	Percentage of defect.			
Meerut (excl	serve of I	Dehra Dún)	444		21-98	25.85	-20			
Agra	***	***	•••		18.21	28 46	54			
Bobilkhand	***	***			28 59	87 91.	25			
Allahabad (A	***	***	***		19 24	88 78	-43			
Benares	•••	***	***		24 59	87·2 9	34			
Gorakhpur	***	***	,		23 37	41.68	' -44			
Lucknow	***	413	***		21 02	84 79	-40			
Fyzabad	•••	***	***		25.42	36 .68	-31			

The maximum defect recurred in the ill-fated Bánda district, which received only 31 per cent. of its average.

The abrupt termination of the monsoon a full month before the normal time was even more injurious than its deficiency. Excessive evaporation proved as harmful as deficient rainfall. Six weeks of hot west winds at a critical period not only destroyed much of the autumn crops which otherwise would have given a moderate yield, but jeopardized the prospects of the spring harvest.

The consequences of this drought, and of the critical condition of the harvests which it entailed, were quick to make themselves manifest.

As the rains held off and a hot wind set in which dried up the soil and withered the crops, a feeling of grave anxiety became apparent. It was not confined to the districts which had already suffered, but spread to other and larger tracts which had hitherto required no special care. The reports which reached Government began to give most gloomy accounts. The standing crops were drying up or being fed down as fodder; the hot hard ground was unfavourable to the sowings of the spring harvest, which were sadly restricted. There was no failure of food supply as stocks were maintained in the distressed tracts by imports which were resumed on a brisk scale and as a great part of the produce of the early autumn crops had been stored in their own houses by the cultivators, who were filled with apprehension for the future. This latter movement, useful in itself, excluded from the market much grain which usually found its way there and so served to enhance prices. The day-labourers soon exhausted the scanty stores they had saved from their grain wages during the short autumn harvest and came to the market as purchasers. Under these influences prices everywhere steadily rose, and before the end of September had in many places reached the famine level. The following statement compares the prices current on the 1st October for the chief food grains ordinarily consumed with the normal prices, as stated in Appendix A of the Famine Code:—

Seers per Rupee.

		Wheat.		Barley.		Gram.		Bros (commen).		Juár.		Maise		Arkar.	
r						ı		Srs.		•		•			
Normal	***	14	12	19	9	20	18	12	2	20	2	20	14	15	9
1st October 1896	***	8	18	11	1	10	14	8	14	12	0	18	2	10	13

The immediate effect of this great increase of the prices of food grain was to drive the poorer classes to eke out their diet by such wild produce as they could gather in the fallow and waste lands. Cultivators at this stage had still some reserve from the last crops which they economized by restricting their rations. They still further husbanded their resources by doing. with the help of their own families, a larger share than usual of whatever field labour there was to be done. This again had the effect of further limiting the employment available for day-labourers, who suffered already from the conditions which restricted ploughing and sowing-a limitation which would have been even more serious but for the work afforded by the unusual spread of artificial irrigation, to which reference will presently be made. A feeling of apprehension and unrest became perceptible, first in those tracts which had already passed through one season of distress, and then spreading to fresh regions as prospects grew more gloomy. It showed itself in various characteristic ways. The public works which were still open began to attract more labourers and the poorhouses more inmates. In both cases the new admissions included persons in reduced condition. Private charity contracted, and beggars became numerous in the towns and bazárs. The traditions of the Indian people had made migration the only effective remedy in time of famine. The practice had its origin in the circumstance that no previous Government of the country ever attempted on a systematized and large scale to provide food for famishing people and that, from the imperfection of communications, the task would have been almost hopeless if attempted. But though the conditions have changed the instinct survives, and one of the first symptoms of impending famine is an impulse to wander, whereof indications were now observed. The movement was not serious—it soon ceased; but it was significant. At this stage parties of people from the adjoining Native States were observed passing through British Bundelkhand in search of employment or charity. Some made their way as far as Northern Oudh. This immigration was later on to assume very considerable proportions.

Along with this unsettled feeling could be detected certain symptoms of the spirit of disorder which hunger and distress naturally produce. The sudden increase of prices brought much hardship to those numerous classes who had to purchase their daily supplies, while it brought large profits to the grain-dealers who had laid in stocks when rates were easier. In other and more civilized countries than India it has been common for the masses to attribute famine prices to the concerted machinations of grain merchants, and to proceed to give practical effect to their belief by calling on the authorities to fix and enforce reasonable prices or, where authority is weak and passions strong, by plundering the grain stores. Neither at this nor at any later stage was such a feeling allowed in these Provinces to take active shape in deeds of violence or open defiance of the law. But a few isolated and insignificant occurrences of the sort, although promptly repressed, added significance to the rumours and signs which were now abroad, that such a feeling of exasperation against the grain-dealers was coming into existence and later on might become a force with which Government would have to reckon. Such rumours were themselves a source of danger, for grain-dealers, professing fear of plunder, threatened in some instances to close their shops. Such action would undoubtedly have precipitated a crisis among the people deprived of all means of obtaining food and persuaded that the merchants' object was to hold up their stores and still further multiply their profits.

Another disquieting and significant circumstance was the high rate of mortality reported from many of those districts where distress had prevailed through the summer. Two of the four districts in Bundelkhand and four of the six in Rohilkhand showed death-rates for September which much exceeded the normal mortality, and the October returns were even worse. It was true no starvation deaths were reported, and that special diseases, such as a peculiar form of fever affecting poor and rich alike, accounted for many deaths; but there still remained reason to apprehend that where the crops had failed, scanty or unsuitable nutriment had rendered a portion of the population unusually susceptible to disease or had weakened their power of resistance.

These circumstances arising from an abnormal season, following en seasons also unfavourable, had never ceased to cause anxiety to the Government, and this anxiety grew as September wore on without rain. By the middle of September that situation had become sufficiently grave to call for preparatory or precautionary action; and accordingly on the 21st September this Government sounded the first warning note in a letter addressed to the Commissioners of divisions. In this letter it was pointed out that generally speaking it might be said that, except in parts of

the Agra, Gorakhpur, and Lucknow divisions the state of the crops up to the last week of August had given no substantial ground for anxiety. The rainfall had indeed in almost every district been tardy, and less than the normal quantity had fallen: in several districts very much less; but the rain which had fallen was on the whole opportunely distributed, and the crops had germinated well. But since the latter end of August in some districts, and in others from an even earlier date, there had been no rain of any consequence: the outturn of the early autumn crops had not been good, while in some districts these crops had seriously failed. In view of these warnings-the abnormal character of the season; the damage which the crops had already suffered over large areas; and the reduced circumstances of the people who had experienced a succession of bad harvests-the local officers were directed to take the following steps. Firstly, they were directed to make a complete survey of the agricultural condition of each district, which the fiscal organization enabled them without difficulty to do; to ascertain the exact condition of the autumn crops and the prospects of the sowings for the ensuing spring harvest; to estimate the degree of the failure threatened and the extent to which relief would in each event be required. Secondly, the District Officers were directed, should their inquiries establish the imminence of serious distress, to begin without further orders to organize the agency and methods of relief which, following the general lines of the Famine Code, were specified in the letter: and where symptoms of distress might appear, to open test relief works. In conclusion it was pointed out by the Lieutenant-Governor that in dealing with famine relief the all-important point to bear in mind was this-that the preparation should be well in advance of the pressure. "If pressure supervenes while preparations are incomplete, numberless embafrassments result. If, on the other hand, the executive is not surprised or overtaken by the famine, matters go as smoothly as in such cases they can go." It was pointed out that if main were to fall before the end of the month, the situation might be saved, and there might be no necessity to undertake relief measures on a large scale; but "the necessity is not increased by timely preparation; while the cost to the State is greatly lessened and the advantages to the distressed population greatly enhanced by the existence beforehand of a settled programme and an organization ready to be called into immediate activity."

To this call on their energy and local knowledge the Commissioners of divisions, the Collectors of districts, and their various subordinate officers responded well: and to this timely preparation must be attributed much of the success which has rewarded their exertions in dealing with the famine. Experience of famine administration teaches no lesson more clearly than this—that in famine times acute distress appears with

suddenness, and that confusion, loss, and suffering are certain to ensue unless an adequate organization has been matured beforehand and made ready to meet pressure when it comes.

As September drew to its end without any rain, the anxieties of the Government were confirmed, and the time had come to address the Government of India. Accordingly, on the 30th September the Lieutenant-Governor laid before the Governor-General in Council a premonitory statement of the then existing condition of the Provinces, of the mischief already done by the drought, and the steps taken to counteract it; of the extent of the calamity which might be anticipated if no rain should fall; and of the measures which would be adopted to relieve the severe distress which would then inevitably ensue. In particular the various large projects of railway and canal construction which might possibly be undertaken as relief works were arrayed, and the question of food supply and prices were considered. This latter question had begun to agitate the public mind very much: various representations were made to the Lieutenant-Governor in connexion with it by local bodies and influential private individuals: the universal feeling in Native society being that the Government should intervene to stop exportation and to regulate prices. The following extract from a letter, which the Lieutenant-Governor caused to be addressed to one of the Oudh Associations, will explain what attitude this Government took up in this connexion :-

"I am to say, with reference to the first of these proposals, that the Lieutenant-Governor and Chief Commissioner is unable to assent to the proposition that Government should enter into competition with the graindealers of the country. So far from being beneficial, such competition would, in His Honor's opinion, be mischievous in the extreme. There is no reason for fearing that private trade will be unequal-while there is good reason for expecting that it will be more than equal-to the task of meeting the demand for grain. It must not be forgotten that the grain trade of the country is of enormous extent; that the free flow of this trade has been immensely facilitated in recent years by the construction of roads and railways (the product of a wise employment of the Famine Insurance Fund); that stocks from other countries are finding their way to remunerative markets here; and that, as the great economist Mr. Mill said (in exposing the errors of the proposal which you renew), 'though a Govern-'ment can do more than any one merchant, it cannot do nearly so much 'as all merchants.' The intervention of Government, more especially at this early stage, would have the effect of crippling, discouraging and disorganizing the existing machinery of private trade for the supply and distribution of grain, without affording any adequate substitute."

Later on the Governor-General in Council, addressing the Government of Bengal, gave the sanction of his great authority to this view of the question. The result has signally vindicated the wisdom of this decision.

October had now been reached, and with it that state of public feeling which has been described in the foregoing

paragraphs. Famine, though imminent, had not actually declared itself: for the people had in the scanty produce of the autumn crops then being harvested something to live upon. The Government had taken measures sufficient to guard against a sudden surprise and to enable it to deal with distress when and where it should arise; and there was nothing more to be done in this direction until the submission of the replies to the Circular letter of the 21st of September should place the Lieutenant-Governor in possession of the actual condition of each locality. But the state of public feeling was threatening, and every rainless day that passed placed in greater jeopardy the prospects of the spring harvest of 1897. A failure of the spring harvest meant utter disaster. Prompted by the dread of such disaster, the plan was conceived of promoting such an extension of artificial irrigation as would counteract to some large extent the deficiencies in the rainfall, save some of the standing crops, and permit of the spring crops being sown. The Lieutenant-Governor's hope was that if by means of artificial irrigation the cultivators were enabled to sow a substantial area, the winter rains would, under God's providence, come, and bring the crop to maturity in ordinary course. Accordingly, throughout October and until the season for sowing the spring crops had ended, the supreme object of this Government's policy and endeavour was to encourage the people to make the utmost use of the canal systems for irrigating the standing crops and preparing the ground for further sowings: and by means of direct advances of Government funds to cultivators and suspensions of the revenue due from the landlords to stimulate the construction of kachcha or temporary wells for irrigation purposes. The results of this policy will be exhibited in figured statements in an appendix, but here it may be said that the success attained exceeded all expectation. In normal years the autumn crop area irrigated from canals is 765,000 acres. In 1896 it reached the great total of 1,240,000 acres. In ordinary years the spring crop area irrigated from canals is 1,219,000 acres. In 1896-97 it rose to 1,880,000 acres. As reported by the Chief Engineer in the Irrigation Department:-

"The estimated value of the crops in 1896-97 raised by this irrigation amounts to nearly 13 crores of rupees, the average value of the crops being taken at Rs. 42 per acre—a sum which exceeds by 50 per cent. the total cost of the canals. One and one-half million tons of edible produce were rendered available zs food for the people—a quantity sufficient to feed for 12 months one-fifth of the entire population of the North-Western Provinces."

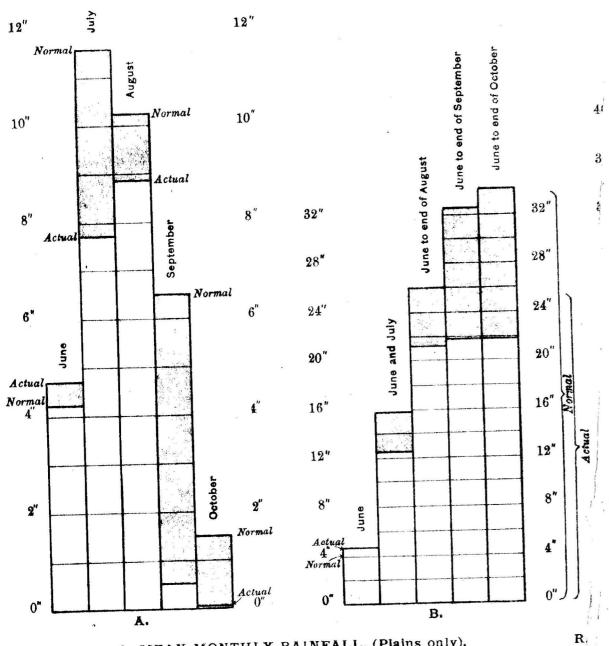
In the canal districts the competition for water was so great that only careful executive management was called for whereby the water-should reach the fields with the minimum of delay to the cultivators. But on the Betwa Canal, in the Jalaun district, the Lieutenant-Governor thought it prudent to reduce the water-rates in order to induce the people of

DIAGRAI SHOWING THE RAINFALL

N. W ROVINCES & OUDH
DURING THE RIOD OF THE MONSOON OF 1896.

during period

6-31st October, 1896.



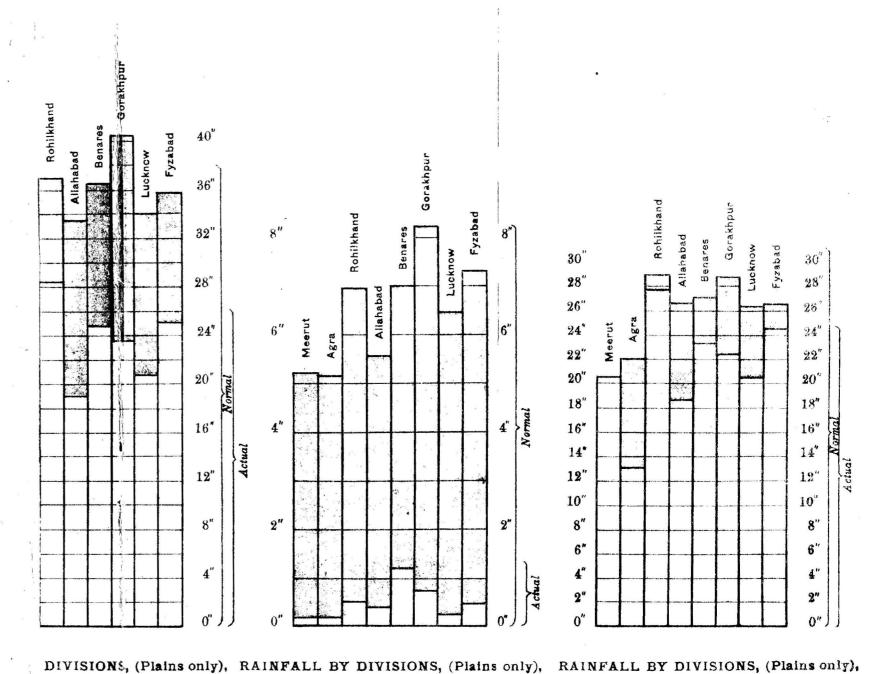
A. MEAN MONTHLY RAINFALL, (Plains only),

June-October, 1896.

B. MEAN TOTAL RAINFALL, (Plains only),

throughout period

June-October, 1896.



September, 1896.

during period

lst June, 1896-31st August, 1896.

Litho, T. C. Press, Rearkes -- No. 4394 -1

that district, unaccustomed to the use of canal water, to avail themselves of the boon. Partly owing to this reduction in water-rates, partly to other reasons, it came to pass this year that the irrigated area in the Jalaun district rose (to quote from the Chief Engineer's Irrigation Report) from about 8,000 acres in 1894-95 to nearly 82,000 acres. The canal watered altogether 87,306 acres in its three districts,

"In these 87,306 acres no crops could have been grown without the aid of canal water. The value of the crop thus produced is estimated to be 23 lakes of rupees—a sum equal to one-half the capital cost of the canal. The weight of food produced derived from the irrigated area is estimated at 27,500 tons—a quantity sufficient to feed about one-third of the population of Jalaun for one year."

The Betwa Canal is a protective work and pays as yet no interest on its capital; but without it this year it would have been more than difficult to save the Jalaun district.

But great though these results in the canal districts have been, it was in the districts unprovided with canals, in which category all Oudh falls, that the policy under notice of forcing irrigation received its most striking vindication. It is customary for the Government to assist landholders and tenants by making advances of money for the improvement of their land or the cultivation and protection of their crops. Two Statutes are in force which authorize and control advances of State money for these purposes, prominent among which are masonry wells. These wells can be constructed almost everywhere; but their construction is slow and costly; while water for irrigation was wanted at once In this emergency the full force and influence of this Government was directed to encouraging the construction of kachcha or temporary wells. Over very large tracts of country it is possible to construct cheap temporary wells without any masonry lining, supported at most by an interior framework of rough wickerwork or wattle coils. Where such wells are practicable, the tenantry are skilled in their construction and can make them for a small cost. Each well, it is true, serves but a small area, but many wells would irrigate a large area. When it became evident that the rains had failed and artificial irrigation was necessary to save a portion at least of the crops, and to ensure a successful sowing of the spring crops instructions were issued to District Officers to encourage and assist the people in every way to construct temporary wells, and for this purpose and for the purchase of seed grain the sum of 31 lakhs of rupees in round numbers was, with the sanction of the Governor-General in Council, placed by this Government at their disposal. In view of the special circumstances, these advances were to a large extent made free of the interest usually paid. At the same time steps were taken to associate the landlords with the Government in this measure and thus greatly enlarge its

scope. This was effected by suspensions of revenue whereby the landlords were freed from the necessity of pressing their tenants for rents, while the tenants were enabled to spend in wells what they would have, in other conditions, to pay as rent. Moreover many landlords, relieved from the immediate pressure of the revenue demand, came forward to help their tenants. The suspensions of land revenue sanctioned at this time, with the consent of the Governor-General in Council, amounted to 105 lakhs of rupees. Discretion within this limit was given to the Board of Revenue and to District Officers acting under the Board's control: it was however found possible to secure the desired object by suspending one crore of rupees in round figures.

The effect of these measures can scarcely be overestimated. Not only did the resources thus placed at the disposal of the people enable them to save crops which would otherwise have perished and cultivate land which would otherwise have lain fallow, but the example thus given roused many who, with the apathy of the fatalist, would have sat waiting events and staking their existence on the chance of rain which did not come. Stimulated by the Officers of Government, who went freely among them urging them to exertion, they shook themselves free of their traditions, and encouraged by the prospects of protection and support in their efforts at self-help, the agricultural community rose to the occasion. A census taken by districts gives the number of temporary wells constructed under this stimulus at the enormous number of 550,759. The number of masonry wells constructed is placed at 4,227, and many others were repaired and improved. Other facilities for irrigation, such as embankments and tanks, were largely extended. Altogether it is calculated that the additions made to the various sources of irrigation at the moment were sufficient to protect 1.381.494 acres and produce 465,000 tons of food. The policy of stimulating the construction of temporary wells was thus signally justified by the result.

The moral effects of these measures were scarcely less beneficial than the material advantages. The Commissioner of the Fyzabad division, writing in November 1896, refers to the advances for wells in these words:—

"I would invite attention to the marked spirit of energy aroused among the agricultural classes by the system introduced of giving timely advances for earthen wells to village communities on the joint security of proprietors and tenants. In many villages a system of co-operative labour has been organized out of the funds so advanced, with the very best results: every man having an interest in seeing that the money is devoted to the purposes for which it was given. The stimulus so imparted has been widespread, and has led indirectly to the construction of many wells other than those paid for out of Government funds. The people have thus responded to the aid so opportunely given them in a manner that must be seen to be realized; and the heart given them has enabled them

to meet the crisis with a spirit that in 25 years' residence in India I have never seen equalled."

The Collector of Cawnpore writes thus, referring particularly to the advances for seed-grain:—

"Everybody was buying corn and nobody would sell at a reasonable price: it was feared that cultivators would not get seed. At this time Government stepped in and gave advances freely. Government officials used their influence with landlords and money-lenders to help their tenants as usual. The moneyed classes, seeing what Government was doing, came forward to give seed. I have no hesitation in saying that if Government had not given advances on a large scale, then the area sown would have been very much less. It was not merely the actual sum distributed which made the difference, but the feeling of confidence engendered. It was the 'Ikbal-i-Sarkár,' and to use a colloquial phrase, Government was 'backing its luck.'"

Besides the advances made by Government under the Agricultural Loans and the Land Improvements Acts to which reference has now been made, great assistance at this time was given by the operations of the Opium Department. The statistics furnished by the Benares Agency show that advances made for construction and repair of wells during the famine period aggregate about a lakh of rupees and represent an addition of about 37,500 acres to the irrigated area. The other sums paid in advances to poppy cultivators between July and December 1896 amount to no less than Rs. 35,40,000. This very large sum, which represents in effect a vast number of loans made without interest to the cultivating classes, gave most valuable and opportune assistance to a large number of distressed districts. In one of them alone-Rae Bareli-the villagers received in this way loans amounting to almost 23 lakhs of rupees. Later on in the spring of 1897, when the opium was gathered and weighed in, payments were made to the cultivators aggregating over 84 lakhs, and when the accounts were finally closed in October the further payments then made came to about 131 lakhs. Besides these large sums about 34½ lakhs were advanced from August to October 1897 on account of the coming crop. The cultivators of these Provinces were thus financed during the Scarcity period by the Opium Department to the extent of nearly 1682 lakks of rupees (equal to over one million sterling at current rates of exchange). Nearly all these transactions took place in distressed districts, as poppy is not grown in the Meerut and Kumaun divisions, which alone escaped the famine.

Satisfactory as was the material outcome of these measures, their moral result in securing the peace and order of the community was no less beneficent. By this time the people had begun to realize their position. The autumn crops had failed disastrously in extensive regions; the spring crops were threatened with equal failure; prices had already reached famine height; stocks had run low, and the food supply at any price seemed precarious to many. The people found themselves

face to face with a famine, and by their traditions a famine meant starvation, death or wholesale migration. State relief on the scale that has now been given had not entered into their conceptions. A feeling of apprehension and unrest had arisen which had its dangerous aspect. There were ominous signs that a spirit of turbulence was growing among those classes who would not quietly submit to starve while there was food for others. In other famines such signs have found visible shape in gang robberies, incendiary fires which give opportunities for plunder, food-snatching from shops, the multiplication of petty thefts; and have been reflected in the panics which led grain-dealers to close their stores. Some of these crimes occurred in these Provinces in October 1896, but they were never aggravated; and the authorities were prompt and powerful to repress them. But to Government, watching the signs of popular feeling, they were significant and disquieting. At this crisis the action of the Government which has been now described turned the minds of the people to peaceful pursuits, supplied them with means .to secure a substantial part of the harvest which nature was denying, and by ensuring a crop to watch and tend and reap, bound them to their homes. Above all it created a feeling of confidence that Government was alive to their difficulties and prepared to protect and assist them with all its great resources. The forces which make for order were rallied and the bonds of society which showed signs of relaxation were drawn tight again. Thenceforth crime ran in the ordinary lines, as will be shown in the sequel. Offences were, it is true, far more numerous than in times of plenty; but they were mostly pilferings, the work of individuals rarely moved by a common or concerted motive, and not the outcome of a spirit in which the body of the people shared or sympathized. The community as a whole displayed a spirit of patience and discipline so admirable and so general, that it was deemed unnecessary to strengthen, to any appreciable extent, the ordinary police force of the Provinces. On the great Public Works which found employment for more than a million and a quarter of people order was preserved by the people themselves.

One other protective measure should be noticed here. When it became apparent that there would be an extensive failure of the ordinary crops, District Officers were consulted as to the desirability of encouraging and assisting the cultivation of quick-growing vegetables, which mature rapidly and yield a large outturn in a small area—an important point where water for irrigation was scarce. The general opinion was favourable to the proposal, and carrot and potatoseed were selected as the most suitable and generally used. Potato seed was procurable from the hill districts and other localities not affected by scarcity in sufficient quantities. Indigenous

carrot seed was also to some extent procured and distributed among the people; but the quantity available proved quite insufficient to meet the demands of District Officers, and indents were made on the Government of India and the Secretary of State for large quantities of European seed. The response was prompt and helpful, but the larger portion of the consignments arrived late. It was found that the imported seed requires the whole cold weather to mature and must, to be thoroughly successful, be in the ground by October. The portion of the English seed which arrived first turned out moderately well; but on the whole the seed did not yield the results which were hoped from it. The real value of this resource in time of famine will not be known till the coming year shows the outturn of the seed which remained unsown, and which has been held over for timely planting this year.

The indigenous or acclimatized carrot seed germinated excellently, and though the potato seed did not do so well in some districts, yet the general result proved most beneficial. An unusually large quantity of cheap and wholesome vegetables became available in advance of the ordinary spring cereals, and made a timely and valuable addition to the food supply of the people.

Reference has already been made to an important measure of relief: namely the suspension of portion of the land revenue; but a more detailed reference to the matter is desirable. The land revenue instalments which are paid out of the proceeds of the autumn harvest fall due in these Provinces, generally speaking, in November and December. When the time for collection drew near, it became evident that in the distressed tracts many of the poorer proprietors would be unable to meet their liabilities or would be able to meet them only by recourse to the moneylender. Lenience in enforcing the claims of the State on revenue-payers was clearly necessary, and accordingly inquiries were set on foot and the resources of the revenue-payers and their claims to consideration were duly weighed. In districts and villages where the crops had succeeded the high prices of produce placed both tenants and proprietors in a position to meet their engagements with unusual ease. Where the crops had failed, the condition of the agricultural community called for moderation in enforcing the State demand. In the end sums aggregating in round figures one crore of rupees were suspended out of the autumn demand and held over for future consideration.

Later on, when the spring instalments of revenue fell due in May and June 1897, further suspensions were made, aggregating about 44½ lakks of rupees, while fresh enhancements of revenue in Oudh, amounting to about 3 lakks of rupees, were postponed. The total suspensions made on the autumn and spring land revenue instalments amounted, therefore to nearly one and one-half crores of rupees.

This large measure of relief had an excellent effect on the capacity of the people to withstand the pressure of hard times. It saved the landholder from grave embarrassment, freed him from the necessity of contracting debt, and left him in a better position to assist his tenantry. It saved the tenantry from the full pressure of paying their rent. By the law of the North-Western Provinces the suspension of revenue to the landholder carries with it a suspension of double the amount in rent to the cultivator. Though no such provision exists in the Oudh law, yet the proprietors were at least relieved from the necessity of forcing on their rent collections, and but few instances have come to the Lieutenant-Governor's notice in which the Talúqdárs of Oudh have not shown to their tenantry the same lenience which Government has shown to them.

Since the termination of the Famine the Lieutenant-Governor has, in conference with the Board of Revenue and in the light of the most recent local information on the state of the country and condition of the people, considered how far these suspensions should be entirely remitted and written off the Government accounts as irrecoverable. The country had passed through a trial of very great severity; and although wonderful recuperative power had been shown, there was no doubt that cultivation and industry would be depressed by the burden of debt, while it would be stimulated and encouraged by the reduction of the arrears within moderate limits. The conclusion arrived at was that, subject to the approval of the Government of India, offers should be made to the landlords to write off 60 lakhs, or about 42 per cent., of the arrears on condition that the remissions were passed on to their tenants in accordance with the relevant provisions of the law referred to above. The Governor-General in Council has now signified his approval of this liberal measure of remission. The balance of the arrears will be collected by instalments commencing from next spring and extending over two years Thus the land-owning and cultivating classes of these Provinces will be enabled to replenish their grain stores from the present abundant harvest and to face the future with cheerfulness.

CHAPTER IV.

Extent of the failure of the "kharif" or autumn harvest of 1896.

In the preceding chapter the nature of the failure in the monsoon of 1896 and the efforts made to counteract its worst effects have been stated: it is now necessary to display the effects which the failure produced on the autumn crops which form the chief sustenance of the poorer classes of the people of these Provinces; and in the prospects of the ensuing rabi or spring crops.

The reports of the various Commissioners and District Officers, rendered in response to the call made on 21st September, and subsequently supplemented by detailed statistics furnished by the Agricultural Department, showed that, generally speaking, the harvest was good in the Meerut division and in the canal-irrigated parts of the Agra division; that there was considerable failure in the remainder of the Agra division, in part of Rohilkhand, the north of Oudh, and parts of the Benares district; still more severe failure in the rest of Rohilkhand and parts of the Gorakhpur, Fyzabad, and Allahabad divisions, and that the failure was greatest in the Lucknow division and in outlying districts to the east and south. The area least affected contained about 12,000 square miles with a population of about six millions: the area of considerable failure consisted of something under 25,000 square miles with a population of 12½ millions. The area of severe failure covered 31,000 square miles with a population of something over 134 millions, while the area of greatest loss contained something over 25,000 square miles also with about 13½ million people. The area of the Kumaun division is excluded from these calculations, as from the beginning its condition was not such as to cause disquietude.

In the first of these four portions the autumn harvest yielded not less than three-fourths of the normal outturn, and here no difficulties were experienced except such as arise from sustained high prices; in the second portion the outturn varied from one-half to three-fourths of a normal yield; in the third portion the outturn fell between one-third and one-half; but in the fourth portion the outturn did not exceed one-third of an average harvest with considerable areas of total failure. The circumstances of Bundelkhand, however, which had suffered from famine in the spring, summer, and early autumn, and which thus entered on the period of greater stress with greatly reduced resources, call for its classification with the worst portion, although in three out of its four districts, the

outturn of the autumn crops slightly exceeded one-third of an average harvest. In this way the area of greatest failure may be regarded as covering about 35,000 square miles with a population of 15\frac{3}{4} millions.

An estimate has been framed by the Director of Land Records and Agriculture, which aims at showing how far the actual outturn of the autumn harvest fell short of an average outturn. In this estimate due allowance is made for the failure of those crops which, though included in the sowings, never bore fruit. The best calculations which can be made on this basis show that the outturn of food crops of the autumn harvest was only 39 25 per cent. of an average yield. Sugarcane and the arhar pulse have not been included in this estimate, because, though sown with the autumn crops, they are gathered with the spring harvest: but the estimate includes the area of the larger millet (jawar) recorded as "food crop." This millet is, however, also very largely grown as a fodder crop, and it happened this year that a great deal sown for food was eventually cut for fodder It is a large crop, and if allowance is made for the transfer from food to fodder area, the total provincial outturn of the autumn harvest will be reduced to 38 per cent. of an average harvest.

Though the heaviest failure was in rice, yet it has not followed that the largest rice-growing districts were the most seriously affected. Rice is always a more or less precarious crop, being dependent not only on sufficient but on timely rainfall. The failure of a single crop does not involve acute distress, as a full rice harvest will carry the cultivator through one or two poor seasons. But in many districts the harvests before 1896 had been poor, and it was in those districts where the people had been impoverished by several successive years of deficiency that the failure of the autumn crops of 1896 was followed by the most serious consequences which this narrative discloses.

The Director of Land Records and Agriculture has submitted estimates quantifying the loss of food grain thus caused. A great deal of uncertainty enters into all quantifications of crop outturn or crop failure, and nothing more than an approximation to the truth can be claimed for them. But with this qualification it may be said that in an average year the total yield of food grain from the autumn harvest in these Provinces is estimated to be 5,370,000 tons. Last year the yield was about 2,055,000 tons. The loss was therefore 3,315,000 tons, which at normal prices may be valued at not less than 16½ crores of rupees (about 11 millions sterling at current rates of exchange). If it be remembered that the coarse rice, the great and lesser millets, and the maize, all of which are autumn crop staples, furnish the ordinary food of the poorer classes, it will be at once perceived what a terrible disaster had overtaken the Provinces.

The forecast of the ensuing spring crops increased the gloom, as the area of the spring sowings was estimated at this time to be only 58 per cent. of the normal cultivation. Fields which had not been ploughed while the rains still continued became baked and would not yield to the share. This was specially the case in the double-cropped lands, for the rains had ceased before the autumn crops could be removed from them. To a great extent they had to lie fallow. Even where the land could be ploughed, the dry and heated soil was adverse to the germination of the seed. The gram crop, which is the earliest sown and is a coarse staple largely consumed by men as well as by animals, suffered so severely that later on its price exceeded that of wheat. It was in this emergency that the construction of temporary wells already referred to was forced on; and even this resourcethe unusual and forlorn resource of irrigation to secure the spring sowings-was contracted by the extraordinary demand for water to irrigate the standing crops. In the canal districts, where a large supply of water was available, the area usually watered for the purpose of sowing is quite inconsiderable: in 1896 almost the entire irrigated area (1,888,125 acres) was so treated, although in these districts the later rains had not failed so completely as elsewhere. On the whole, there were at this time serious apprehensions that the failure of the autumn harvest would be followed by an equal or even greater failure of the spring harvest.

The extent to which each part of the Provinces suffered from these adverse conditions will be shown hereafter in more detail. But here it may be noticed that the deficiency of the rainfall and the other obstacles to the cultivation of the spring crops pressed most heavily on the unfortunate Bundelkhand districts, where the area sown for spring reaping varied from about one-fourth to one-half of the usual extent, and what was sown remained much more dependent here than elsewhere on the further rainfall for its security. By the same fatality the afflicted district of Hardoi came off worse than any of its neighbours in Oudh or Rohilkhand. One-half its fields remained unsown.

All these facts bear witness to the severity of the failure in the autumn and to the poor prospects of the spring harvest, and taken in conjunction with the agitated condition of public feeling which prevailed, they placed beyond doubt the imminence of a great famine in large regions and scarcity in the rest of the Provinces. Opinions differed as to the degree of destitution which would prevail before the next year's harvests should have replenished the food supply; but District Officers were satisfied that if widespread mortality from starvation was to be avoided, Government would have in the interval to support for six months a daily average of it

might be one million, or it might even be nearly two millions of souls. The least sanguine estimate placed the maximum number that would require relief for one day at 335 millions: while even the most sanguine estimate did not place this number at less than two-thirds of that appalling total. The numbers that actually came on relief were 284 millions, exclusive of 30 millions more relieved from the Indian Charitable Relief Fund.

CHAPTER V.

Organization of the Relief System.

SUCH was the state of affairs when in the end of October the Lieutenant-Governor commenced his tours through the famine and scarcity districts, which with necessary intermissions lasted till the end of July 1897. The objects of the first tour were these. In the first place the Lieutenant-Governor wished, being himself newly come to the Provinces, to make the acquaintance of every gazetted officer on whom, each in his own sphere, would devolve the duty of carrying out the relief system according to the principles of the Famine Code or the orders of Government. In the serious business on which all were entering success might often depend on the choice of particular men for particular duties and on the establishment of harmonious relations between the Head of the Government and the local officials. (In testimony to the high average of administrative capacity possessed by the services of these Provinces be it here said that the Lieutenant-Governor during the entire campaign hardly ever found it necessary to remove any officer from the position in which the previous accident of service had placed him) But the chief objects of the first tour were these-in conference on the spot with the officers of each division, the Commissioner, District Officers, Sub-Divisional Officers, Police Officers, Medical Officers and officers of the Public Works Department, to examine again in detail the condition of each district in turn; to gauge in the light of the agricultural statistics for each district, which had now been verified, the degree of crop failure and the extent of the impending distress; to fix the strength of the establishments which to begin with (for they were expanded afterwards with the rise of pressure) were necessary to dispense relief and conduct the administration; to scrutinize the programme of relief works and guard against any works-except works of public utility-being undertaken from public funds; to assert the principle that the Commissioner should have within his division control of all relief agencies (his control over the Public Works Department not, however, extending to professional matters), and the Collector similar control within his district; subject to the preceding principle to allot to the Public Works Department its proper sphere of action and to Civil Officers their legitimate field of activity; to prescribe the functions of the Civil Officers and their subordinates in promoting village relief works, stimulating private charity and controlling the great field of gratuitous relief; and to establish independent local relief committees as an auxiliary to official endeavour. Generally speaking, the Lieutenant-Governor wished in these early

tours to receive suggestions, explain his own views, and decide doubtful points in the light of the best local knowledge.

The preceding objects were concerned chiefly with the organization of official action; but the Lieutenant-Governor was specially anxious to bring the Government from the very beginning into close touch with the landlords of each district and to associate them each in his own estate with the Government in the administration of relief and especially in bearing part of the cost of and the carrying out of village relief works. With this object informal darbars or conferences of landlords and other influential local residents were held at all divisional headquarters · they were repeated afterwards at district stations for the particular district. These darbars or conferences were very largely attended, and resulted in the establishment of cordial relations between the authorities on the one hand and the landed proprietors on the other, whereby the administration of relief has been much benefited. At these conferences the landlords were not slow to represent their own difficulties, which in many instances were further explained at private interviews with the Lieutenant-Governor, and the information thus gained was of great use in enabling the Government to see how far joint action and responsibility with the landlords was practicable and to decide on the precise extent to which the collection of the land revenue should be suspended pending the advent of better times.

The result of the Lieutenant-Governor's first tour was reported to the Government of India on the 23rd November in a letter which, with its appendices, displayed in detail the exact position of each district in regard to the failure of the autumn crop; the prospects of the spring harvest; the state of the markets; the anticipations of famine or distress; the magnitude of the difficulties to be dealt with; the manner in which the Provincial Government intended to deal with them, and other relevant circumstances calculated to place the Governor-General in Council in possession of all the facts of the situation. This letter with its appendices was subsequently published in the Gazette of India for general information.

It will be convenient at this stage to describe in some detail the relief organization which has been adopted in these Provinces: for although it followed in the main the principles of the Famine Code, experience dictated the necessity of various additions to, and modifications of, the Code rules These additions and modifications were introduced at various times on the suggestion of actual practice and necessity, and it was not until February 1897 that the system assumed in all respects its final shape. But the following description will give the finished product without regard to the sequence of improvement or development.

The principle which guided and inspired the administration of relief was at an early date declared in the following words:—

"The only limitation to the relief to be given will be the necessities of the people."

It is believed that this principle is reflected and preserved in each branch of the relief system of these Provinces now to be described. But the task of making each department instruct with this principle, and at the same time safeguarding it from dishonesty and lavishness, committed the Administration to constant struggles with chicanery and deceit. It is not suggested that assistance never reached those who might have dispensed with it, or that it was never intercepted, or that imposture was always unsuccessful. To the importunacies of the multitudes to be dealt with, there was no limit or restraint, while rapacious subordinates could not always be at once detected. But as the staff settled down to their work, the opportunities for deception or peculation were narrowed down, till it is believed that from an early stage of the operations but little Government money reached the hands of any who did not stand in real need of it.

The relief system prescribed by the Famine Code may be classified as follows:—

- I.—Employment on large relief works entered on the administrative programme (Article 17 of the Code) and controlled by the Department of Public Works.
- II.—Employment on small relief works (Article 65 of the Code) controlled by District Officers.
- III.—Employment at their homes for indigent respectable people who are incapable of labour on relief works or debarred by national custom from appearing in public.
- IV.—Gratuitous distribution of relief in poorhouses, State kitchens and hospitals to the poor and infirm unable to labour, until they had have become fit to labour, or to be sent back to their homes.
- V.—Gratutous distribution of relief at their homes to persons who are unable to labour and are reduced to distress.

RELIEF WORKS.

The first, and numerically the most important, form was relief works designed to afford employment to all who could not find it elsewhere and could not subsist without it. It was a cardinal principle of relief administration in the North-Western Provinces and Oudh that some labour should be exacted from everyone seeking relief who was not incapacitated for work by age or infirmity, or in rare cases (chiefly in case of women) by social status. From the able-bodied a full task,

from the weakly and from the children over 7 years of age a smaller task, graduated according to their various capacities, was required. This was the key-note of the system, and in judging of the system's material results, should not be forgotten. In pursuance of this principle vast numbers of inefficient labourers have been employed (to the lowering of the outturn of work done per rupee of expenditure); but it was deliberately decided that in the best interests of the people themselves industry should be encouraged and idleness or sloth discouraged. The best proof of the complete success of the policy adopted is to be found in the fact noticed in the sequel, that the relief works had no attraction, and that on the first opportunity the people returned, undemoralized and with cheerfulness, to their ordinary avocations.

Relief works were divided into two classes: (1) large projects of general utility affording employment to usually not less than 5,000 labourers, the bulk of whom were obliged to leave their homes and reside on or in the neighbourhood of the works; and (2) lesser projects, serving some local purpose and affording occupation to a smaller number of workers in the neighbourhood of their homes. The former class were managed by the Public Works Department: the latter were controlled by the District Officer through his immediate subordinates or through the resident village proprietors. In both alike earthwork was the almost universal employment as being the only one suited for unskilled labour. The embankment of roads and the excavation of tanks were the chief projects selected.

The first step on a large work is to divide the workpeople into gangs containing a certain number of groups of diggers and carriers (usually one digger to three carriers), and aggregating about 60 effective workers. To each gang is assigned a certain measured task, calculated to represent a reasonable day's work for average unskilled workers, and this task is usually subdivided among the component groups. Weakly persons are assigned proportionally smaller tasks. When the allotted task is finished, the labourers are free to go, having earned the daily wage calculated, on a sliding scale according to the price of grain, as sufficient to purchase a day's ration. Under this system it is not open to the labourers to earn a higher wage by doing a larger task. If the allotted task was not completed, a proportional deduction was made from the wages of the entire gang or of the group of labourers who were at fault, subject to a minimum which represents a penal or bare subsistence ration. Below this wages could not be reduced. The object of the arrangement was to secure to each person sufficient to maintain life in return for a reasonable task, and at the same time to make the work unattractive to persons who could support themselves or find employment elsewhere. The system did not enable

workers to earn enough to support those helpless members of their families who must remain with them and cannot earn their own living. Cratuitous relief was accordingly provided at the works for those dependants who, from age or infirmity, were themselves unable to render any task. The great bulk of the dependants were young children who formed about 90 per cent. of the whole dependant class. Dependants were paid on the lower scale provided for non-workers. They have naturally been more numerous at some places and seasons than at others; but from first to last the provincial average was one dependant for every five workers.

The Famine Code lays down that "while in the late stage of a famine 'large works' will be the backbone of the system of relief, small works should be utilized in the early days of a scarcity" From this principle the Lieutenant-Governor found it desirable to depart, for reasons which were duly communicated to the Government of India. While utilizing small works at all seasons to meet urgent demands for relief, he found it advantageous to employ them chiefly when the advance of the hot weather and the scarcity' of water or the outbreak of cholera had, in many localities, rendered it difficult or dangerous to keep large crowds of workpeople assembled in one place. But from the time famine declared itself till the works were finally closed, large works as a rule formed the backbone of the system wherever there were large numbers seeking employment and no natural obstacles, such as dearth of drinking water, interposed to render such projects impracticable. It is far easier to provide on large works than on small works that unceasing supervision of European officers which is essentially necessary to preserve proper organization.

The form of relief employment above described was restricted to "famine districts," that is districts in which distress was acute. But in " scarcity districts," that is in regions where distress was less severe, another form of relief work was employed which stands half-way between the Famine Code works just described and the system of contract labour by which public works are executed in ordinary years. It has been designated the "Intermediate system." A full description of the circumstances which led to its adoption will be found later on; but here it may be said that the essential difference between it and the system prescribed by the Famine Code is the substitution of piece-work for task-work and the exclusion of the minimum wage. Rates are prescribed and payments made according to the amount of work done, but a maximum task is fixed which limits the amount that can be earned in one day. The amount earned is divided between the diggers and carriers according to a fixed scale. The object of the system is to secure a proper outturn of work for the money paid, to prevent the congregation of a large number of ineffective workers, and to encourage

or enforce industry. At the same time the maximum task operates to prevent earnings becoming more than sufficient for reasonable subsistence. Under this system free doles are not given to dependants of the works, but the rates and tasks are so fixed as to permit workers carning enough to support the non-working members of their families In some localities where this system was enforced it was found necessary to distribute free rations of cooked food to the very young children of the workpeople. This additional relief was not necessitated by any deficiency in the rates of earnings, but by the callous neglect of their children by parents whose natural instincts were weakened by continued scarcity. The same necessity arose sometimes on Code works and even in home relief where the cash doles given to children were appropriated by their parents, and the authorities were compelled to substitute cooked food and see it eaten by the children in their presence. This method of relief was known as State kitchens. To these arrangements, which illustrate, with perhaps a lurid light, the difficulties against which Relief Officers had to contend, thousands of little children owe their lives.

Besides the relief works carried out by the officers of the Public Works Department a number of relief works were executed by private persons, either in a purely charitable spirit at their own expense or with the assistance of subventions by Government. Both alike usually took the shape of improvements in the estates of the persons concerned, the most common being the excavation of tanks. The former were entirely under private management. For the latter the cost of the project, according to official plans and estimates, was advanced by Government and an engagement taken from the person receiving it to repay within a certain time a fixed portion, generally one-half, of the entire outlay. The management of the work was left to the proprietor; but he was bound to pay labour at specified rates, and the work was kept under regular inspection to ensure that the funds were properly applied and the relief afforded to those who required it.

HOME EMPLOYMENT.

One more form of relief work remains to be enumerated. Women of a respectable class accustomed to support themselves wholly or in part by needlework, embroidery, and kindred occupations, men of good birth, unused to any form of labour, decayed families whose scanty means were outrun by famine prices—for such classes home work of a suitable character was provided without the loss of self-respect involved in the acceptance of charity. No class of the community demanded more commiseration than these patient sufferers, who would starve and die in silence rather than seek or accept alms. Such persons were sought out and relieved through the agency of private persons of their own community. This form of relief was most commonly required in

towns, and the cost was largely met from private subscriptions and the Indian Famine Fund, assisted by liberal State subventions. But the agency of distribution was under official control.

In several cities arrangements were made to find work at their own trades for artizans, chiefly weavers, whom the prevailing distress had deprived of employment. In Benares in particular, which contains a large community of impoverished weavers, numbers were thus enabled to carry on their ordinary occupation.

GRATUITOUS RELIEF.

In the ways enumerated above, employment was provided for all who required relief and were able to work. But beyond these is a great multitude of persons who are unfit for labour and accustomed to rely on others for their subsistence. Such persons do not comprise merely the ordinary mendicants who trust to the charity of the public, but also the helpless members of families who in all countries are a burden on their natural protectors. What may be called domestic charity is very far-reaching in India: it requires that those of all classes who have means should support or assist their distant relations, connections, and even caste brethren, who in Western countries would be left to State relief. This social piety is in fact the Indian substitute for the poor law of England.

For the members of these classes who were unfit for work it became necessary to provide gratuitous relief. As distress intensified and the resources of the people became exhausted, the efficiency of private and domestic charity was weakened. The poor were less and less able to support their poor dependants, and State intervention became necessary. Gratuitous relief was provided in different forms. One has been already described—the grant of free doles to the dependants of labourers on relief works. The rest may be divided under the two heads of the poorhouse and the distribution of outdoor or home relief.

Poorhouses were established at all district and subdivisional headquarters in famine districts and in suitable centres in the districts which were less distressed. They were open to all who were willing to submit to the test of residence and the necessary discipline. Except in the few cases where a suitable structure was already available, the buildings were of a temporary character, constructed on certain uniform principles to secure the health, safety and comfort of the inmates. Arrangements were made for cooking, sanitation and conservancy. Hospital accommodation and medical aid were provided, and clothes or blankets were supplied to those who required them, either at State expense or at the cost of the Indian Famine Fund. Though every care was taken to avoid caste objections and to secure the well-being of the inmates, yet poorhouse life was always repugnant to the people generally. The inmates consisted so largely of persons broken down by disease or infirmity that the institutions might have been more correctly described as infirmaries. Whatever there was of repulsive or shocking in the aspects of the famine, was to be found in the poorhouses, which, broadly speaking, were asylums for the reception of starving vagrants or homeless cripples.

The place occupied by the poorhouse in the scheme of relief operations was that of receiving house or temporary shelter for all who could not be otherwise relieved. The only permanent inmates were the infirm vagrants. The rules required the District Officer to sort out periodically the inmates of the poorhouse, to draft to the relief works those who were capable of labour, and to send to their homes those helpless ones who had any fixed residence, there to be brought on the village relief lists. In this way it was designed that the gratuitous relief system should consist, broadly speaking, of two great forms: first, relief on works for all in need of relief who were able to labour and their dependants; second, relief at their homes for all unable to labour, but in need of relief. The poorhouse remained then the refuge of the homeless infirm from whom it was hardly ever possible to exact labour. But when the inmates could work they were made to work

It may here be also stated that the orphans and other deserted famine waifs were collected, generally at district headquarters, in an orphanage, where they received special treatment. After a short residence the children were found to improve immensely in health and physique.

Outdoor or home relief required a very elaborate organization and a very extensive agency. Its aim was to seek out in their own homes all those who had been deprived of their ordinary means of support and were unable to work for their living, to test the reality of their claims, to bring them on a free list, to arrange for the regular payment of the allowances which, according to the fixed scale, might be found necessary for their support, and to strike off their names as soon as they appeared in a position to earn their own support or to claim it from any one able and bound to maintain them. These operations were carried out in every village in the famine districts, covering an area of 44,000 square miles with a population of $20\frac{1}{2}$ millions, and with less exhaustiveness in the "Scarcity" area of 28,000 square miles with a population of $14\frac{1}{2}$ millions.

The task was a comparatively simple one in towns where the people were collected within narrow limits and where voluntary agency was largely available. But for the

rural tracts the task was so enormous that it could not have been effectively and economically discharged without the agency already existing in these Provinces for the purposes of revenue and general administration. For fiscal and executive purposes the North-Western Provinces and Oudh are divided into divisions varying from about 10,000 to 17,000 square miles in area and presided over by a Commissioner. These divisions are again divided into districts with an average area of about 2,000 square miles and controlled by a Collector-Magistrate or District Officer, Every district is subdivided into subdivisions called tahsils, which again are split up into blocks or circles called "kanungo's circles," and these kanúngo's circles are again subdivided till the village or a group of hamlets is reached. The village is under the charge of a "patwari" or village accountant, who is a Government official, resides permanently in his village or group, and is personally acquainted with all its inhabitants. Over each circle of villages is a kanúngo or revenue supervisor and over each group of circles or tahsil is a tahsildar. One or more "tahsils" are under the executive charge of a superior officer, an Assistant or Deputy Collector.

This organization, which was taken as the basis of the relief system, was utilized to the fullest extent. Instead of attempting to introduce a new and special famine organization the original framework of the district administration was maintained and strengthened. Even the usual nomenclature with which the people and the officials are familiar was retained. The original relief circles coincided with the kanungos' (revenue supervisors') circles—the kanungo became the circle officer, and the special staff appointed to the same duty were styled additional or assistant kanungo. Even the officers in civil charge of relief works were known as relief naib (or assistant) tahsildars, and special relief officers of a superior grade were designated relief tahsildars. The existing district staff was everywhere utilized to the fullest extent in carrying out relief measures.

In these and other ways it was sought to work on lines with which the officials and the people were acquainted, to preserve official designations which in the people's minds imported a definite degree of responsibility, and to avoid the difficulties which might have arisen in building up an organization which would be unfamiliar to those who had to work it, and might be viewed with suspicion by the people. It was rarely found necessary to increase the "patwari" staff or to subdivide the territorial unit entrusted to these officials. But the number of revenue supervisors and assistant tahsildars was largely increased, each class being as far as possible recruited from the grade below, so as to secure the advantage of local knowledge and experience while stimulating zeal by promotion. Trained men were also drafted from districts not

affected by distress, and the services of approved candidates for Government service were freely utilized. The extent of country controlled by these officers, each in his own grade, varied in extent according to the physical conditions and intensity of distress in each district Where communications were difficult or when the prevalence of acute distress required close and sustained scrutiny, the area and population under each officer were narrowed down to limits he could effectively control. Under different conditions, larger charges, it was found, could be managed by a single officer The organization was commenced early in the famine by taking in every case the supervisor (kanúngo) circle as the unit, and these were subsequently subdivided and additional kanungos appointed where circumstances demanded according to the growing pressure of distress. As the hot weather and rains drew on and travelling became more difficult the charges were further narrowed. In the 19 districts officially recognised as faminestricken there were 467 circles with an average area of 95 square miles and population of 44,000. In the 18 districts classed as "scarcity districts," there were 225 circles averaging 125 square miles in area and 64,000 in population. Within these original circles again sub-circles were formed as pressure increased and it became necessary to lighten the charges.

The rules drawn up to guide officers in determining the proper recipients for gratuitous home relief are printed in the Appendix. Briefly it may be stated that lists were primarily drawn up by circle officers with the assistance of the village accountant and head-man, the proprietor or his agent, and respectable inhabitants of the place. These lists were made the basis of the subsequent procedure, which was as follows. The whole population of each village in turn in the distressed districts was mustered excepting those whose sex and status forbade them to appear in public. Those who were absent from the village were first accounted Then those present who were fit objects for relief were sifted out, and after due inquiry placed on the free list either as permanent or temporary recipients of relief A panchayet or committee of the respectable inhabitants of the village was then formed, and the claims of the "parda-nashin" women and others of that class were considered and allowances were allotted when deserved and required. Thus the entire population of the village-men, women, and children-were passed under review, so that no individual might escape notice or suffer from want of food. The lists so framed were tested and corrected by the superior staff visiting each village in turn, and were in all cases brought under examination by a European officer of the covenanted or commissioned grades. Recipients were furnished with printed tickets corresponding with the lists and showing the amount of relief to which they were entitled Thereafter each village was visited so far as

possible once every week or ten days by the circle or other superior Relief Officer whose duty it was to review the lists, muster the recipients (excepting women who could not appear in public), remove the names of those no longer entitled to relief, and bring on the lists any new persons who might be shown to be eligible.

The allowances were distributed in weekly or fortnightly doles through the village accountant, head-man or landholder nominated for the purpose; and it was the duty of the circle and supervising officers to see that no fraud was practised on the recipients or on the State.

This village relief was ordinarily given in cash. But, as explained in the case of dependants of workers, it was sometimes found necessary to provide relief in the shape of cooked food for children neglected and starved by parents who appropriated the cash doles for their own uses. In such cases kitchens were established at suitable centres and food distributed to the children who assembled to receive it.

In cities committees were formed consisting of official and non-official members, and directed by the District Officer or City Magistrate. The various quarters or wards of the city were divided between the members, and a house-to-house visitation established to ascertain the persons who stood in need of relief. The great bulk of these were persons, chiefly women and children, of respectable position whose occupation had failed from the pressure of hard times or whose scanty means no longer afforded a subsistence at the high prices prevailing. Such persons were disabled by the custom of the country and their family pride from appearing in public or asking charity. It was in numerous cases even a task of much difficulty to induce them to accept relief or to present it in a form which they could accept without loss of status and self-respect. Considerable difficulty was experienced at first in establishing this system of home relief

The difficulty was enhanced by the mistrust which attaches to a measure for which there was little precedent, and whereof the motives were imperfectly understood. To mistrust was added the difficulty arising from caste Many destitute people refused relief at first from fear that it would be followed by expulsion from their brotherhood. Curiously enough these cases were observed among the lower castes and were not confined to people who had a social position to forfeit. It required much judgment and infinite patience to meet both these unreasonable objections and the more reasonable ones based on a commendable feeling of self-respect and independence For many women of the better class home employment was provided in the shape of needlework, embroidery, and the like, or a market was found for their work. Every city contains houses of good and even imposing appearance, the survival of past wealth, with inmates sunk in the direst poverty. Not even the nearest neighbours or distributors of relief always knew the amount of silent suffering concealed within such walls. Many devices were employed to ascertain such cases and convey relief in an unobtrusive or secret way, and in the shape least calculated to hurt the susceptibilities of the recipients. In work such as this the services of native gentlemen and of European gentlemen and ladies connected with the various missions or charitable associations were found of the greatest value and fully utilized. The bare subsistence provided by the State was supplemented through the same agency by little comforts from funds provided for the purpose by the Famine Relief Fund.

CASUAL RELIEF.

Besides the regular relief afforded in poorhouses and by the organized village system, provision was made to meet the case of destitute wanderers at a distance from the relief centres. To this end money was entrusted to police officers, village officials, and head-men, wherewith they might succour any starving wanderer found needing relief, give him a meal, and arrange to pass him on to the nearest poorhouse or relief camp. The sum spent in this way was small; but many stragglers were helped who might otherwise have perished by the way. Besides the regular relief there was thus a network of casual relief covering the whole country.

RELIEF FOR CATTLE.

The preliminary preparations against the famine, devised in November 1896, included a careful estimate of the capabilities of the various State forests with the areas available for grazing and the number of cattle which each could support in a time of pressure. Though yielding a considerable amount of edible products, these reserves are chiefly useful in the way of affording fodder and pasturage for cattle in years of drought; and on this occasion there was not the excessive strain thrown on their supplies which might be expected in a great famine. When the abrupt termination of the rains in August 1896 destroyed the grain crops, it found the fodder crops well advanced. In fact a great deal of the crops sown for grain were eventually cut for fodder or grazed down. The winter rains revived and stimulated the wild herbage, and the many trees whose leaves furnish useful food for cattle did not generally suffer from drought. Thus, though the supply of dry and green fodder was defective and its price high, yet there was nowhere any complete failure, and in those distressed tracts where cattle were sold in large numbers they were usually sold in order to purchase food, and not because it had become impossible to support them. Though the urgency then was happily less pressing than it might conceivably have been, yet the resources of the State forests were fully utilized. The forests available for such purposes lie in two main blocks, the first and greatest in the submontane country along the foot of the Himálayas; and the second, a comparatively small tract, in Bundelkhand. It has been mentioned that the latter tract was thrown open both for free grazing and for the collection of edible products by the people during the Bundelkhand famine in the summer of 1896. The pasturage was closed again when the rains seemed well established in August; only to be reopened later on. Proper conservancy requires that State forests should be held in reserve to carry the cattle over the last pinch, when home supplies have been exhausted and no spontaneous growth can be expected till the advent of the rains Following this principle, the Bundelkhand forests were kept closed till there were signs that all available fodder supplies in villages were becoming exhausted. When this became apparent, the reserves were thrown open in April 1897 for free grazing and were fully utilized, though the scarcity of water rather than the scarcity of fodder placed a limit on their utility. In the sub-Himálayan tracts it was found sufficient to encourage, by exemption from fees and in other ways, the passage of herds through the belt of reserved forests into the great grazing grounds of Nepál, whose wellwatered and lightly-timbered plains possess advantages for pasturage over the closely preserved tree jungles in British territory.

All restrictions on the extraction by the people of the spontaneous edible products of the forests were withdrawn when those products were ripe for consumption. The entire forests were thrown open for the free collection of such products, and were largely frequented for the purpose by the people of the surrounding tracts. They remained open tall the 1st November 1897, when the autumn harvest had been secured.

CHAPTER VI.

Progress of famine and relief operations during the winter of 1896-97.

It will be remembered that when the rains ceased at the end of August, relief measures were being still carried on. though in a skeleton form, in some of the Bundelkhand districts and in the Hardoi district of Oudh. Early in September the growing pressure manifested itself by an increase in the number of applicants for relief not only in these districts but elsewhere; during the month of September relief calculated in units for one day was administered to 382,000 persons in nine districts. In October Collectors, acting on the instructions given them in the Government order of 21st September, found it desirable in many other places to begin test relief works. By the end of October distress had made itself manifest in a considerable part of Oudh, chiefly in the Luckney division. In the Rohilkhand division every district was threatened with partial failure, and in Agra the country outside the canalprotected area had begun to need relief. In parts of the Benares and Gorakhpur districts there were forebodings of the scarcity which subsequently developed there, and test works had become necessary. The hill districts of Kumaun, enjoying good harvests, lay outside the sphere of possible distress, while the Meerut division and part of Agra sat secure in their network of canals.

When the situation was reviewed by this Government towards the end of November, famine had unmistakeably declared itself in several districts and was developing 'in others. In the Bundelkhand group of districts, as already stated, the distress of the preceding summer, though it had abated with the advent of the rains and the autumn sowings, had never entirely ceased, and relief measures had remained continuously in operation, though on a reduced scale. As early as the beginning of October poorhouses were open in all the Bundelkhand districts and in Lucknow and Hardoi; and Government had also directed that this precaution should be taken in all large towns where the pressure of prices on the very poor classes was beginning to show itself. In Bánda, Hamírpur, and Jalaun village relief was in operation, and in all districts of the group works were open and attracting a substantial number of labourers. At first these were in most instances conducted as test works, but before October closed they had been converted to the full Famine Code system in all except Jhánsi; while in the Rae Bareli district of Oudh a sımılar measure had become necessary. At the same time test works

had been opened in several districts of the Agra, Benares, Gorakhpur, Rohilkhand, Fyzabad, and Lucknow Divisions-16 in all-while the appearance of destitute wanderers had rendered it advisable to open poorhouses also in some of these districts. During November the development of distress was more rapid and general. Prices continued to rise, and the employment afforded in garnering the autumn and sowing the spring crops had commenced to fail. An increase in crime, the indications of an unsettled feeling, and a tendency to wander in search of employment, gave warning that in the more distressed tracts the time had come for an expansion of relief measures. Here and there, as on the Jasra road in South Allahabad, a sudden rush on relief works showed that in the most impoverished localities the people were beginning to get to the end of the scanty addition which the autumn harvest had made to their resources. These wants were met and preparations were steadily made to anticipate the growing demand. Work projects were matured, tools and plant provided, poorhouse accommodation increased, while relief circles were formed and the preparation of village lists of all persons who would, so far as could then be foreseen, require and be qualified to receive gratuitous relief at their own homes, was pushed on in all districts where famine seemed imminent. At the commencement of October the numbers in the daily receipt of all forms of relief were 15,000 in six districts. By the end of that month it had risen to 99,200 and had spread over 29 districts, of which six had been recognised officially as distressed Of the total number relieved threequarters were workers, while those gratuitously relieved might be roughly divided into rather less than one-fourth in poorhouses, rather more than one-fourteenth in receipt of home relief, and the remainder dependants of workers. As the causes at work became more potent, the distress grew both more widespread and acute, and the numbers on relief increased with corresponding rapidity. About the middle of November the failure of the late autumn crops became definitely declared, while the employment afforded in garnering them had considerably slackened; the construction of temporary wells, so largely stimulated by advances from Government, approached completion; the spring sowings were arrested for want of rain, and irrigation alone continued unabated for the occupation of agricultural labour. Prices continued to rise and the poorhouses were rapidly filling. Between the 14th and the 21st November the poorhouse population had risen from 7,200 to 19,000, and the later admissions in some parts showed signs of emaciation. Labourers and their families began to flock on the relief works in the more distressed districts, the sphere of gratuitous relief continued to expand, and a certain number of cultivating tenants, too, found it necessary to seek employment or to send the idle members of their families to the works. Finally, signs of distress began to appear amongst

the petty artizans, weavers, and the like whose occupation had ceased along with the prosperity of their customers.

The gravity of the situation at this time was clearly reflected in the prices current of food grains, which in the beginning of November rose to a phenomenal pitch, as shown by the following statement, which gives for the chief markets in the distressed area the amount of grain (in seers and chhattaks) purchaseable for one rupee, 1892 being taken as a normal year:—

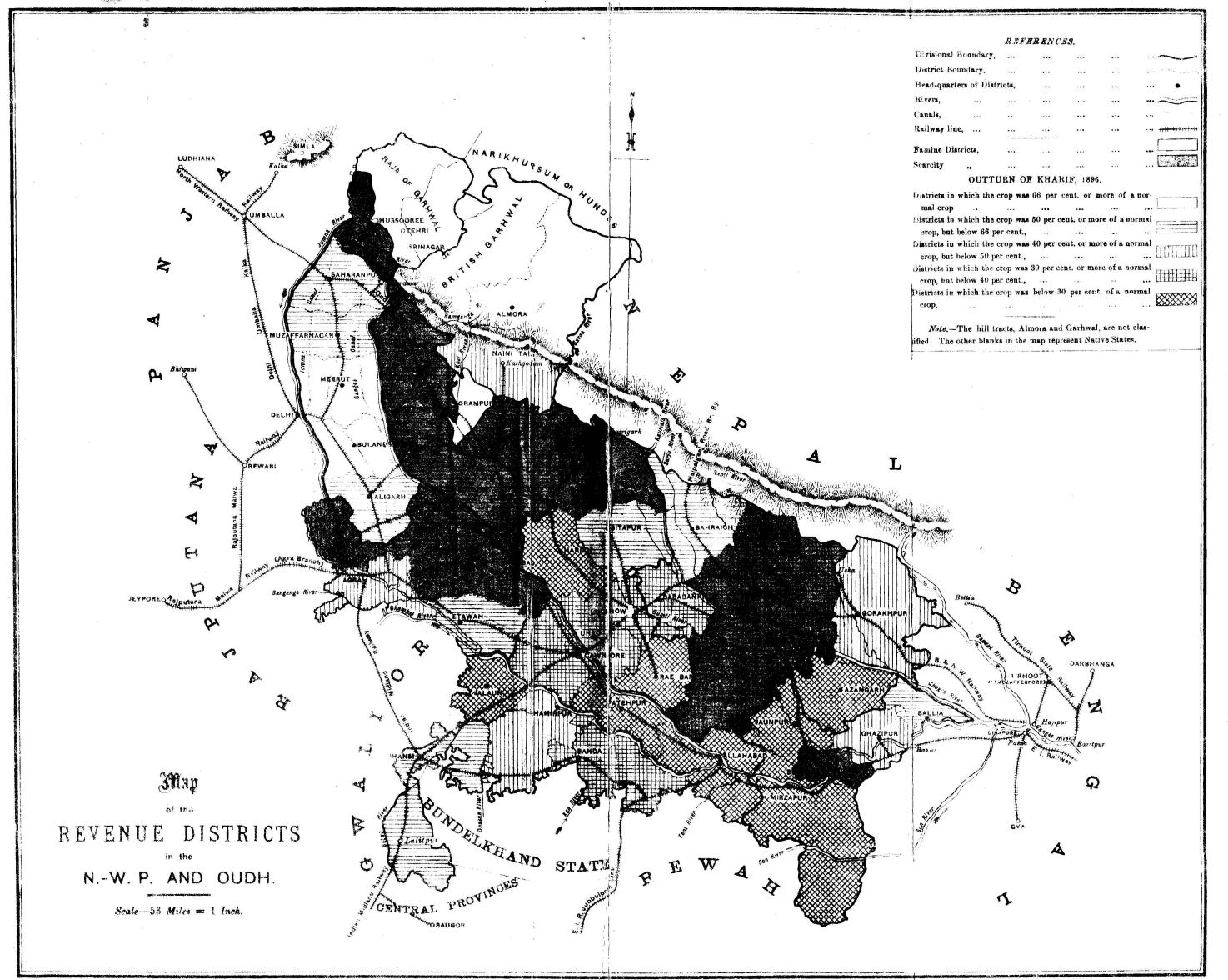
	Wheat.		Barley,		Rice (common),		Juár.		Maize.	Be	Bájra.	
Distrior	November 1892.	November 1896	November 1892	November 1896	November 1892	N ovember 1896.	November 1892	November 1896.	November 1892. November	November	November 1896.	
Benares Lucknow Cawupore Aliababad Jhánes Bareilly Gorakhpur Agra Fyzabad	Sr. c. 13 44 13 4 14 8 12 0 16 8 18 8 12 0 13 8 13 4		17 94	9 74 9 134 9 0 8 2 9 8 8 9 9 0 8 8	11 6	8 10 8 0 8 0 7 4 7 6 8 9 8 8	18 64 22 8 24 0 22 0 21 0 21 14	Sr. c 11 1 10 4 10 0 9 6 10 4 9 9 10 6 9 0 10 8	19 0 11 10 21 12 9 19 12 11 23 0 10	15 20 0 20 0 20 4 20 1 14 19 4	Sr.c. 349 14 8 9 2 8 9 4 0 8 8 2 8 6 6 9 11 9 7 0 8 4	

These prices, which are on the whole double the ordinary rates, indicate not only the failure of the harvest, but the shortness of the stocks existing in the Provinces.

At this juncture, when the season for even the latest sowings for the ensuing spring harvest was rapidly passing away, a most unexpected fall of rain occurred.

The retreating monsoon appeared entirely exhausted, and a period had been reached when rain even under ordinary conditions is extremely unusual in these Provinces. During the last 50 years at Cawnpore rain was recorded in November only 4 times, only 5 times in Agra, and only 11 times at Allahabad. The normal rainfall in November for the Provinces generally is absolutely inconsiderable. Yet when all hope had been abandoned, a cyclonic storm which had crossed the Dekkan from the Bay of Bengal into the Arabian sea curved north-eastwards, and the Provinces were visited by a sudden and unexpected rainfall on the 22nd and 23rd November 1896. Its effects were thus described at the time:—

"All officers are agreed that the rainfall of the last week of November was too late to materially benefit such antumn crops as were still on the ground, except arhar (a species of pulse) and sugarcane; and also too late to enable spring sowings to be completed under ordinary conditions. They are equally agreed that in whatever locality the fall exceeded one-quarter of an inch the spring crops already sown were greatly benefited, and further sowings effected over an additional area. The peculiarity of the rainfall was its uneven and capricious distribution. In the Meerut division, which, owing to the canals and the good autumn harvest, was already bevond the risks of scarcity, the fall was generally good, varying in most districts from one-quarter to four-fifths of an inch. In this division consequently the spring area will be little short of the normal. In the



general health and condition continued surprisingly good. The Inspector-General of Civil Hospitals noticed the condition of the people on the works at this time as an indication that the opening of this form of relief had not been unduly postponed. It was observed that where the newly-admitted labourers showed signs of privation, they soon gained strength and condition. The appearance of the children had not at this stage commenced to cause anxiety. Cases of emaciation were to be found in the poorhouse infirmaries, and here and there a wanderer, often from a foreign State or distant district, would arrive at the relief camp in a starved condition or be brought in by the police patrols in a dying state. Such cases, however, were rare.

It has been stated that in the earlier months a certain unsettled state of mind had been observed. It showed itself in a spirit of turbulence, in restlessness, and that inclination to wander which has been the traditional resource of a famine-stricken population. This had ceased now. The dispositions made to provide relief had convinced the people that the Government had undertaken their protection, and this conviction had inspired them with confidence. The assistance they had received in the shape of advances, while helping to this end, had enabled very many to sow their crops, to make wells for irrigating them, and so bound the cultivators to their homes. Henceforth the wanderers were stray casuals of the vagrant type or immigrants from Native States who, for some time, came in considerable numbers on our works. The popular movements were confined to those villagers who left their homes to seek employment on the nearest relief works. Many mendicants, who would not endure the restraint of poorhouse life, began to drift towards the western and northern districts where the good harvests gave them hope of finding charity still effective, and where they swelled the beggardom of the bazárs and taxed the patience as well as the resources of the charitable; but soon even this movement came to an end, and these mendicants settled down in the poorhouses. As the applicants for employment increased in number, the large public works on which they were recruited expanded and multiplied. A description of the staff and organization for carrying out these works will be found explained in detail later on. At times it was severely taxed to meet large and sudden demands made upon it. Precise instructions had been issued to all districts to prepare programmes of work, to complete the necessary plans for the selected projects, and to make arrangements for requisite staff and tools and plant. (The early order issued to the Jail Department to supply one million baskets for earth-carriers is an illustration of the magnitude of the transactions.) Famine is full of surprises, and the

policy was to make so far as possible timely provision to meet all contingencies. These preparations were pushed on everywhere and, it may be claimed, were found equal to the emergencies which arose. As an illustration of the difficulties which the Administration had to encounter, reference may again be made to South Allahabad, where towards the beginning of November distress unexpectedly assumed a very acute form, and a sudden rush of many thousand people to the relief works ensued. In a few days the gangs were organized and the works expanded for their reception, and settling down at once the hungry crowds became an effective body of controlled and organized labour, with no worse mishap than a small inefficient expenditure while the arrangements were getting into working order. This was at the outset when all was new and novel; but later on in the same district the relief workers and their dependants rose in one week from 33,000 to 83,000, the new recruits being absorbed on the existing works or other prearranged projects as fast as they presented themselves without any confusion or delay.

At this stage, it was deemed expedient to diverge from the principle of the Famine Code, which recommends that in the early stage of relief operations recourse should be widely had to small or village works and not to large works under the Public Works Department. In the Lieutenant-Governor's opinion large works under the control of trained Public Works Department officials were both more effective as tests and more susceptible of ready expansion to meet large and unforeseen demands Later on it will be seen that the smaller class of village works became a more important feature in the relief system. In those districts where distress was less acute, and it was possible to exact a heavier task and desirable to impose a severer test, the system known as "Intermediate," which has been already alluded to and which will be described in detail hereafter, was adopted in order to secure these ends, and to prevent the relief works from attracting those who could subsist without them or could find employment elsewhere.

Relief works are necessarily open to all who are willing to submit to the prescribed tests. Village relief was administered with a more cautious liberality and did not expand so rapidly, although early in December discretion was given to Commissioners to commence distribution of this home relief wherever the clear necessity arose, without waiting for a formal declaration of the existence of famine. During December this form of relief was extended to nine more districts, raising the number to twelve. From that time forward it grew steadily in extent as distress deepened and as the Circle and Sub-Divisional Officers charged with the preparation of the lists realized the full meaning of the order of Government that "in districts declared to be distressed every

village should be treated with the view of accounting for each individual resident therein, and that no case which ought to be relieved should escape notice."

In the large cities measures had early in the season been taken by the local authorities to meet such cases. Very many of the respectable poor had been reduced to want or destitution by the pressure of prices and the failure of the private or domestic charity from which they usually obtained assistance. In numerous instances impoverished parda-nashin women, who are debarred by the custom of the country from appearing in public, had been accustomed to support themselves or eke out their resources by needle-work, embroidery, and similar occupations. The general pressure on the community had deprived them of this source of income, while their social position, age or sex prevented them from seeking relief in poorhouses or on works. The employment of many artizans, especially those engaged in the production of articles of luxury, had diminished or ceased. It became necessary to devise means for the support of all these distressed classes who presented numerous cases of a nature to excite pity and compassion. To this end private charity was locally organized, subscriptions were raised of a considerable amount from private persons and local bodies, and these were largely supplemented by Government grants. In Lucknow, which contains an unusually large number of impoverished or destitute persons of good family, the Government subvention amounted to Rs. 15,000 a month. In Benares and Allahabad the Government contributed Rs. 5,000 per mensem; and in Agra Rs. 2,500. Committees were formed, chiefly of native gentlemen under the presidency of their District Officers, and Sub-Committees appointed for the different quarters, consisting of those persons who, from their local knowledge, position, and influence, were best able to ensure the economical and honest distribution of the funds, and who could find out and relieve in a private manner, and with due consideration for their feelings, the many distressing cases of destitute people whose rank or pride led them to endure slow starvation rather than openly accept charity. In the cities and large towns, ladies and gentlemen connected with various Christian Missions gave willing assistance. To those Committees the grateful acknowledgments of this Government are due for excellent services rendered in the discharge of their charitable undertakings. Later on this benevolent work was much helped by the subsidies received from the Indian Famine Charitable Relief Fund.

Prices had now ordinarily ceased to rise, but remained at a phenomenally high level and showed no signs of relaxing. Rain fell generally throughout the provinces in the Christmas week, and though it left some of the worst districts untouched and nowhere made any substantial addition to the area sown,

yet it was of great benefit to the growing crops and gave fresh confidence to the people. Still it did not affect prices. Imports went on briskly and large quantities of grain continued to find their way into the bad districts. In those tracts where distress prevailed the people had all along fully utilized the various wild products which could be used as food, and to this end, later on, the Government forests were thrown open for the gratuitous collection of edible fruit for human beings as well as fodder for cattle. Various roots, fruits, and edible grass seeds which the very poorest are accustomed to search out in their season, were this year collected by the unemployed members of families accustomed to better diet. The bramble bushes known as "ber" or "jharber" (Zizyphus jujuba) yielded an unusually large crop of its little plums, and the village children had this year to share them with their adult rivals. The young shoots of the gram vetch, always a favourite vegetable, were pulled to such an extent as to cause complaint that the outturn of the crop was seriously impaired. Aided by these adventitious resources the food supply showed no signs of exhaustion. The larger centres continued sufficiently, though perhaps not fully stocked. Here and there, in little outlying marts or village bazárs, there were apprehensions that supplies would run out. But private trade continued everywhere to meet all demands upon it, and the Government pursued steadily the policy of non-interference which gave that trade scope and confidence. In the one or two cases where the resources of private trade seemed overtaxed, the grant of assistance by Government to grain-dealers in the shape of recoverable advances met the difficulty. Wherever a relief work was opened, the petty trader at once appeared with his baskets of grain and condiments sufficient to supply all customers. This automatic provision of supplies relieved Government and its officials of much embarrassment and left them free to attend to the work of relief. The scale of wages on relief varied in direct ratio to the price of staple grains, and it was occasionally observed that the provision-dealers, taking advantage of this, combined to raise prices artificially, persuading the relief workers that their wages would be raised in proportion. Such combinations were met by encouraging larger dealers from the towns to establish branch shops on the works, and competition kept prices down to the market level.

Private trade, however, it may be said, was found to require little encouragement and less control. It wanted only security to be efficient. With famine prices prevailing graindealers in isolated positions are exposed to danger of plunder by mobs. Measures were adopted to check any such tendency among relief workers and protect the valuable agency which purveyed for them. The instructions to officers in charge of relief works provided that any case of plunder by workers

should be dealt with not as robberies or dakáities (which no doubt they technically were), requiring a lengthy procedure, but as theft, which admitted of being summarily tried and punished in the presence of the whole body of labourers. These instructions also provided for the immediate recoupment of his losses to the grain-dealer from fines imposed on all the gangs concerned. After a few cases of plunder of grain shops on relief works had been dealt with in this way, the trouble completely ceased: and so universally orderly were the relief workers that, as has already been stated, it was found unnecessary to increase the police force of the Provinces by a single constable to preserve order among them or to guard the treasure chest. Order was preserved through the people themselves.

Such were the conditions of distress and of relief which prevailed at the close of 1896. A very rapid expansion of numbers characterized the last fortnight of the year. The figures for the end of November have been given above; the opening of the new year saw 496,879 in receipt of relief. The great bulk of these were workers and their dependants, representing over four-fifths of the whole. Less than one-tenth were relieved in poorhouses and fewer still at their own homes. The area of distress now included 12 districts officially recognised as famine-stricken. Beyond them were 24 more, in which distress of a varying degree prevailed, and which were classed as still under observation. In all of these districts relief measures were in force in the shape of test works or poorhouses or village relief, or all three together.

The effects of the rainfall of November have already been fully stated. Though opportune and highly beneficial, it was not by itself sufficient to secure the crops then in the ground or being sown. The rainfall of the remaining cold weather months would have been sufficient to ensure crops which had been put out under favourable conditions. But it was inadequate for the wants of a harvest sown in a season of such deficient moisture that even the sowings were largely dependent on artificial irrigation, and all crops which were unirrigated suffered accordingly.

The Meerut, Benares, and Gorakhpur divisions came off best, and in most of the Oudh districts there was fair average rain. In all these tracts the winter rain of 1896-97 would have proved quite adequate under ordinary conditions. Elsewhere it may broadly speaking be said that the December and January rains were sufficient to secure the irrigated crops. But a general failure of rain in February and March combined with the effects of a high and continually west wind proved disastrous to unirrigated fields. The failure was most severe over the large waterless tracts south and west of the Jumna, and fell heavily on all the dry and poor soil in all parts.

The beginning of the year 1897 witnessed a steady development of the adverse influences already at work and of the measures taken to counteract them. The home resources of the people continued to grow more exhausted as each week passed, and as they failed, the numbers dependent on State relief continuously increased. On all sides there were signs that the pressure of scarcity and high prices was growing more intense and showing itself in the condition of the people. They poured upon the relief works in fresh crowds daily, they filled the poorhouses, and they swelled the lists of those gratuitously relieved at their own homes. A few figures will illustrate the rapid growth of the numbers who were thrown on Government for their support.

January opened with 410,238 people, workers and their dependants, on relief works, while 86,641 were in receipt of gratuitous relief in poorhouses or at their own homes. Week by week the numbers rose by 100,000 or 150,000 or even more. The average daily increment may be placed at 18,000. By the end of January the total on relief works had reached over a million. During February the recruitment went on at the rate of over 14,000 daily. When the accounts were made up on the 27th February, the total number on relief works was found to be 1,381,337, while 315,385 persons were in receipt of gratuitous relief in poorhouses or at their homes: the total was thus 1,696,722. That day was the flood mark of the famine.

The constant increase in the number of dependants showed that whole families were turning to the relief works for their support. In the worst tracts many villages began to present a half-deserted appearance in spite of the large expansion of village relief which tied many to their homes.

The poorhouse population rose steadily as the exhaustion of private charity drove the wandering beggars of the provinces, the waifs and strays of the bazars and highways to, all unwillingly, fall back on this form of relief. By the end of January, when the provincial total had reached nearly 60,000, this field became exhausted and thenceforth the numbers began to slowly decline. In pursuance of the policy of Government those inmates who became capable of labour were constantly drafted off to the relief works, and those unfit for labour who had any fixed home were sent to their villages and placed on the free lists there. Death, too, helped to deplete their numbers. They included many suffering from chronic maladies and many who were picked up in the last stage of emaciation by the Relief Officers and police patrols. The reluctance of the vagrant classes to accept a settled residence and a subsistence diet led many to refrain from entering the poorhouse tall starvation had induced disease. Persons of this class would often, when they recovered a little strength, evade the mild compulsion exercised to retain them, leave the poorhouse, and wander aimlessly seeking in vain to beg a living 'till brought back again in a worse condition than before.

Village relief expanded during this period with great rapidity. The circle system already described had become fully elaborated. Village by village every individual was brought under observation, and as the famine grew in intensity new cases came constantly to light. As the able-bodied were forced to seek the relief works many of those dependant on them were left without support. Among the better classes who would not accept charity publicly many pitiable cases were sought out by the assistance of their neighbours and relieved in an unobtrusive way. The number supported gratuitously at their own homes, which at the beginning of January was little over 40,000, had risen to 233,000 by the end of that month; this total including persons to whom relief was temporarily given until they should become strong enough to earn their livelihood on the relief works. During February the careful scrutiny by European officers of the work done by their native subordinates had the effect of reducing the numbers on some of the village lists; but on the whole the work was found to be well done. In only one district were any serious defects discovered. By the end of February there were over 263,000 on the lists. Experience appeared to indicate that during the season when relief works are practicable on a large scale, when the numbers in receipt of all forms of gratuitous relief exceeded one-third of the number of labourers in works, and when the numbers on village relief exceeded 3 per cent. of the population of the distressed tract, suspicion is aroused and the need for closer scrutiny suggested. This rough working rule, the product of long experience of famine administration, was found useful as a danger-signal counselling special watchfulness.

Taking all forms of relief together, the numbers dependent on Government, which were 351,093 at the end of December, had risen to 1,305,217 by the end of January and by the end of February amounted to 1,696,722.

Besides the increase of numbers the signs of the times appeared in the character of the people who sought relief. In the worst districts men and women of the cultivating or tenant classes began to come on the works. They held out as long as their resources lasted, and in order to economize their means they and their families did a much larger share of the field work than usual, and so avoided the employment of hired labour (thereby limiting the employment available for day labourers, already restricted by the shortness of the cultivated

area). But at last many had to give in, and come on the relief works. Generally, however, it may be said that the labouring and artizan classes furnished the great bulk of the relief workers and that the cultivating classes only furnished a contingent from their poorest members.

The general rain which fell in the middle of January, while of immense benefit to the growing crops, put an end for the time to artificial irrigation and cut off this source of employment for the labouring classes, bringing them in larger numbers on the State relief. During January the districts of Agra, Etáwah, Mirzapur, and Bara Banki were officially recognised as distressed. In February Azamgarh and Fatehpur were added to the black list.

By the end of February the distress which prevailed was occasionally reflected in the condition not only of individuals, but even classes, of the community. Those who from motives of pride or indolence refrained from seeking the relief works or the poorhouse till no other resource was left, the wandering mendicants and the respectable poor on whom the dearness of provisions pressed heavily-such people showed in their appearance signs of the privations they had endured. It was noticed that the new applicants for employment or relief were often in an emaciated condition and compared unfavourably with those who had been prompter in seeking State support. In the earlier stages of the famine people were deterred from seeking or accepting relief from motives which lost force as time went on. Caste reasons were potent, and instances were brought to notice where money doles had been refused or actually returned by villagers because the recipient had been threatened with expulsion from the brotherhood. Grotesque reports were current among the people unaccustomed to such widespread bounty and ever anxious to discover some hidden motive for it. Rumour had it that everyone who accepted relief was to be subjected to demoniacal influences; or sent across the sea to labour islands or to people new countries which the Sarkar had conquered; or made to apostatize; or marked down for future sacrifices to the deities who are supposed to watch over the stability of great railway bridges. Instances, too, were not wanting of the struggle between natural affection and the love of life. A starving girl refused to take relief unless an undertaking were given that when she was sent away to the strange land, her old father should be cared for while alive and decently buried when dead. As time passed these absurd beliefs and restrictions wore themselves out. The people became familiarized with the system of State relief and ceased to look for any sinister motive. In the later stages of the famine persons who had refused proffered assistance came forward of themselves to claim it. The public faith was

again tried when very large sums from the Indian Famine Charitable Relief Fund were distributed for purchase of seed grain and plough-cattle, and again fresh rumours were spread assigning strange motives for the charity. The Amír of Kabul was coming to conquer India and the British Government was anxious to arouse a popular feeling in its own favour. A rich Bombay merchant with all his kith and kin had died of plague, and Government, to whom his property had come, had decided to spend it in charity. But this time the stories gained little credence, and did not prevent the whole village populations from flocking to share the bounty of the English-speaking public.

An increase in crime, chiefly of a petty nature, indicated the pressure on classes not usually criminal. Here and there a gang robbery or an incendiary fire showed that bolder spirits were abroad, and force had to be suppressed by force. The reports from border districts of the south and west began to show that the inhabitants of adjacent Native States had felt the pinch, and, leaving their houses, were crowding on the relief works or into the poorhouses of British districts. Rewah, Gwalior, and other States started works within their borders and for a time kept down the number of immigrants. But later in the hot weather the influx became so great that special measures had to be taken to return these foreigners to their own territories before the rains broke.

Early in 1897 the wet and cold, which was unusually severe, aggravated the sufferings of the people less able than in a year of plenty to withstand such adverse influences. Measures were taken to provide shelter and warm clothing for the most necessitous on the relief works; but fever, pneumonia, and bowel-complaints became prevalent, and the result appeared in a death-rate which, though nowhere startling, was in many districts sufficiently above normal to indicate the strength of the forces against which the people and the Government were striving. Though grain continued dear, yet subsidiary products, such as potatoes and carrots, began to come on the markets everywhere in large quantities towards the end of the month and made a valuable and cheap addition to the diet of the people. The effect of the regular support afforded by relief measures began to tell on the public health, and as warmer weather came after February the condition of the people began to steadily improve. In April the death-rate had fallen in the famine districts, and in May it was below normal for the provinces as a whole, though some of the most distressed districts showed a slight excess.

Prices during this period remained uniformly high, but there was nowhere any failure of food supply. Imports continued brisk and a great deal of Burma rice was introduced into the Provinces. The total net imports, however, large as they were, would have gone but a short way towards feeding the entire Provinces. The local stocks still supplied the great bulk of the consumption, and there was a steady movement of grain towards the districts where scarcity was greatest and prices most stringent. This movement of trade will be considered more fully in the sequel; but it may be said that the market showed itself very sensitive: a favourable fall of rain would slightly cheapen grain for the moment, while the high west wind which blew for some days at the end of February materially raised prices throughout the Provinces.

The relief system in all its branches was now in thorough working order. As the demand for employment increased, the arrangements for the reception of labourers everywhere expanded. Fresh projects were matured and added to the existing programmes of relief works. Tools and plant were provided to replenish the existing stock and additional measures taken to provide sufficient supplies of copper coin and small silver to secure the punctual payment of wages. Private trade continued sufficient to provide food supplies everywhere, and it can scarcely be said that Government interference was ever necessary. In the distressed tracts every individual was brought under observation, and the village and city lists expanded to include all deserving cases. Poorhouse accommodation was where necessary increased, and the internal economy of these institutions placed on a uniform and orderly footing; the inmates themselves being employed to maintain order and perform the necessary domestic services. All Civil Officers absent on leave were recalled to duty, and when this resource was exhausted the superior staff was recruited by twenty Military officers who were employed both on the control of large relief works and in the civil relief administration, and rendered valuable services in both branches. Large additions were made to the subordinate district staff and that under the control of the Public Works Department. The village Circle Officers were doubled and trebled where occasion required. The medical staff was increased by the deputation of six European officers to special famine duty and a large staff of Assistant Surgeons, Hospital Assistants, and Compounders and Vaccinators appointed to take charge of the medical arrangements on relief works and in poorhouses.

Thus the object was secured which the Local Government had placed before itself, namely to establish a complete and expansive organization for the relief of distress which should be ready in advance of the demand and be capable of meeting at the shortest notice any contingencies which could be foreseen.

It was now clear that relief operations would be protracted through the hot weather and rains. Timely steps were therefore taken to erect shelter-houses for the staff at convenient centres where no accommodation at present existed. These temporary structures proved of great value later in the year, when camping in tents became all but intolerable.

CHAPTER VII.

The "rabi" or spring harvest of 1897: its extent and quality.
The "Zaid" or Miscellaneous Crops.

It is now time to notice the character of the spring harvest which was gathered in March and April last, and to glance at the subsidiary or intermediate crops which intervened before the rains set in last June.

The climatic conditions under which the spring crop was sown and matured have been already fully stated. The average area of spring crops in the United Provinces is 20,413,755 acres, of which 318 per cent, is irrigated and 69 2 per cent. unirrigated. This year the total area fell to 14,786,410, a loss of 271 per cent. But almost 53 per cent. of this area was irrigated, and in fact the actual area under irrigation rose by 1,305,075 acres, or 20 per cent. The entire loss was on the unirrigated lands—a circumstance which materially affects the outturn. The normal area irrigated from canals for this harvest is 1,100,000 acres. It rose this year to 1,844,000. an increase of 67 per cent. In addition 661,075 acres were irrigated from temporary wells and tanks, and represent the extraordinary efforts made by the people themselves to secure their crops. It has already been shown that this large addition to the protected area is chiefly due to the encouragement and pecuniary assistance afforded by the Government to the people in constructing temporary wells. Unfortunately, the protection afforded by this latter kind of irrigation was least in those districts which wanted it most, and where the failure in preceding harvests had been greatest. In these districts the water level is so low and the sub-soil so rocky that temporary wells could not be constructed. Ordinarily the food crops constitute 93.4 per cent. of the whole spring harvest. This year, though the sowings covered 72.4 per cent. of the normal area, the harvest yield did not exceed 60 per cent. of a normal outturn. The Meerut division came off best. Any slight decrease in the area sown was more than recovered in the enormous addition to its irrigation, which was nearly doubled. In the Agra division, as a whole, the crops were over 80 per cent. of the normal extent, the Agra district being the worst off, with only 62 per cent. In Rohilkhand the weak districts were Shahjahanpur (61:18) and Pilibhít (64 20). The other districts were able to sow a fairly full area. In the Allahabad division the fluctuations are very great. The proportions per cent. to the normal area of each district stand thus :

Cawnpore	***	85.62	Allahabad		44 36
Fatehpur	•••	66 11	Jhánsi Jalaun	•••	45.70
Bánda		27 36	Jalaun	***	29 79
Hamirpur	419	49.07			
•					

In this division, therefore, the sowings for the spring harvest were more defective than elsewhere, and the deficiency was most marked in the country lying south of the Jumna, where the distress was already most felt, and the need for a favourable season was sorest. In Jalaun the Betwa Canal added substantially to the small irrigated area. But in the other Bundelkhand districts and South Allahabad the natural difficulty of artificial irrigation, aggravated by the drought, prevented that expansion of wet cultivation which ordinarily characterizes the Doáb districts. In the four Bundelkhand districts 78 per cent. of the total cultivation remained dependent on the natural rainfall for its crops. Later in the year this want of irrigation told sadly on the crops, which were sown in the hope that the favourable winter rain would bring them to maturity.

In the Benares Division a fairly good area was secured, Mirzapur being the worst district with 68 7 per cent. of the normal extent. In the Gorakhpur division the district of Gorakhpur failed to get more than 65.7 per cent. of its normal area sown. The other districts were better off.

In Oudh the spring crops were sown in rather less than three-fourths of the usual area. The Fyzabad division came off better than Lucknow, which only sowed an average of 68 per cent. The only serious deficiency was in the unfortunate district of Hardoi, which added to its previous troubles by getting little more than half the usual extent of its spring erops down: nor was the area sown even as well secured as usual, for the facilities for irrigation were impaired by the drought, and only 37 per cent. of the usual area was watered. Indeed, throughout Oudh generally, which is destitute of canals, the irrigated area fell off in marked contrast with the rise which occurred throughout the greater part of the North-Western Provinces. In the Fyzabad division the deficiency was only 71 per cent.; in Lucknow it exceeded 17 per cent. The Kheri and Partabgarh districts alone showed any substantial increase.

The relative capacity of the two provinces—the North-Western Provinces and Oudh—to stand a drought is well illustrated by the experience of the present year. Usually Oudh has by 6 per cent. a larger proportion than the North-Western Provinces of its spring crops under irrigation. This season the conditions were reversed. While in the North-Western Provinces 56 per cent. of the crops were artificially watered, in Oudh only 43 per cent. were thus protected. The explanation lies in the extraordinary effectiveness of the Government canals in the North-Western Provinces during this drought.

In both Provinces alike the distress has been concentrated in those tracts where irrigation is most deficient.

Having thus stated the extent of the sowings, we have now to consider the outturn of the spring harvest. With favourable autumn rains the spring crops are to a surprising extent independent of winter rains. But in this year the complete failure of the autumn rains made the further rainfall a matter of much importance. In particular the late sowings effected at the end of November and beginning of December required the most favourable climatic conditions to yield successful results. The actual conditions fell short of the requirements. The character of the winter rains and their effect on the barvest in different divisions and districts were generally satisfactory, and things went well until the middle of February. The widespread rain in the Christmas week, and again at the end of January, came in time to save the staple cereals, and the crops at that time promised an average outturn in nearly all classes. But towards the end of February a high west wind set in and blew through a part of March.

Where the crops had been sown in time or had been irrigated it did little or no harm. But over the large area of late sowings and unirrigated lands it caused great injury. The backward crops on unirrigated land were over considerable areas parched up altogether and produced nothing. Where conditions were more favourable the plants then in ear were dried and the grain shrunk and lightened. A copious fall in February and March would have averted or mitigated the consequences of this untimely wind; but the rainfall of both months was meagre and below normal, and the outturn in all unirrigated lands was seriously impaired. Gram, usually the first crop sown, had to wait too long for rain, and except where irrigated gave a very poor yield. The considerable area of miscellaneous crops sown after the November and Christmas rains was largely unproductive.

Yet notwithstanding these drawbacks and losses, the spring harvest yielded an outturn very considerable in quantity and of extreme value in replenishing the depleted food supply of the Provinces. Looking at the extremely unfavourable conditions which prevailed at the seed time, and when the grain was ripening, the results proved as good as could have been expected. In the extensive irrigated area the crops were decidedly good. Wheat, which was comparatively largely sown, surpassed the highest recorded yield per acre. Barley turned out well, exceptionally well where irrigated, and was long the cheapest staple in the market. The pulses were good, particularly the Cajan pea (arhar), which in some parts of the eastern districts is said to have flowered two or even three times and borne two or even three crops. Sugarcane was unequal. But though in some districts poor and below average, it was nowhere a decided failure, and in some parts it was distinctly good.

On the whole it may be said of the spring harvest that, notwithstanding the deficiency in area and the failure on unirrigated lands, the outturn for the Province generally was above one-half, and may be fairly placed at about 60 per cent. of a full average yield. In normal years the produce of the rabi or spring food grains in the North-Western Provinces and Oudh is estimated at 7,468,700 tons. In 1897 the outturn may be estimated at 4,431,700 tons. There was thus a deficiency of 3,037,000 tons, valued at normal prices at eighteen crores of rupees (equal to twelve millions sterling at current rates of exchange). Thus the failure in the autumn and spring harvests of food grains alone cost the Provinces no less than 34½ crores of rupees (equivalent to £23,000,000 sterling).

This calculation or quantification of loss is in substantial accordance with the estimates framed before the end of 1896. Unfortunately it is necessary to repeat that the area of greatest deficiency was the area of greatest need. In Bundelkhand and the south of Allahabad the unirrigated lands yielded little, in many cases nothing at all, and this loss was all the more severely felt from the scantiness of the protected area. In Hardoi a larger proportion of cultivation was irrigated than in Bundelkhand; but the failure of crops on the unprotected lands was almost as extensive. In the uplands of Mirzapur much the same conditions prevailed. Generally speaking, the spring harvest failed most where the autumn harvest had been worst, and chiefly for the same reason. Maps which accompany this narrative show at a glance the extent and distribution of the failure of both harvests.

Besides the ordinary field crops a certain area is always devoted to garden crops. In the present year this area was rather larger than usual. To some extent this was due to the action of Government in encouraging such cultivation and assisting it by collecting and distributing seed. As already stated the imported carrot seed generally arrived too late, and it is still doubtful whether it is suited to the conditions of village culture or to the climate of these Provinces. But the country carrot seed and much of the potato seed, which were distributed in considerable quantities, proved successful. The villagers were quick to take up the idea and sowed considerable quantities of these and other fast-growing vegetables, which made a valuable addition to the food supply in the later months of the cold weather, when the spring cereals had not yet They were largely used, and they influenced the matured. Famine Code rations on relief works, which are primarily framed on the basis of the more expensive cereals and pulses.

Besides garden cultivation there are certain extra products which contribute regularly to the food of the people at certain seasons. Water-nuts (singhára) proved a short crop, as might be expected in a year of drought. But the mahua (Bassia latifolia) yielded an excellent outurn, and it

was particularly good in the Bundelkhand districts and Fatehpur, where it is an important accessory, and gave valuable and timely aid, besides affording some employment to the weaker classes of workers in collecting it. Mangoes, on the other hand, proved a general failure, except in some parts of the Meerut division.

The extra hot weather (zaid) crops were largely sown and generally turned out well. The various sorts of pumpkin and melon gave a large yield, which helped out the food supply very usefully while it lasted. In the Hardoi district advances were offered to cultivators to grow sawan (or summer rice). But throughout the greater part of the district the people are unaccustomed to this cultivation, and could not be persuaded to undertake it. In other districts, such as Bara Banki, where the tenantry were less apathetic, an unusually large area was sown with the best results. Generally speaking, the people exerted themselves manfully to obtain as large an outturn as possible of these intermediate crops, which mature during the hot weather. Where necessary, they were assisted by Government advances. The acreage under these supplementary on intermediate crops turned out 29 per cent. in excess of the normal area, and the produce was uniformly good. Besides the addition to the food supply, these crops, which require constant irrigation and tending, were useful in affording employment to a considerable number of labourers during the slack season.

CHAPTER VIII.

The hot weather and rains. Termination of the famine.

So far this narrative has been confined to the continuous development of the causes and influences which brought about the scarcity and to the establishment and expansion of the relief measures which these influences necessitated. The month of March which ushers in the Spring marks a new phase in the progress of events. The spring harvest after many vicissitudes began to reach maturity. With it the demand for field labour reopened; the food supply was replenished; and prices began to relax. In the eastern districts, where the crops ripen earliest, these effects were first apparent. Throughout the Provinces, generally, custom fixes the Holi festival as the date which marks the coming of the Spring time and the commencement of the spring This Oriental May-day is celebrated by the harvest. whole Hindu community as the occasion for friendly visits and mutual rejoicings It fell this year on the 18th March, a date which might therefore be expected to see a very marked decrease in the numbers on relief works. The expectation was not disappointed Between the 27th February and the 20th March over half a million of persons had left the works. The exodus continued uninterruptedly as the demand for harvest labour increased till the 10th April, when nearly 700,000 relief labourers had sought employment elsewhere. Even the poorhouses felt the influence, and many inmates departed to glean or beg a share in the new harvest. It was found possible also to make some temporary reduction in the numbers in receipt of outdoor relief. Altogether the total of persons supported at the expense of the State fell between 27th February and 10th April from 1,696,722 to under one million. The reduction was not spread equally over all districts. Where distress was most acute the fall was slightest: people were slow to go and quick to return. For instance in the Cawnpore district, where the pinch was not very severe and the spring crops turned out well, the number fell from 139,000 to 13,000. In Allahabad, where opposite conditions prevailed, between the same dates the number fell only from 214,000 to 192,000. In those districts, of which Bara Banki in Oudh may be quoted as an example, where the harvest was ample in quantity and quality, the famine practically ceased when the spring crops were garnered, though scarcity continued owing to the sustained high level of prices.

This change of condition necessitated some change in the policy of the relief administration. In the tracts, already suffering most severely, where a scanty harvest brought little real relief, there was nothing to be done but continue the measures already in force, keeping up works on the Famine Code system and regulating wages by the sliding scale. The entire destitution of the people forbade any contraction of State relief till material improvement might be manifest.

But elsewhere the opportunity was seized to diminish and modify relief measures as the resources of the people improved. It was a matter of the first importance that labour required to get in the harvest should not be diverted from that object, and that no one should be retained on relief works who could find subsistence or employment elsewhere. To secure this end, measures were adopted to lower wages and make the labour test more stringent and thus clear the works of all whom circumstances did not compel to work for even the subsistence wage which the Famine Code provides. The scale of wages hitherto in force displayed some signs of now becoming unnecessarily liberal. Prices of grain showed a tendency to fall as the spring crops became assured, while the large supply of vegetables and other subsidiary articles of diet lowered the cost of subsistence. Accordingly a uniform scale of wages based on a market rate of 12 seers (24th) of grain per rupee was introduced, tentatively at first, and extended in March to all districts where distress was not acute. Besides this a change of system became necessary in order to enforce a full task by applying the principle of piecework with payment by results which had been found suitable by experiment in selected localities. This system was known as "Intermediate" because it stood halfway between the ordinary contract system of public works and the system of task work under direct management prescribed by the Famine Code. The circumstances under which the Intermediate system was introduced and the results of the measure have already been referred to, and will be more fully shown in the sequel.

As the warm weather approached another serious danger threatened in parts of the country south of the Jumna. The water-supply showed signs of failing. The smaller streams dried up and wells in rocky soil began to run low. Besides the obvious inconvenience and danger of this failure it brought about conditions favourable to outbreaks of cholera. And cholera was not long in making its appearance. It first broke out with considerable violence in South Allahabad, where about 96,000 labourers had been concentrated for some time. The limited area of country in which suitable work projects and water-supply were available rendered it necessary to modify the entire arrangements then in force. In fact these conditions came into operation which have been referred to in Chapter V above as calling for the establishment of small relief works. The whole of South Allahabad was accordingly mapped out into circles, each of about 6 to 7 miles square, and a large number of minor works, each affording

accommodation for about 500 labourers, were opened, 6 to 10 such projects being located in each circle. The workpeople on the large works were broken up into bodies of 5,000 and marched to their allotted circles. Over these a further subdivision into bodies of 500 men was effected; and each such body told off to the nearest minor work. all had been in this way dispersed, the individual labourers were then shifted, so that each was brought to a work in the neighbourhood of his own village, and had the advantage of being able to return home every evening after his day's task. There were no large standing camps to serve as a nidus for disease and as the people were, first of all, set to work to clean out and deepen their village wells, a sufficient supply of good water—the only sure preventive of cholera—was secured. The whole of this reorganization, affecting 96,000 people, was completed for the infected section in a fortnight. It had been first resolved to effect it in a week; but an expected fall in the temperature checked the cholera: and so permitted of more leisurely action. This celerity was only practicable because the people were well in hand, and because the danger had been foreseen and a large number of village projects selected beforehand to admit of rapid dispersion when the occasion arose. The scheme proved effective and very popular. It had the drawback of attracting larger numbers than would have sought the works under less favourable conditions, but very liberal measures of relief were required in this tract, where distress was very acute and widespread and the resources of the people abnormally depleted. The virulent epidemic cholera disappeared with the dispersion of the large bodies. and after that time recurred only in a mild and sporadic form. The people improved rapidly in physical condition, and when the rains commenced were able to begin field work with full vigour.

Precautionary arrangements were made in the other districts to follow the South Allahabad plan should a similar necessity arise. But though cholera appeared at intervals in nearly all the distressed districts, it was found possible by careful attention to sanitary arrangements to suppress each outbreak by segregating and dividing the labourers on the infected work only. This constant warfare against cholera was an anxious and trying duty, and some of the staff, both European and native, died in discharging it.

Of the three causes which, as pointed out above, co-operated to reduce the numbers on relief works in March, two—the commencement of the spring harvest and the occurrence of the Holi festival—were temporary in their effect, and though of universal application, varied much in force according to the deficiency of the harvest and the pressure of distress. In Bundelkhand, South Allahabad, and a few other localities

the scanty crops afforded very little and very brief employment for day-labourers. They attracted away from the works little more than the poorer cultivators and their families who had attended them. The pressure of want left few in a position for merry-making. The rough popular songs which are improvised and sung at the Holi festival took colour from the conditions of the year. Some that have been preserved, instead of the usual ribald license of the season, tell of famine and of high prices and of the relief that was extended to all classes.

The third cause was the measures taken by Government in the way of lowering the scale of wages, stiffening the task, and extending the Intermediate system. These measures were not applied, or were applied in a modified form, to the acutely distressed tracts. It is natural, therefore, to find that in such parts the falling off in numbers was less marked and less sustained. In the Hamírpur district indeed the numbers never fell off at all, but continued to steadily expand through March and April.

By the 10th of April the 1,300,000 people who swarmed in the works at the close of February had fallen to under 700,000. Moreover, they were confined to the true famine districts. In the merely scarcity districts very few remained on the works. The total number in receipt of relief in all forms on the 10th April was almost exactly one million. As the harvest work became exhausted the people began steadily to flow back to the works. By the 1st May the 700,000 on works had become 935,000; the total had grown by close on a quarter of a million. The increase was confined to the famine tracts, though here and there in the region of scarcity the demand for employment on relief works began to reassert itself. The process continued steadily through May in spite of the inclemency of the weather. The hot season had now set in and pressed heavily both on the labourers and the staff who had to carry on work through the burning, heat and the fierce hot winds that often blow till far into the night. The hours of labour were adapted to the season, and shelter from the sun and wind was provided along the works where the people could seek refuge in the hours of midday when work was suspended. The strain was severe on the staff, European and native, compelled to be out at all times through this trying weather. It was observed that Europeans stood it better than the natives, many of whom broke down. The labouring population, accustomed to such conditions of life, maintained a high standard of health. In spite of occasional outbreaks of sporadic cholera the death-rate for the Provinces in both May and June was below normal. Even in the famine districts the public health was exceptionally good.

At the end of April the Lieutenant-Governor visited the districts of the Meerut Division and satisfied himself that no relief measures were required in any of them. The very limited operations which had been carried on for some months in a small hill tract of the Dehra Dún district were closed early in April, when the spring crop had matured.

In the commencement of May conferences with the local officers were held afresh by the Lieutenant-Governor at the chief centres of distress. The dispositions for the hot weather were examined, the necessary arrangements made to strengthen the staff for the trying period then before them, and a forecast was framed of the wants and claims of each district till the tension should relax with the advent of the rains. Instructions were given to avoid the commencement of projects that could not be finished in time and, as the rains approached, to concentrate labour on the works which it was desirable to complete before the season rendered earthwork impracticable. Large suspensions of the land revenue instalment, then due, were sanctioned according to the necessities of each locality after examining the proposals of the local officers and the Board of Revenue. Thus equipped and provided, the Provinces entered on the penultimate stage of the struggle.

During May the numbers steadily grew, and at the close of the month they again exceeded a million-and-a-half. Agricultural work was in abeyance, and the people dependent on daily labour for their support continued to return till the second high water mark on relief works was reached on the 29th May, when the daily attendance on work was returned at 1,157,000. Of these only 22,000 were employed in the scarcity districts where the spring harvest had brought a degree of relief denied to the hardly-pressed famine tracts.

Gratuitous relief had slightly expanded as some of the feebler people, unable to stand the strains of work in the hot season, broke down and were brought on the free lists of their villages.

The numbers on relief works during May were swollen by the advent of many immigrants from adjacent Native States Earlier in the season the presence of such foreigners on the relief works of several districts had been noticed. The numbers were not inconsiderable; yet, so long as this accession was confined to casual applicants or wanderers in search of employment or relief, no question had been raised. Relief works organized on the principles adopted in British districts had been epened in most of the principal States concerned, and the Political Officers of those States associated with the Darbár officials in their control. There was a natural tendency for persons near the border to seek the relief centres nearest to their homes, and in this way a certain number of British subjects may have also drifted into Native States. Following the principles laid down by the Famine

Commission in its report (paragraph 189), no effort at that time was made by this Government to discriminate these people or return them to the States to which they belonged. But about May it was observed that large bodies of villagers with their families were flocking to British relief works from States adjoining the Allahabad and Agra Divisions, and the numbers in some instances were so great as to seriously burden the organization on those works and to entail a heavy expense on the provincial finances. A census showed about 15,000 immigrants from Rewah on the works in South Allahabad and over 8,000 (chiefly from Gwalior) in the Jalaun district. Considerable numbers were also reported in Jhánsi, Mirzapur and Etawah. It was ascertained that relief works under the general control of British officers were still mail tained in their own territories for the reception of the inhab ants of these States concerned. The reasons assigned for the immigration were that more continuous employment, better arrangements for work, for payment of wages to labourers and their dependants and for food supply, rendered the British relief works more attractive. In one instance a large body of relief labourers marched en masse from a Native State into the Jhansi district because they had ascertained that payments there were made in standard (British) coin and not in the depreciated currency employed in their own territory.

Communications were opened with the Political Officers of the States concerned, who at once organized measures to recall the immigrants; and as a preliminary measure it was decided in concert with them to stop the recruitment of all bodies of well-nourished workpeople from across the border while providing for the relief of stray wanderers and all persons in immediate need of assistance. By June all the organized parties of foreign labourers and their families had been received over by agents deputed for the purpose and returned to their own territories where suitable arrangements had been made for their employment. Shortly after this the advent of the rains and the measures adopted to meet the change of season led those who had remained to return to their homes.

The total number on relief of all forms on the 29th May was 1,543,888. From the beginning of June the attendance on works began to decrease. For the first fortnight the fall was slight. Here and there one or two members of a family would return home to look after the repairs of their houses as customary at this season and make their other little arrangements to prepare for the burst of the monsoon. But the bulk of the labourers awaited the opening of the rains. The 12th June found 1,096,000 still on the works.

Some local thunderstorms had brought showers in May; but the first twelve days of June were practically rainless. With the 13th June, however, commenced a series of

showers in nearly every district, light at first, but persisting and increasing in a way which soon left no doubt that the welcome monsoon had stolen in. The long-suffering districts of Bundelkhand and Allahabad were the first to receive a substantial fall on the 18th and 19th, which in Bánda displayed a true monsoon character.

The results on the relief workers were quick to appear and it was evident that a great exodus from the relief works to the fields was about to set in. The crisis synchronized with the Jubilee of Her Majesty the Queen-Empress; and advantage was taken of the coincidence to send the people to their homes with a memento of that auspicious event. Accordingly the 21st and 22nd June were declared holidays, and on Saturday, the 19th June, each individual of the 963,000 people on the relief works was paid three days wages in advance, in honour of the Jubilee of the great Maháráni under whose gracious auspices the abundant relief and charity of the preceding months had been dispensed to them. It would be too much to say that every one of those myriads who on the 19th June went to their long-deserted homes, rejoicing, realized what it all meant; but many understood it: while the rest in their ignorant minds did in some vague way associate this, to them, incomprehensible generosity of the Sarkar with the Queen's name. As at the same time the amnesty for prisoners, especially for female prisoners and for those who offended under pressure of want, restored to their homes some 9,000 people, it may truly be said that a bright ray of comfort was shed on many a home.

The effects of the break of the monsoon, assisted by the measures now described, were immediate and significant. Within one week the numbers on relief works fell by over half a million: on the 19th June the numbers stood at 963,000; on the 26th June they had fallen to 449,000 and on the 3rd of July to 415,000. Here, as in March, the natural results of the reopening of field work were assisted by the measures of Government. The paramount importance of securing a large area of well-tilled crops made it necessary to clear the relief works of every one who could find employment in the fields. To this end it was resolved to extend to all districts the Intermediate system which in the less distressed or "scarcity districts" had proved so useful in emptying the works at an earlier stage; to harden the scale of wages; and to introduce the less attractive forms of labour, such as quarrying and breaking road metal which had been held in reserve for the rains.

The relief measures which had been carried on patiently and steadily for the past eight months, and in Bundelkhand for over a year, since famine had first declared itself, now bore golden fruit. The peasantry had been maintained in health and strength, and were ready, with almost unimpaired vigour and in undiminished numbers, to commence the tillage of the new crops whereon their fate depended. The resources of the Charitable Fund had been largely reserved to meet this crisis. By the splendid liberality of the English-speaking public over thirty lakhs of rupees were now distributed among the villagers to purchase seed grain and replace the plough-cattle which they had lost. This munificent charity was liberally supplemented by advances of State funds to small proprietors and cultivators of the better class. There were some apprehensions that seed grain might not be forthcoming in the parts where famine had been most prolonged. But seeing the people generally possessed of the means to pay for it, the traders quickly solved the problem of supply. Assisted and encouraged in these ways, the agricultural community turned with cheerfulness and resolution to the congenial task before them.

Had the monsoon progressed favourably, there can be little doubt that the great body of relief labourers would have melted away, and that by the middle of July only an insignificant number of the homeless and landless classes would have been found clinging to the works which had supported them so long. But the vicissitudes of the famine were not yet at an end. In the third week of June light but general showers fell for a few days in all districts. Up to this the rain had generally been sufficient for ploughing; but except in a few favoured localities not enough to generally admit sowing those staples like rice, which require abundant moisture.

But in the last week of June the rains ceased abruptly over the entire Provinces except in a few of the eastern districts, which continued for a few days to receive a fairly adequate supply. With the exception of a few scattered showers of no importance, this break continued up to the 12th July. The period was one of extreme anxiety, a dry west wind set in, and it appeared for a time that the hot weather conditions were about to reassert themselves. As the days passed without rain or even clouds, reports began to come in from nearly all districts that agricultural operations were suspended, that the seedling crops were drying up, or that seed had failed to germinate. Artificial irrigation became necessary in upland places. At this crisis many of the tanks which had been excavated as relief works during the past seasons and had partly filled with the first showers yielded their first fruits by affording water for the thirsty fields around them. Prices, which showed a tendency to fall when the June rains appeared favourable, began to rise again. A feeling of apprehension and disquietude commenced to spread among the people, who feared lest the failure of the previous year might be repeated in this monsoon. They began to return to the abandoned relief works and re-enter the poorhouses. By the 10th July the number on works had risen to

536.000, and the total number of persons in receipt of relief of all forms was over 1,000,000. It became necessary to arrest the new dispositions that had been, ordered to meet the change of season and to revert to the Code system . of works in districts where the more stringent Intermediate system had recently been introduced. The Meerut Division, protected by its canals, and the Benares Division, which received the remnants of a current that brought copious rain to the neighbouring province of Bengal, alone maintained their position of safety. Elsewhere the tension had become extreme, and there were even gloomy estimates of muschief done which could not be retrieved. The situation had become so critical that the Lieutenant-Governor undertook another tour of the Provinces, to concert measures to meet this fresh emergency. He had scarcely started when, on the 12th July, the longexpected rain descended over practically the entire country.

Ploughing and sowing were resumed with great activity, and it was soon ascertained that but little substantial harm had been done. A few more days of drought would have proved ruinous; but the rain revived the crops, and in the few fields where seeds or seedlings had perished they were soon replaced by fresh sowings. It may in anticipation be here said that the area sown was 33 per cent. above the normal: and that practically the crops have been uniformly excellent.

Prices began to fall, and the 31st July saw a distinct drop in the rates for coarser grains, though the finer staples remained as dear as before.

During the tour which the Lieutenant-Governor made in July the whole relief arrangements were again reconsidered, at the chief centres of distress, in conference with the local officers. Such readjustments as the circumstances of time and place called for were sanctioned, and a plan laid down for winding up the relief system when the early autumn crops should have ripened. To this plan, further reference will be presently made. here it may be conveniently mentioned that the rearrangement of relief works which had been arrested in some localities when the break of the rains set in was again undertaken, and before the end of July the Code system of works had ceased in all districts. Some difficulty was experienced in devising works suitable for unskilled labour which could be carried on during the rainy season. Tank excavation and indeed earthwork generally became impossible, and consequently all the great relief works had to be closed. In the country south of the Jumna, where stone abounds, quarries were opened and numbers of labourers were employed in quarrying and breaking road metal. In other districts where the nodules of impure limestone known as "kankar" are largely used for road metal the work of digging, cleaning, and stacking them was started. Gangs were also employed in finishing

off unmetalled road embankments which had been constructed during the previous months and in repairing embankments which had settled when soaked with rain. In a few localities relief labour was utilized in levelling and clearing the sites of old forts or habitations either for sanitary purposes or to render them culturable and to obtain the bricks which have a marketable value. In these ways sufficient employment was found for those who still required it. But the demand for employment soon ceased. The labouring population flocked back to the fields where they found more congenial and profitable employment than that which the relief works offered. By the end of July the number of persons supported on relief works had fallen to under 100,000, and the bulk of them were confined to five or six districts. This number sank steadily through August as field work expanded; early in September it was only about 15,000, and on the 15th September the last of the relief works was closed.

The further progress of the rains may be briefly told. They continued in an unusually favourable manner. There was sufficient open weather in late July and early August to admit the sowing of all crops and sufficient showers to bring them on Later on the heavy rain was favourable to the transplatation and growth of the late rice-a very important crop. In some of the Bundelkhand tracts this heavy and continuous rain checked weeding, and thereby curtailed the employment of agricultural labour-a difficulty which involved the extension of gratuitous relief for the time: there were some complaints, as might be expected, of injury to crops in lowlying lands, and floods did some mischief in river valleys. But taken as a whole the Provinces could not have wished for more favourable conditions than prevailed. At the end of August and beginning of September, when fine weather was needed for the ripening and harvesting of the early staples, the continuous rain was succeeded by sunny and showery weather which brought into the threshing-floors a harvest that left little to be desired,

The penultimate stage of the Famine had been reached by the closure of the great relief works. But the measure deprived of their support a large number of persons who had been maintained on the works as dependants. Besides these a certain proportion of inefficient labourers who, driven from the works by the rain, returned home with their families were unable for a time to get work in the fields, and the high prices which still prevailed left the earners little margin for the support of others. For these people a period of severe pressure ensued until the expansion of agricultural employment and the maturity of the early crops brought relaxation. An increase of the gratuitous village relief at this period was therefore necessary: it had been anticipated, and measures to meet the temporary strain were in readiness.

This strain on the gratuitous relief system, which began in June with the advent of the monsoon, continued to increase till, on the 24th July, it reached its maximum with 424,000 persons on outdoor relief and 45,000 inmates in poorhouses. After that date the numbers began to fall off in the less distressed districts as prospects of a good harvest became brighter: and employment in weeding and other agricultural occupations became available. But in the true famine regions, where the largest numbers were in receipt of relief, the pressure was slower to relax and the fall in numbers was more gradual. The end of August still saw 400,000 people on outdoor relief and 34,000 people in poorhouses.

The time had now come to put in force the plan for gradually winding up relief measures, which, as stated above, had been predetermined at the conferences of July. This plan will be best understood by quoting in this place the Government orders in which it was prescribed for general adoption. The orders, which bear date 4th of August, are as follow:—

"The Lieutenant-Governor and Chief Commissioner has now visited the chief centres of distress in the Provinces, and has concerted with the Divisional and District Officers the measures which have been rendered necessary by the advent of the rains, and the policy which should be pursued, and the further measures which should be adopted, to finally wind up relief operations, provided the rains continue favourable for the remainder of the season. The results of these deliberations are embodied in the notes of conferences which accompany this letter.

"In many districts relief works have been already closed, and in all they have been substantially reduced. The remaining works have been concentrated at as small a number of centres as possible, and works, such as stone and kankar quarrying which can be carried on during the rains, have been, so far as possible, substituted for the various forms of earthwork hitherto in operation. The Famine Code system of works has been everywhere abandoned, and the Intermediate system with full tasks introduced and the rates fixed at either the 12-seer or the 14-seer scale. Field work of various sorts has opened up with the progress of the rains, and in nearly every locality affords occupation for all the labour seeking employment. It is anticipated that all the works will be gradually deserted, and that few will remain open by the end of August. The early kharif crops may be expected to be ripe and coming into consumption by the 15th September, and the last of these Department of Public Works relief works must be finally closed on that date, and the labourers, if any remain, left to find employment in the usual pursuits which will then be open to them.

"Poorhouses will remain open for the present for the reception of wanderers and of persons unable to labour. As already directed, poorhouse unmates who are able to work should be required to execute a suitable task, and work should be devised and provided for this purpose.

"From the end of August or beginning of September steps should be taken to draft back from the poorhouses to their homes, and bring on the village lists, all persons unable to support themselves who have any fixed residence or whose village of origin can be discovered, excepting only those hospital patients who from illness are unable to travel. This operation should be completed by the 15th or 20th September, and after that further admissions to the poorhouses should be refused, except in cases of obvious necessity. When the village relief is finally closed in any district, any remaining inmates of poorhouses must be paid off with a fortnight's subsistence dole, and be warned that they must thenceforth provide for themselves as they have been accustomed to do. Infirmary patients must be removed to the permanent district hospital or permanent poorhouse where such institution exists. The poorhouse will then be finally closed and the establishment dismissed.

"It remains to deal with persons in receipt of gratuitous relief in villages and cities (Chapters V and X, Famine Code). Commencing from the end of August, the lists should be carefully revised and superfluous names weeded out. These operations should be supervised, where possible, by European agency: at the same time, if prices have fallen, the rates may be reduced under orders of the Commissioner of the division.

"The next step will be to strike off whole villages from the relief lists. This process will begin when the early kharif is ripe and the new grain in the market. In some places this will take place early in September; in some places by the middle of that month; in some places perhaps later. In a few localities where the early kharif is inconsiderable and the harvest consists almost exclusively of the later staples, it may be necessary in special cases to retain villages on the lists as late as the middle of October. The decision of such cases is left to the discretion of Commissioners.

"Those tracts will be selected for reduction first where the kharif is earliest, but it should be complete for every village with an early kharif crop by the end of September. If in any village, owing to backwardness of crops or great preponderance of the later kharif, it is necessary to postpone final closure, the list can be maintained till the middle of October. But if the rains progress favourably, such cases should be exceptional. As each village is struck off, the recipients then on the list should receive a week's or a fortnight's dole at the Collector's discretion, and be warned that they must thenceforth provide for themselves. In this way the relief will carry on the recipients in some cases to the beginning of October, in most cases to the middle of that month, and in exceptional instances to the commencement of November. As the villages are struck off, relief measures will be finally wound up and the special establishments reduced.

"In cities relief, as a rule, will be closed at the end of September, the recipients then on the lists being paid off with a week's or a fortnight's dole. City relief committees should be given timely information.

"The arrangements above described will, His Honor believes, provide for the gradual reduction, and the final closure of relief in the manner calculated to cause the least suffering or inconvenience to those now dependent on State support, and I am to request that they may everywhere be followed, unless sanction is sought for any modification in any special case.

"It is impossible to expect that where people have for a considerable period been accustomed to receive gratuitous support at their own homes or in poorhouses, the discontinuance of such support can be effected without inconvenience and a certain degree of hardship to those who are again thrown on their own resources. The longer the relief is continued the greater this difficulty will become, and the Lieutenant-Governor and Chief Commissioner believes that in the end the most humane as well as the wisest course is to terminate at the earliest possible moment, after the ripening of the kharif harvest, of which the promise is now excellent,

arrangements which cannot possibly be maintained in permanence. There is much danger that the continuance of State relief, after the imperative necessity for it had ceased, would tend to weaken the custom and the immemorial duty of private and domestic charity which has been up to the present the resource of the destitute and helpless. It is of the first importance that no impediment should be placed in the way of the return of the community to its old customs and habits of life. Any unnecessary postponement would in the end prove an injury to the classes it aimed at assisting.

"In this way the Lieutenant-Governor trusts that relief operations of every kind may be brought to a close on the 15th October at latest."

It will be perceived that the plan of operations is based on the fact that in the various portions of these Provinces the harvest is not simultaneous, that it is earlier in some regions than in others, and that some food grains ripen sooner than others do. The earliest kharif grains ripen in the end of August or beginning of September, and it was therefore agreed upon that from the beginning of September the village gratuitous relief lists should be subjected to a scrutiny, and all those who obviously could be left to their own resources or the care of their friends should be then struck off. But it was recognised that the work would be indefinitely prolonged if this procedure were alone to be relied on and individuals always dealt with. It was essential that this kind of relief, which is demoralizing where not absolutely necessary, should be terminated at the earliest safe moment.

The ripening of the crops in the village gave an assurance that the safe moment had arrived and that no evil would result from dealing with the village as a whole. It was therefore decided to operate on the whole village and to strike off the lists all recipients of gratuitous relief in a village in which the crops had matured. This procedure was adopted from the middle of September progressively in all these villages where the early crops were extensive and successful. In these villages where there was a preponderance of the kharif food grains, which ripen later, relief was prolonged. But in no case was it found necessary to retain the system of gratuitous village relief beyond the 15th of October.

And a further precaution was taken by way of additional assurance that the transition from the State relief to the ordinary habits of village life should not cause distress. This consisted, as stated in the orders, in giving to all recipients of gratuitous outdoor relief a dole sufficient for a week or oftener a fortnight's subsistence. In this way the dependence of the past gradually merged in the freedom of the future.

In regard to poorhouse relief, the object was, as will have been noticed, to assimilate the method of winding it up with the method of winding up village relief. In this way complications were avoided, while every poorhouse inmate was

placed in his or her village of origin and, as far as possible, in the position he or she occupied 12 months before.

The favourable progress of the harvest rendered it possible to adhere to this scheme with reasonable closeness. By the middle of September the numbers on the Government outdoor relief lists had fallen to about 231,000, while the poorhouse population had fallen to under 11,000, and many of these institutions had been closed. By the 1st October the corresponding numbers were 115,587 and 5,017. On the 20th October the Lieutenant-Governor was able to inform His Excellency the Vicercy that the relief operations had been practically closed on the 15th idem, by the distribution of the authorized parting dole, and that there remained as a charge on the Government only a few hundred infirmary patients and about 2,000 orphans. The very paucity of the number of orphans and waifs and strays in comparison with the magnitude of the year's operations, is in itself testimony to the success of the relief arrangements.

From the beginning it was expected that orphans would come on the hands of Government, and accordingly in December 1896 the following orders were issued prescribing the method of dealing with them:—

"In the poorhouse at the headquarters of each district a section should be reserved for orphans, male children being kept separate from female children if over 10 years of age. A respectable matron should be appointed to the charge of the orphanage on suitable pay, and should live in the orphanage. Inquiries for the parents or friends of the children should be instituted immediately the children are found to be deserted and if the parents or friends are discovered, the children should be made over to them, the parents or friends being helped, if indigent, under the general system of the Famine Code. If the friends or parents are not discovered, and especially if there is reason to think that the parents are dead, the children may be disposed of in accordance with the provisions of article 130 of the Famine Code. Special care should be taken that in no instance is a Hindu child made over to a Muhammadan, or a Muhammadan child to a Hindu. Special care should also be taken with regard to female children, so that the danger of their getting into the hands of prostitutes may be avoided. The person to whom a child is thus made over should be placed under obligation to account for the child at any time until the child attains the age of 18 years Before the children are thus given over for adoption, a sufficiently long period should be allowed to elapse, within which search will be made for the children's parents or friends. The search should include a careful local inquiry in the village which the children may name as their home, and every obtainable clue must be followed up. In each case a written proceeding, stating the steps taken to trace the parents or friends, should be drawn up and recorded before a child is given over for adoption.

"A certain number of children will probably remain over in the orphanages after efforts to find the parents or relatives have been exhausted and after the option of adoption has been allowed to their co-religionists. The balance thus remaining over may be treated under article 131 of the Famine Code, the orphanages being chosen by reason of their known reputation as homes for deserted children."

The number of children now remaining in the district orphanages is 1,668. No doubt most of these are true orphans, but some have probably been merely deserted by their parents. Efforts have been, and are still being, made to trace out their parents or friends. These efforts have in some cases been rewarded with success, and the children have been restored to their homes. In other cases there has not been success. If further efforts are unsuccessful, and if it is found impossible to induce respectable people of the same caste and religion, over whom the Local Government can exercise supervision, to adopt the children, they will be placed in orphanages controlled by the Bishops of the various Christian communities or in respectable orphanages controlled by substantial native Societies and Committees. It is understood that the Provincial Branch of the Indian Charitable Relief Fund intends to endow the various orphanages for the maintenance and education of these children. In any case this Government intends to exercise a control and supervision over the orphanages, in the interests of the children, until they attain an age when they may be trusted to take care of themselves.

CHAPTER IX.

Operations of the Department of Public Works.

ARTICLE 17 of the Provincial Famine Code declares it to be "the duty of the Chief Engineer in charge of the Public Works Department, Buildings and Roads Branch, in communication with Commissioners and District authorities, to maintain for each division and district, under the sanction of Government, a programme of all relief works, and to see that for each work there is a project in such detail as is suitable to the class of the work." The occurrence of famine in Bundelkhand in 1896 had drawn the attention of Government to the necessity of bringing this programme up to date; and measures to this end had already been taken when the imminence of a second and much greater famine accentrated the necessity for special despatch in completing them. Accordingly, on the 21st September, the attention of the officers concerned was drawn to the urgent necessity for completing the revision of the programme of works, and expanding it for all threatened districts. On the 2nd October minute and detailed instructions were issued to secure complete preparation upon all points necessary for the efficient management of relief works. probable scale of establishment required for each district and charge was indicated, and sanction given to the recruitment of additional overseers, work agents, and cashiers. A beginning was made in providing tools and plant, and arrangements for expanding the establishment of administrative officers and providing an adequate medical staff were matured. With a view to assisting officers unaccustomed to famine work, the system of relief management followed in Bundelkhand in the previous months was summarized for general information in a Resolution recorded by the Lieutenant-Governor on the 20th October, the points which the experience of that period had shown to be of the greatest importance being brought to prominent notice. The most important and permanently interesting of these were-

- I.—The paramount importance of the principle that preparations should be well in advance of pressure. Preparations were not to be confined merely to the selection of projects, but should include all arrangements for beginning active work at a moment's notice when the time for action should have arrived.
- II.—The necessity of enforcing task work in tracts most acutely distressed.

- III.—The desirability of selecting works with a long lead, as it was anticipated that the number of carriers would be much in excess of the proportionate number of able-bodied diggers.
- IV.—The enforcement of precautions against fraud.
- V.—The necessity of special sanitary arrangements, and, in particular, of a pure supply of drinking water.
- VI.—The provision of a large supply of copper coin for payment of wages.

The revision of the programmes of relief works was completed by the end of October 1896, and these programmes were subsequently considered and approved at the conferences which the Lieutenant-Governor held during his first tour in November. They provided employment for 277,650,000 persons for one day or for a daily average of about one million persons for nine months in all districts of the North-Western Provinces and Oudh, except the Meerut and Kumaun Divisions. In those districts in which it transpired at the conferences that the impending famine promised to be exceptionally severe, steps were taken to prepare additional projects as a precautionary measure. In some localities it was difficult to arrange for sufficiently large works, and in other localities there sometimes was a serious deficiency of drinking watersupply, which, besides adding substantially to the cost of the work, rendered it undesirable to assemble large bodies of people there. Otherwise there was no difficulty in finding suitable projects of work.

Subject to the control of the Commissioner of the division in all non-professional matters within his jurisdiction and of the District Collector within his lesser sphere of authority, the burden of carrying on the relief works fell on the ordinary staff of the Buildings and Roads Branch of the Provincial Public Works Department. It is desirable, therefore, to state here very briefly how this Branch is organized. The organization being local rather than provincial, the territorial unit of administration is the district. Each district has its District Engineer, who may belong either to the superior Departmental or to the Upper Subordinate establishment. But whatever his Departmental status may be, his functions are the same: he renders his accounts, not to the Examiner of Public Works Accounts, but to the Divisional Engineer, and he is, within the limits of the budget estimates and according to his experience, allowed considerable freedom of action, though always under the control in all non-professional matters of the Collector-Magistrate of the District and the District Board. On the 1st of Outober there were, excluding the Kamaun and Meerut divisions, in which the scarcity was not severe enough to call for relief works, 20 District Engineers

and 20 District Surveyors employed in the North-Western Provinces and Oudh; and of these 40 officers, one-half were Europeans and one-half Natives of India.

For purposes of fiscal and general administration the districts are, it has already been said, grouped into divisions: the Public Works system follows this grouping. Each fiscal division forms also a Public Works divisional charge under an Executive Engineer, with the exception of the Allahabad division, which, being very extensive, is divided into two charges, designated respectively the 1st and the 2nd Allahabad divisions. The 2nd Allahabad division comprises Bundelkhand, in which the famine both in 1896 and 1897 was most severe. The Divisional Engineer, who is subordinate to, and maintains direct communication with, the Superintending Engineer on professional points and the Commissioner of the Division on general administrative and financial business, is the responsible executive officer by whom the District Engineers are controlled; and all accounts are compiled and submitted to the Examiner of accounts. Finally, the various Commissionerships are grouped into three Public Works Circles as follows :--

Agra	Division		<u>)</u>
Meerut	ditto		} 1st Circle.
Rohilkhand	ditto	` • • •	ر
Lucknow	dıtto	***	****
Fyzabad	ditto	•••	}2nd Circle.
Kumaun	ditto	•••)
Allahabad	ditto	***	···)
Benares	ditto	***	}3rd Circle.
Gorakhpur	ditto	***)

Over each of these circles there is a Superintending Engineer, to whom the Divisional Engineers are subordinate. These Superintending Engineers have no concern with the preparation or submission of accounts, but are solely directing and inspecting officers. It may, the Lieutenant-Governor thinks, be questioned whether, for ordinary administrative purposes, this chain of authority and subordination is not too expensive; but for the purpose of famine administration, which imposes an intense strain, the organization proved by no means too strong.

Indeed, it was found necessary to divide the 3rd Circle into two, the famine relief works in the Allahabad fiscal division being placed under Mr. C. G. Palmer as Superintendent of Relief Works, while the relief works in the Benares and Gorakhpur fiscal divisions, together with all ordinary works in the circle, remained under the Superintending Engineer.

It may here be remarked that ordinary works, so far as not deferred owing to financial pressure, were carried on as usual during the famine. In addition to the Divisional and District Officers, there were in the famine districts when preparation for relief works began 26 Upper and 77 Lower Subordinates; but many of these—the former especially—were required for ordinary works. As this staff, which was not more than sufficient for ordinary times, was altogether inadequate to meet the pressure which threatened, the necessary steps to strengthen it were taken early in October, by the recruitment on special conditions from outside the Government establishments, of 33 Visiting Inspectors and 652 work agents (who answered to Upper and Lower Subordinates). There was at the time of the greatest pressure considerable difficulty in obtaining efficient men of these classes in sufficient numbers; but, owing to the energy and good-will with which the controlling officers worked, the difficulties were overcome.

The non-commissioned grades, so to speak, of the Public Works Department were sufficiently strengthened and recruited in the way now mentioned; but the highly important work remained of strengthening the Commissioned and controlling ranks, whereby the interests of the State on the one hand and of the recipients of relief on the other could alone be adequately safeguarded. The Irrigation Branch could spare only two officers, and the Lieutenant-Governor in this emergency resolved to ask the Government of India for the services of military officers to assist the departmental officers in the control and management of relief works Eventually, through the good offices of His Excellency the Commander-in-Chief of the Forces, the services of 8 officers of Royal Engineers and 12 Staff Corps officers were obtained. Instructions were issued for the guidance of these officers, their chief duty being to ascertain and note all deviations from rules and orders, to correct all such deviations on the spot and at once, and to assure themselves, at each inspection of the relief works under their supervision, that no more money was being spent than was necessary, that the expenditure was being properly accounted for, that relief was being adequately administered, and works conducted in a proper, orderly, and methodical manner Latterly, they were placed in actual charge of a portion of the district When so employed all reports and returns, except those in regard to purely account matters, were submitted to them by "officers in charge," and so far as regards the management and organization of the relief works, they to a large extent took the place of the District Engineer, who was thus relieved of much correspondence. Of the value of the services of the military officers the Lieutenant-Governor cannot speak too highly. The efficient management of these relief charges, through all difficulties of season and sickness, was greatly due to them. They soon grasped the situation, which must have been entirely novel to most of them, adapted themselves to the circumstances.

and in activity, zeal, watchfulness of the interests of the Government, and humanity towards the people left nothing to be desired. The Lieutenant-Governor desires to acknowledge the great obligation under which they have placed this Government.

At an early date special provision was made for the punctual preparation of the accounts. The Government of India, responding to an appeal from this Government, deputed some senior officers for the purpose, and aid was also procured from the Irrigation Branch of the Public Works Department. Extra clerks were engaged, and the divisional accounts were gradually brought up to a fair standard of punctuality. To illustrate the extraordinary pressure thrown on the accounting staff, it may be mentioned that the ordinary yearly expenditure in the Buildings and Roads Branch of the Public Works Department in the North-Western Provinces and Oudh on works and repairs is about 39 lakhs of rupees, whilst between October 1896 and September 1897 over 134 lakhs were expended on famine works, exclusive of tools and plant and establishment.

From the beginning and subject to the paramount duty of saving life the chief objects aimed at by the Executive officers were, first, the exaction of a fair task; and secondly, the securing of the punctual payment of the wages earned. A suitable return for the wages paid was invariably insisted on unless the recipient was altogether unfit to labour. A task, light at first in the case of weak persons, was prescribed and, after warnings, enforced by a system of fines first on the digger and, if that did not prove to be effectual, on the carriers also. Recourse might also be had to a penal ration of cooked food or, in extreme cases of recusancy or malingering, to removal to a workhouse. In regard to payments of wages it was found, during the Bundelkhand famine of 1896, that payments twice or three times a week to the labourers were more convenient for all concerned than daily payments. But in 1897 daily payments were preferred. The reason is that in 1896 the numbers on relief were comparatively few: they worked nearer their homes; the graindealers knew them better; and their credit was not altogether exhausted. Moreover in 1896 a large staff of trained Public Works subordinates was available for employment within a limited area: and upon the honesty of this staff reliance could be placed. In 1897 the permanent departmental staff went but a small way to supply the necessary control: temporary men were engaged regarding whose probity there was not the same assurance: the vastly increased numbers on relief prevented the grain-dealers from giving credit to individuals whom they did not know. All these circumstances combined to render daily payments necessary, and daily payments therefore were generally made from an early stage of the operations.

This system of daily payment to individuals involved an elaborate organization, which is provided for in the rules prescribed by this Government and known as the rules of the 5th December. The general principle was to divide the workers into charges containing about 5,000 persons exclusive of dependants. At the head of each charge was a charge officer of the standing of "naib tahsildar." The "officer in charge" was responsible for the general management of the charge, including admission and classification of relief workers, payment of wages, supply of food, care of dependants, hospital arrangements, and submission of accounts and returns. Under him were at least two clerks, one of whom was capable of keeping accounts in English. There were also two work agents (sub-overseers), employed on professional matters, such as laying out and measuring work. In organizing the "charge" individuals were grouped into a "gang." When the pressure of distress increased, and whole families came on the works, the families were kept together and ten or more families made a "gang." This gang was the unit with which the Department dealt, and it consisted (exclusive of dependants) of from 50 to 60 persons, 15 of whom were ordinarily diggers and the remainder carriers. At the head of each gang was a "mate," when possible chosen from the gang. The character of the mates procurable varied in different parts of the Provinces. In the 1st and 2nd Circles and in the Gorakhpur division they were usually men able to read and write, and the presence of "literate" mates lay at the bottom of the slight variation which prevailed between the system of charge control there elaborated, and the system which was maintained in the Allahabad division, where the literate mates were few and hard to find. When literate "mates" were not procurable reliance was placed on gang clerks or muharrirs (called also jamadars), of whom there were from five to ten for a charge.

Various improvements in the system of control and payment were devised from time to time and as experience was gained by actual practice: among these may be here noticed an improvement in the muster-rolls introduced by Colonel R. R. Pulford, C.I.E., R. E., Superintending Engineer of the 2nd or Oudh Circle, whereby the names and residence of each individual worker, the quantity of work done by him or by the gang to which he belonged, and the daily payments made to him can be ascertained at a glance, and fraud at once detected and exposed. This system leaves but little to be desired, if, indeed, it can be improved upon.

In organizing and conducting large relief works particular attention was paid to the provision of medical comforts, sanitation, and a pure water-supply. A field hospital was attached to every large work or charge, under the control of a medical subordinate, whose duty it was to attend to all urgent cases of illness, supervise the sanitary arrangements, and submit periodic reports on the health of the workpeople. The provision of a supply of pure drinking water was everywhere put in the fore-front of the organization, as a matter of supreme importance. It is now a well-established fact that nothing is so productive of disease on works-especially of cholera-as impure drinking water. The first step, therefore, taken in opening a relief work was to take possession of the wells in the neighbourhood (or to make wells if none existed), to disinfect and purify them, and thenceforward to control the drawing and distribution of the water. To this end a special staff organized with reference to the caste and religious susceptibilities of the people was employed, and a plentiful supply of water-carts or water-vessels was procured. Water for drinking purposes was distributed at fixed places selected with the view to the convenience of the workers, the supply being furnished by these water-carts or vessels.

In this connexion the following remarks by Mr. Palmer, Superintending Engineer, Allahabad Circle, are of much interest:—

"The experience of the present famine and latter part of the preceding one affords the highest presumptive evidence of the value of permanganate of potassium as a disinfectant in cholera. During April 1896 we were attacked by cholera, and could not in any way get rid of it except by marching the people from place to place till it died out. We felt all the time that we were not combating it, but simply running away till it was tired out. Under this difficulty I consulted Professor Hankin of Agra on the subject, and he immediately furnished me with instructions on the use of permanganate of potassium, which were issued to all on the 18th April 1896; but the permanganate did not come to hand till May. In the succeeding epidemic of May 1896 the permanganate was used somewhat perfunctorily and without any understanding of its importance, or much belief in its efficacy, on the part of the Officers-in-charge and the Visiting Inspectors: its use, however, extended. The disinfection of wells is strongly insisted on in the Public Works Department Rules issued in December 1896, and enforced general attention to the point. The first March epidemic in Allahabad was earlier than expected and caught us in the midst of a struggle with other difficulties, and without a large enough supply of the drug at hand. A supply of 1,700 bs. of permanganate was at once ordered (ready made up in 51b. boxes of twoounce packets) and obtained with difficulty: meanwhile the epidemic raged in just the same ungovernable way as last year. In April we got the drug well distributed at all points and the disinfection of wells going on everywhere, apparently contaminated or not. After this there was no more mere blind running away from cholera, but we were able to fight it, and we did so with early success in every case excepting the attack in Hamírpur. All officers on the relief works got to thoroughly believe in the efficacy of the drug, and much attention was given to its use. Many zamindárs asked for packets of it for use in wells which were not near our works, and many others asked us to disinfect their wells for them. Under the name of lal dawas this drug is now familiar in

every hamlet of the Bundelkhand districts and is largely believed in. It has been often shown how impossible it is to ensure disinfection, very picturesquely shown by Professor Hankin in many cases; but there is no reasonable doubt that in permanganate of potassium we have a most valuable ally in combating these baneful choleraic epidemics. Altogether we used up about 1,950 lbs. of the drug; and the small practical point of having it ready made up in two-ounce packets, packed 40 in a tin box, was found to be of the greatest assistance in facilitating its use. The simple directions now are, to go on putting in half a packet at a time till the water retains a faint pink colour for four hours; and to repeat the dose every week, preferably on a Sunday."

As the Intermediate system of relief works to which already reference has been made more than once forms a new and important feature of famine relief administration, it is desirable at this point to describe the circumstances under which it was devised and the causes which led to its early adoption in districts not suffering from very acute distress and on the commencement of the rains in all the remaining districts.

In the shape originally adopted, work under the Intermediate system was distributed among piece-workers or gangers, who were, in effect, petty contractors paying the labourers fixed wages and themselves remunerated by rates which allowed sufficient margin for their own labour and expenses. The works were, in fact, conducted on the ordinary system of Public Works with the small substituted for the large contractors, and provision made for securing the employment and fair remuneration for labourers requiring relief. Though possessing certain advantages, this early system was found to fail in one particular. The ganger, or middleman, had a direct object in employing only the most efficient labour, and in practice it was found impossible to always prevent the exclusion of weakly or inefficient workers who could not render a reasonably full task. The persons excluded were generally those who stood most in need of relief. Those who least needed assistance were able to earn much more than a subsistence wage, while those who most required it were sometimes unable to earn anything.

A modification was therefore introduced at first in a tentative form, in certain localities, by which the middleman was excluded and the work given out direct to the labourers by the official staff, who also measured up the work done and distributed the payment. This arrangement put an end to the complaints which existed against the system in its first form,

The objects aimed at in the modified form of Intermediate works were—

 to exclude from relief works those who could find employment elsewhere or were not dependent on such works for their subsistence;

- (2) to get rid of so many of the dependants and useless workers as were a source of danger and demoralization, and whose friends, included in the preceding category, were able to support them;
- (3) to secure a better outturn of work for the money expended,

The first object was gained by the imposition of a more stringent labour test and by the principle of payment by results, subject to a maximum wage. Special attention is invited to this matter of a maximum wage. At page 130, Volume III, of the Report of the Indian Famine Commission, a doubt is expressed whether it was possible to obviate the objection raised to the system of piece-work labour in that it permitted a practised or professional workman to earn more than need be allowed him as relief. The experience now gained shows that the objection can be obviated by the imposition of a maximum wage combined with careful maintenance and check of muster-rolls. The maximum wage may be regulated with reference to the individual labourer or to the family.

The limitation on possible earnings, while securing this first object, tended also to prevent competition with private employment or ordinary Public Works.

It may be added that the Intermediate system, as worked by this Government, though imposing a maximum wage limit, does not include any provision for the payment of a minimum wage irrespective of task. This minimum wage is prejudicial to economy and discipline; it cannot, indeed, be dispensed with when famine is acute. But it should never be permitted except in connexion with the task and gang system prescribed by the Code: and even then should be qualified by the enforcement of the penal ration or removal to the poorhouse in case of malingerers.

The second object was furthered by permitting the able-bodied members of a family to earn enough to support their dependants as well as themselves. And here it may be noted that work was so regulated on week days, as to permit the labourers to earn so much extra during those days, as would support them and their dependants, without work, on Sundays.

On the third object noted above no explanatory remarks are called for; it is self-explanatory.

Further experience of the working of this Intermediate system led to two modifications of the scheme as first defined. Families coming on the works brought young children who were unfit for labour, but could not be separated from their relatives. It was observed in some localities that the condition of such children was bad, owing to neglect or indifference on the part of their parents. This phenomenon was not

confined to Intermediate works or due to any defect of system. It was first observed on the Famine Code works, where the children received a money dole sufficient for their support. It was even noticed in the case of children for whose maintenance the parents had gratuitously received similar money doles at their own homes. One of the unhappy effects of this protracted scarcity has been to weaken the ties of domestic duty and parental affection, and to lead parents to consume themselves the relief provided for their children who were not required to work. Where this state of affairs existed. the plan was adopted first on Code works of supplying young children with cooked food instead of a money dole. On Intermediate works, where the necessity arose, discretion was given (and often acted on) to Divisional Officers to authorize distribution of cooked food to young children and to add one pice to supplement the diet of nursing mothers. This was no doubt a departure from the original principle; but as these children could not be removed from their parents and placed in poorhouses or on village lists, there was no alternative but to either acquiesce in their maltreatment or to provide them with a daily meal.

It was further discovered that the standard task originally laid down, though suited for persons of ordinary physique, pressed hardly on persons who were infirm or in reduced condition. When such persons were employed to any substantial extent with effective workers, the outturn of work and the carnings of the whole party were reduced—a result which pressed unfairly on those who had themselves rendered a full task. Permission was consequently given to form these weaklings into separate gangs and prescribe a reduced task for them. No other change in the system was found necessary, though occasionally the proportion of carriers to diggers was exceeded where it became necessary to find employment for a disproportionate number of applicants of the former class.

Though the Intermediate system was undoubtedly effectual in keeping down the numbers on relief works, yet it is not possible to quantify the exact reduction attributable to that cause alone. The reopening of field labour had caused many to leave the works before the Intermediate system was introduced, and the same cause continued to operate after its introduction. At the same time there are instances of works being abandoned and not resumed as soon as the system of payment by results was enforced. The information before. Government showed that numbers left to seek other employment who would have remained under the Code system, and that many more were deterred by the same consideration from returning after the completion of the rabi harvest. Persons, for instance, who were content to resort to works in the neighbourhood of their homes and earn a subsistence wage by a

few hours' labour would not undertake piecework. which required a fair day's work for a fair wage.

It may be observed that districts under the Intermediate system have kept wonderfully free from cholera during the summer. The outbreaks have been few and mild. Among the large numbers on Code works in the very distressed districts the cases of epidemic cholera have been more numerous, persistent, and fatal. The cause is to be found in the better physique of the people in the districts in which the Intermediate system prevailed, in the absence of the weak and sickly "dependants," and consequently in the less crowded state of the works, which rendered easier the preservation of the water-supply from pollution.

Generally it may be said that this Intermediate system was not suitable for districts where the distress was most acute. In such tracts it was necessary to arrange works which would provide a moderate fixed task and a bare subsistence wage for each applicant. The piecework system was unsuited for such conditions. The Intermediate system was accordingly restricted to those districts where distress was less severe and less extended. These comprised all districts, except the four Bundelkhand districts, South Allahabad, and Hardoi. Only in the case of a small portion of Unao, bordering on Hardoi, was it found desirable to revert again to the Code system in those districts in which it was abandoned.

It is necessary now to revert to the sequence of events. Early in December the general orders already mentioned as the outcome of experience gained in the Bundelkhand famine were supplemented by the issue of more detailed instructions, which, though based generally on the Famine Code, differed from it in the method of computing wages, in simplifying the classification of workers, and in the methods of enforcing task work. These instructions (for the basis of which the Lieu-

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I —Establish-	IX —Organi-
ment.	sation of relief la-
IITools and	bour.
baskets.	X -The task;
lii —Funds	setting out work,
and supply of com IV.—Draking	and getting it done,
IV.—Drinking	XI -Wages.
water	XIL-Reports
VFood	and accounts in
VI.—Field hos-	the field
pitala.	XIII.— Checking
VII -Butting	work, numbers,
VIII —Conserv-	and payments.

tenant-Governor was indebted to Mr. Palmer, Superintending Engineer, Allahabad Division) took the shape of rules, divided into sections, which, as the headings noted in the margin will show, dealt with the management of relief works in detail. These

rules include instructions drawn up by the Government Bacteriologist and Chemical Examiner, for the purification and disinfection of wells as a means of checking epidemics of cholera. They include also a ready reckoner for the calculation of wages. These rules as issued have, it is believed, been adopted in some other Provinces as the basis of the Public Works relief organization there.

It was from the first recognised that these rules, based as they were chiefly on experience acquired in part of one Province, would be liable to modification in order to suit the diverse conditions of other parts of the North-Western Provinces and Oudh. It was accordingly laid down that while certain general principles of universal application which the rules embodied should not be altered without the express sanction of Government, yet that a reasonable discretion was allowed to executive officers on the spot in adapting the rules on other matters to particular or local requirements. Although through the famine there was no hesitation in adapting the rules to circumstances as they changed, owing to the advent of the spring harvest, the change in the season, outbreaks of cholera or other circumstances, still the only substantial deviations of importance introduced, consisted in the method of payment and in an improved form of gang register to which reference has already been made.

But while the Government thus gave a very large measure of discretion to the officers on the spot, it insisted on the submission of immediate information as to what had been and was being done. The District Engineer, so soon as he had compiled the return (Form III, Famine Code) which he is required to forward to the Collector weekly, submitted a note directly to the Chief Engineer detailing the number of persons employed, the expenditure incurred, the work done, the rate of wages paid, the number of works open, and other particulars. An abstract of this information for the whole province, together with the notes themselves, was submitted weekly to the Lieutenant-Governor by the Chief Engineer personally, and instructions taken in regard to any matters which appeared to require attention. Where a doubtful point required explanation, the District Engineer was addressed direct, usually by telegram, and in other cases the Superintending or Divisional Engineer was addressed. This procedure saved much time; because as the Superintending or Divisional Engineers were constantly moving, any periodical returns requiring their intervention would probably, in the ordinary course, have reached Government many days after the District Engineer's notes were actually received. A further, and a very great, advantage was the diminution in office work, no periodical returns of this nature being necessary from Divisional or Superintending Engineers. The tendency as the famine increased in intensity was to insist on these notes being more and more full and complete, thus enabling the Government to judge whether the pressure at the time was being adequately met, whether one district or division could spare assistance for another, whether sufficient provision was being made for the future, and above all whether the expenditure was being kept within reasonable limits.

The preparatory measures already described were completed by the 5th of December, well in advance of

the pressure which followed. They were devised to meet the exigencies of a famine which it was foreseen would be severe, but the extent and duration of which was necessarily uncertain. The Government in its famine policy had three aims. The first aim was to ensure that all destitute persons should be relieved: the second that they should be compelled to do all the work of which they were capable, partly as a test of their requiring relief, and partly to obtain value for expenditure incurred: the third aim was the strict limitation of the relief administered or the expenditure incurred to the amount necessary to save life. There were two main tests of distress-a high task, and a low subsistence wage combined with a distance test. In the districts which had not suffered in the preceding year high tasks were enforced. In those acutely distressed districts which had passed through a famine in the preceding spring and summer the condition of the people was so low that a high task could not be performed, and here, at first, reliance was placed on the subsistence wage combined with the distance test. In other words, people had not only to complete the task entitling them to the subsistence wage, but they had to show that they were really in need of relief by seeking it at some distance from their homes. Later on, after the rabi or spring harvest had replenished grain stocks to some extent, the "Intermediate system" of works, which has been explained, was introduced and had the effect of a fairly high task very rigidly enforced. But at all times and under both systems the task exacted was all that could be obtained in the conditions under which it was necessary to grant relief. The high proportion which carriers (women and children) would bear to diggers was foreseen in the rules, but in judging the Public Works system of famine relief during 1897 on the basis of the quantity of earthwork executed per unit and its cost, it must not be forgotten that a substantial part of the Provinces had passed through a severe famine in 1896: that the condition of the population then was very enfeebled: that during the rabi harvest, and to a lesser extent from that time up to the close of the relief works, the people, especially the diggers employed on relief works, consisted largely of the old and infirm, those capable of doing a full or more than a full day's work having found employment elsewhere in harvesting, where they could earn more than a subsistence wage. While food grain was selling for less than 10 seers (20lbs.) per rupee, the maximum wage was seven pice for a digger or 13 anna. When the price of food grain fell to 12 seers (24lbs.) per rupee, the maximum wage was lowered to 14 anna per day, while adult carriers got 11 anna and children proportionately less. No wage in excess of that admissible under the rules was ever permitted. So that persons in good physical condition, who could earn

more than a bare subsistence wage elsewhere, found in the relief works no attraction. It was only when a whole family came and worked together that a fraction over the bare subsistence wage could be earned by the group.

Whilst every endeavour was made to select for execution only works of a permanent character and of distinct public utility, those works or portions of works which could not be carried out by relief labour were deliberately left undone. For instance, where unmetalled roads were madeand they were the class of work which were most generally carried out-no bridges were built. In order to render these roads completely useful, bridges will, no doubt, be necessary; but the Lieutenant-Governor declined to permit funds provided by the Imperial Government for famine relief to be expended on work for skilled labourers, who were not distressed and who could find their ordinary employment elsewhere. The works carried out are therefore less complete than they would have been had the principle restricting employment to persons really distressed been less scrupulously followed But so well has the work been done that in response to inquiries made recently as to the sum necessary to repair the damages caused by the late heavy rains to these famine roads, estimates for no more than Rs. 130,488 have been sanctioned. This gives an average of something more than Rs. 39 a mile. In order that the famine roads may be permanently useful, they must be bridged, and estimates for bridges are now being prepared. The bridges will be constructed from provincial or district funds.

The works carried out, with the exception of some canal works, were mostly roads, tanks, and wells with a few miscellaneous works. The great Sarda Canal project, which was first suggested as the backbone of relief work in Oudh, was after careful inquiry both in the office and in the field not undertaken. It was found that this great project called for more mature consideration than could, in the throes of the present emergency, be given to it. It seemed to involve engineering difficulties as well as a danger of waterlogging the country, in which the water level was found by extensive experiments to be much nearer the surface than had been supposed. Moreover, the opposition of the landholders and the vast expenditure the work would necessitate rendered it impossible to undertake it as a famine measure without delay or further consideration.

The only railways on which work was executed were the extension of the Oudh and Robilkhand and the Bengal and North-Western Railways, which had been in progress before the famine set in. The reasons why no fresh railway projects were undertaken were these As stated in Article 18 of the

North-Western Provinces Famine Code, railways are, as a rule. unsuitable as famine relief works, owing to the very small percentage of the cost which is spent on unskilled labour. The most suitable works for relief purposes are unmetalled roads, tank, canal, and drainage works; it is only after these are exhausted or when it is clear they will not suffice to afford all the employment necessary that railways, in which about four-fifths of the expenditure does not serve relief purposes, (1) Ghanabad Moradabad, should be undertaken. The Government (2) Shikobabad-Farukha of India, having regard to these consideraabad (3) Agra-Delhi chord tions, enumerated four railways, marginally noted, on which work might perhaps becommenced, and authorized this Government to make arrangements with the Bengal and North-Western Railway Company to commence one or more of the several extensions or branches of that system which had been previously proposed. But with one exception no progress could be made with these projects. The alignment of the Agra-Delhi chord line was sodoubtful that work on it could not be undertaken during the famine, while the Government of India eventually found themselves unable to sanction the commencement of the Gháziabad-Moradabad or Shikohabad-Mainpuri-Farukhabadi line. The Hardwar-Dehra line was began; but this railway does not pass through famine districts.

In regard to the extensions of the Bengal and North-Western Railway, the construction of the Azamgarh-Shahganji connection was sanctioned; but work could not be begun before the rains had set in. It was intended to carry out the Gorakh-pur-Captainganj-Gandak Railway by famine relief agency, the Directors of the Bengal and North-Western Railway Company agreeing to eventually take over the line. But the surveys were not ready, while in the Gorakhpur district the otherworks in the programme were found more than adequate for the emergency.

Certain projects for light railways or tramways were also considered, but as the proposed alignments passed through regions which required no relief works, the projects were not pressed.

In Chapter II of this narrative it is stated that except in Banda, where a few quarry works remained open in August 1896, all Department of Public Works relief works in Bundelkhand had been closed by the middle of the preceding month of July. These quarry works continued during August to attract a few labourers, but it will be convenient to regard these insignificant relief operations as falling within the period of the local famine of 1896, and to date the commencement of the general famine relief operations from October 1st. If this be done, the progress of relief operations controlled:

by the Department of Public Works during the general famine may conveniently be divided into four periods —

- I.—From the 1st October to the 30th November 1896, which was largely a time of preparation, though by the end of November nine districts had been declared to be distressed and regular relief or test works under Public Works control were in progress in 11 districts.
- II.—From the 1st December 1896 to the end of February 1897, when works were expanding in all districts, the culminating point being the last week in February.
- III.—From the 1st March to 15th April, during which famine works were in active progress, though the numbers on relief works were, compared to the second period, much diminished, owing to the harvest operations in progress and to the general introduction of the modified Intermediate system in districts where distress was not most acute.
- IV.—From the 15th April to the 30th June, when relief operations again expanded, owing to the completion of the harvesting, and to the continued pressure of prices which, owing to causes already noticed, had not fallen to any marked extent.
- V.—From the 1st July till the 15th September, when operations became gradually contracted and when only selected works, such as kankar collection and stone quarrying, could, owing to the rains, be carried on. All famine relief works under the Public Works Department were closed on the 15th September.

The numbers of persons on relief works under the control of the Public Works Department were as follows on the last Saturday in each month:—

	Famine Districts		Scarcity Districts				
Monte.	Workers	Depend- ants.	Total	Workers	Depend- ants.	Total.	GRAND TOTAL
October 1896. November "December "December 1897 February 1897 March "April "March "June "J	25,546 89,453 195,685 727,134 1,005,303 607,840 671,676 869,243 339,386 76,509 19,737 6,266	4,719 20,867 52,114 180,345 358,954 144,822 115,569 180,790 71,295 14,778 4,058 1,002	80,264 110,320 247,799 907,479 1,259,257 752,162 787,239 1,050,033 410,629 91,287 28,796 7,268	44 468 12,228 41,035 58,821 4,466 1,841 11,636 6,168 1,224 Nel Nel	1,642 3,404 7,872 1,023 986 Nil Nel	44 470 13,865 44,439 66,693 4,465 1,841 12,659 7,152 1,224 Nil N.l	30,308 110,790 261,664 951,918 1,336,950 756,627 783,080 1,062,692 417,775 92,511 23,795 7,268

The largest number employed on the same day was 1,064,124 workers and 261,826 dependants, or a total of 1,825,950, more than nine-tenths of the dependants being children under seven years of age. The largest number employed on any one day not being necessarily the same day was as shown below. The figures are given with the object of indicating the greatest pressure in each circle:—

 1st Carcle
 ...
 94,154

 2nd Circle
 ...
 451,000

 3rd Circle
 ...
 143,471

 3rd Additional Circle
 ...
 777,016

The first period of the famine was mainly preparatory; but at the end of November the following nine districts had become distressed: Allahabad, Hamírpur. Bánda, Jhánsi, Jalaun, Jaunpur, Rae Bareli, Sitapur, and Hardoi, while several other districts were under observation. In the 3rd Additional Circle, in which over one-half of the persons on relief works in the Province were employed. the Public Works permanent staff was familiar with the system to be followed, having learnt the lesson in Bundelkhand in the previous spring and summer: and there was no difficulty there in commencing works wherever and whenever required. The tools and plant which had been procured for the famine in the earlier part of the year were more than ample for the present requirements. In other districts the staff generally had not had the advantage of previous experience; but they were, so far as possible, leavened with experienced men, they soon settled down to the work, and no difficulty was found in providing work as required, especially as in the beginning the influx of distressed people was gradual. Afterwards the advent of people to the works was more difficult to deal with, being marked by rushes, numbering many thousands, at one time and place To provide a sufficient staff for such conditions the plan was adopted of appointing subordinates as supernumeraries to charges in operation, in order to enable them to acquire the requisite experience. Having been taught, they were drafted for employment at all points of pressure.

The second period of the famine, 1st of December 1896 to the end of February 1897, was that in which the greatest strain was felt by the Public Works Department. The number of distressed districts rose to 19 and the number of persons on relief works increased daily, corresponding additions being from time to time made to the subordinate staff. The greatest difficulty was experienced in connection with the sudden rushes of large number of distressed persons to works in particular districts and parts of districts, to which allusion has already been made. For example, in the Allahabad district there was a rush of nearly 60,000 people in a few days. This caused an intense strain, the nature of which may be judged from

the following passage from the report of Mr. Palmer, Superintending Engineer of the Allahabad Circle:—

"The organization had to register these vast numbers of people; form them into gangs and parties; find and keep them in work; keep them going with tools and baskets; measure their work; pay them daily; draw and distribute their drinking water, and disinfect every well they approached; continuously force them to observe the simplest rules of sanitation; provide a number of them with shelter; run up field hospitals; attend to their wants and shift them to new ground in epidemics; and, finally, to bury or burn the dead. They were in such vast numbers, and so large a proportion had temporarily broken with their village life, that it was necessary to look after them in every detail. In addition to these duties a large proportion of the children had to be fed; and at one time over 40,000 children were receiving two cooked meals a day, prepared and distributed at 283 different places scattered over an area of over 15,000 square miles."

Still the system proved stronger than the strain upon it?

To control the vast multitude (which, as already stated, reached 1,325,950 people in the end of February), to direct the professional and general management of the works, to regulate payments, and to supervise the administration of gratuitous relief to dependants and the maintenance of sanitary precautions, the staff, including officers of the rank of Upper Subordinates, consisted of 136 officers, departmental and military, classed as follows:—

Chief Engineer	•••	•••	• • •	1,
Superintending Engineers		•••	•••	4
Divisional Engineers	•••	•••	•••	8
District and Assistant Engin	neers	•••	•••	44
Military Officers lent by the	Comn	ander-in-Chief	•••	20
Upper Subordinates		***	•••	26
Visiting Inspectors	•••	•••	•••	33
•				
		Total		136

The subordinate agency when at its greatest strength consisted of the following officers who worked under the controlling staff mentioned above:—

- 77 Lower subordinates.
- 652 Work agents (answering to Lower subordinates).
- 274 Náib tabsíldárs (Officers-in-charge).
- 104 Ditto (not Officers-in-charge).
- 142 Hospital assistants or compounders.

The smallness of this controlling staff is noteworthy. It will appear later on that the cost of establishment was only Rs. 3,77,844, or less than 3 per cent. on the amount of wages paid.

The period, 1st March to 15th April 1897, marking the continuance of the spring harvest, exhibited a diminution in the numbers of persons on the works in all districts except in some of the Allahabad division; and in most districts the decrease was permanent. The chief incidents of this period were the dispersal of the relief workers in the Allahabad

district into small charges of 500 to 700 persons, owing to the cholera epidemic, which has already been referred to, and the introduction of the "Intermediate system" of works into all districts except Bundelkband, Allahabad, and Hardoi.

The period between the 15th April and the advent of the rains in June was marked by a vast increase in the numbers on relief works. The employment afforded by the spring harvest ceased towards the end of April: and people who were dependent on labour for their subsistence, and who had saved but little from employment in gathering a very short harvest, flocked back to the works. The pressure on the establishment was renewed, and in the end of May nearly reached the pitch it had attained in the end of February But this period produced no new developments calling for adaptations or adjustments of system or rules: the events were repetitions of previous experience; although reproduced under infinitely more trying circumstances of climate and general health.

Towards the end of May it became necessary to provide for the advent of the rains, and on the 27th May general orders were issued by Government touching the principles which were to be observed when the rains commenced. With the object of reducing all inducements to persons to remain on relief works after the rains had commenced, instructions were issued to stiffen rates and increase tasks when labour in the fields once more became practicable.

The rains began in the third week of June and produced an immediate effect on the number of labourers, which, in anticipation of the advent of the monsoon, had previously shown a tendency to fall. On the 19th June the number of labourers and dependants was 942,000 in round numbers; on the 26th June the number had fallen to 417,775 Owing to the unfortunate suspension of the monsoon rains during the first fortnight of July, to which reference has already been made, the numbers rose again, and on the 10th July stood at 465,161; but on the re-establishment of the monsoon about 12th July the numbers again rapidly fell: so that by the end of July they stood at 92.511, and it was possible to close the departmental relief works in 19 out of the 36 districts which were distressed or under observation. About the same time it was found possible to calculate the wage rate in the most distressed districts on the basis of a price current of 12 seers of food grain per rupee instead of 10 seers as previously, and to reduce the staff materially.

During the period from the 1st of August to the 15th September works remained open in 17 districts, and consisted mainly of kankar collection and stone quarrying, the number on the last Saturday of August being 23,795 and on the 15th of September 7,268 persons. After the Lieutenant-Governor had visited the distressed divisions in July, orders were issued

to close all works on the 15th of September, which were duly carried out.

It was at one time stated, though not originally in connection with these Provinces, that relief works attracted labourers from railway works. In the North-Western Pro-

(1) Bahraich. (4) Gházipur. (2) Ballia. (5) Gonda (3) Benares (6) Gorakhpur. (7) Azamgarh. vinces and Oudh railway works were during the prevalence of the famine in progress in the districts marginally noted. In the

first four districts named no relief works of any description were undertaken during the famine In the three remaining districts the maximum number of persons-men, women, and children-employed at any time on relief works never exceeded 46,000 out of a population of 51 millions, and were usually very much below this figure. Obviously these figures could in no case lend much support to a charge of competition with private or other enterprise: and a minute examination of the facts shows that they lend no support whatever. The Gorakhpur district, of the three, furnished the greatest number (33,000) of relief labourers; while none of these were employed in the vicinity of the railway works. In Azamgarh, so long as railway works were in progress, special care was taken not to open relief works in their vicinity, and the Railway Resident Engineer, at the height of the pressure (in May) admitted that, as a matter of fact, no labourers had been attracted from railway to relief works. In Gonda the numbers on relief works were always insignificant. If private employers failed to obtain all the labour they wanted, the reason was that the rate of wages they offered failed to follow the great rise in the prices of food. If any railway in these Provinces experienced a similar difficulty, the difficulty was due to the competition of other railways. Ordinary labourers could not get a subsistence on the works at the normal rates paid by the Railway employers operating in the North-Western Provinces and Oudh; though, as a prominent Railway Manager said, the Luniah (professional labourer) could earn a subsistence "at extra good lift and lead rates." The result was that the ordinary labourer was not attracted to the railway works, while there was an unusually large emigration of the professional class in October and November, long before relief works were started, to the Assam-Bengal Railway. The contract rates in famine districts for earthwork on railways should have been increased if the railway desired to command the labour market; but this increase was not made. The rate paid on relief works in Gorakhpur from the end of March was Re. 1-14-0 per thousand cubic feet, or three annas per one hundred cubic feet only. As in that district 100 cubic feet was the ordinary daily task of a working party of three individuals who were not allowed to execute more than 125 cubic feet in one day as a

maximum, it is obvious that the party could earn no more than three annas and nine pies between them As gratuitous relief to dependants on the works was not then allowed, it is obvious that with grain at 10 to 12 seers the rupee no more than a bare subsistence could be earned on relief works, and that there could be no competition for labourers between relief and railway works.

The fact is that the numbers of persons employed on relief works in districts where railway works were in progress were comparatively insignificant. Of those so employed, only a small proportion (less than one-sixth) could in any case have earned on railway works a living wage; while the proportion of the sixth who might have conceivably been employed on railways had, whilst working on relief works, to be content with a wage of three annas and nine pies per day per family, usually consisting of five people. It is repeated that in such circumstances there could have been no competition with private employers.

The expenditure on the works carried out under the circumstances and on the system described in the preceding paragraphs in connexion with the general famine from 1st October 1896 up to the close of the Departmental relief operations on 15th September 1897 was as follows:—

				Rs.
Works, including	wages o	f relief labor	irers,	
cost of work esta	blish me r	it and expend	uture	
on contingencies		^		1,16,77,295
Graturtous relief-	•			
I —To dependants				8,27,038
II.—To relief		rs for allowa	nces on	-,,
		ays when lab		
suspended		•	***	9,62,968
Establishment	•••	***	•••	
		• •	***	3,77,844
Tools and Plant	•••	•••	••	6,04,230
		Total	•••	1,44,49,375

The following figures show the expenditure in each circle, and permit an opinion to be formed of the relative pressure of the distress in each:—

				$\mathbf{R}\mathbf{s}.$
First Circle		•••		7,32,949
Second Circle	***	***	•••	31,80,213
Third Circle	***			12,18,503
Third Additional Circle				93.17.710

The total number of persons relieved, reduced to units

Men 46,754,828 Women 59,019,687 Working children 89,266,996 Dependants, mostly children under seven years 84,703,442	supported for one day, was 179,744,948 or a daily average of nearly one million for six
Total 179,744,948	months The gross cost per person relieved was therefore 1 anna

3.4 pies per head, no credit being taken for the value of

the work done or the value of tools and plant, a large part of which will be gradually sold, and some recoveries thereby effected.

In calculating out the average daily wage paid, a deduction must be made from the total sum paid under the head of works on account of expenditure on contingencies, and the cost of work establishment. The average daily wage resulting falls at 13.3 pies per head or Rs. 2-1-3 per mensem.

The average cost of the gratuitous relief to dependants emerges at 4.5 pies per head per day, or 11 snnas 3 pies per mensem.

Attention has already been called to the exceptionally low proportion which the cost of establishment bears to the total expenditure. This is due to the policy which this Government steadily pursued of working almost entirely with Native agency, and trusting to precise rules, constant supervision, and exact procedure controlled by European officers for the maintenance of fair dealing and strict discipline.

The works, which may all be classed as "Major," comprise 3,274 miles of road constructed or remodelled—a mileage which is more than three times the distance of Calcutta from Bombay. In addition 1,463 reservoirs (some very large) and tanks were constructed or excavated, and these also may be regarded as major works, the tanks having been constructed in groups. Moreover many useful miscellaneous works were completed which are enumerated in the Superintending Engineers' Reports printed in the appendices to this narrative. The roads constructed or raised were, as a rule, either feeder roads to railways or roads which it had been some years previously determined to construct or improve as part of a general scheme for developing the inter-district communications of the North-Western Provinces and Oudh. They should be all regarded as of a permanent nature and of distinct public utility. The reservoirs constructed, and the tanks deepened or otherwise improved will in all cases be of use, and in some cases of great value, to the community. They must also be regarded as permanent improvements of their kind, in some cases of general and in all others of local utility. In Bundelkhand and Allahabad, where this class of work has been most extensively carried out, tanks are especially valuable, being there extensively used for purposes of irrigation. In all cases the reservoirs and tanks are an important addition to the district resources, not only as being useful for irrigation and watering cattle, but also as tending to keep up the waterlevel in the village wells, which are usually not far from the tank. In both Allahabad and 'the Bundelkhand districts there is in the hot weather a greater or less deficiency in the water-supply, so that works tending to its improvement were very desirable.

The quantity of work carried out is shown in the following figured statement:—

	1st Circle.	2nd Circle. Brd Circle.		Additional ard Circle.	Total.	
	Cubic feet	Cabie feet.	Cubic feet.	Cubic feet.	Cubic feet.	
1. Earthwork în roads, 2. Ditto in reservoirs, tanks and canals	177,851,471 525,220	410,263,143 57,048,612	125,367,894 81,056,569	340,561,599 440,868,046	1,058,564,107 579,488,447	
S. Stone, broken, in some cases also sar- ried.	Nil	Nel	164,213	1,550,000	1,714,218	
4. Gravel exeavated .	Nıt.	Na.	18,152	1,875,000	1,898,152	
5. Limestone nodules collected	409,999	209,956	912,780	Nel.	1,538,785	
6. Bricks excavated from old Forts, &c	Nel.	729,807	Nel	Nil.	729,307	

The total quantity of work done is therefore, reducing the heavy stone and gravel work to the denomination of earthwork, about 1,680 millions of cubic feet. Having regard to the number of labourers exhibited in the penultimate page, the outturn of work done by each group of one digger and three carriers (Sundays and non-working days being excluded) would be 52 cubic feet daily. If it be borne in mind that this average includes persons engaged on sanitary, conservancy, and miscellaneous duties, that 28 per cent. of the workers were children, and that the diggers as well as the earriers were generally of poor physique, this outturn will not appear inadequate.

In reviewing famine expenditure estimates are usually given of the cost which would probably have been incurred in executing, by ordinary labour in an ordinary or non-scarcity year, the work actually done during the famine year. Into all such estimates considerable uncertainty must enter because much of the work done in relief of famine is never undertaken or done in ordinary years by the same classes of people, or in the same quantities, or at the same season of the year, or under similar conditions of exposure to inclemencies of climate or the attacks of disease. As the Superintending Engineer of the 3rd Additional Circle says in his report—

"The work ordinarily done by the Public Works Department is comparatively small in quantity and is done by the temporarily surplus labour population during the season suitable for most effective digging or else when labour is otherwise unemployed: and the ordinary Public Works Department's rates are based on these conditions. If earthwork were required in large quantities—in quantities even remotely approaching those we are dealing with—to be carried out throughout the hot weather, it would be impossible to get it done for the usual Public Works rates. I doubt whether any reasonable addition to the ordinary rates would enable us to get this quantity of work done in an ordinary year in these districts. But putting that saide it is certain that a rate of not less than Rs. 4 per 1,000 cubic feet would have to be given for the work, and probably that rate would not get any large proportion of the work completed."

Having regard to these considerations the Chief Engineer (with whom this Government agrees) is of opinion that the following statement exhibits with reasonable fairness the

cost at which the work actually done during the famine might be done in an ordinary or non-famine year:—

	1st Circle.	2nd Circle	8rd Circle	Additional 3rd Circle	Total.	
Estimated cost of work if carried out by ordinary labour in an ordinary or non-famine year.	Ra 5,30,000	*Rs. 15,20,000	Rs 7,50,000	Rs. 40,00,000	Rs 68,20,000	

The extra cost of the work done which should be charged to famine as expenditure on relief proper and on sanitary precautions is, therefore, about 48 lakhs of rupees. The value of the work done has therefore been 59 per cent. of the total expenditure incurred, while if the cost of the special sanitary precautions taken on the works be deducted, the percentage will exceed 62 per cent.

The circumstances of the various parts of the North-Western Provinces and Oudh vary so much that figures giving for the Provinces as a whole a general average of the quantity of work done per head or the cost per 1,000 cubic feet must be of little value. But the averages for each Public Works circle are more instructive. They are exhibited in the following statement which gives the cost per 1,000 cubic feet of earthwork calculated on the total expenditure of $116\frac{3}{4}$ lakhs under the head "Works":—

•	1st C	1st Circle		2nd Circle	3rd Circle	Additional 3rd Circle.
•	Rs	a	р.	Rs. a p	Rs. s. p	Rs. a. p.
Bate per 1,000 cubic feet of earth- work, dressing included, Famine Code system.	3	9	5	627	5 12 5	9 2 5
Rate per 1,000 cubic feet of earth- work, dressing included, Inter- mediate system	3	5	5	8 18 11	402	5 14 8

The comparatively high scale of rates in the additional 3rd Circle is accounted for by the very reduced condition of the Bundelkhand peasantry who had passed through a serious famine in 1896, and by the circumstance that the black cotton soil of that region when baked with the sun resists the pick or shovel almost as stone does.

In conclusion, it may be mentioned here that neither the accounts prescribed in the Famine Code nor the ordinary Public Works accounts give the information which is necessary for statistical purposes, and that one important administrative lesson clearly taught by the late famine is the necessity of determining, in the first instance, what information is necessary for statistical or other purposes, and so arranging the initial accounts that the heads of expenditure and details of numbers of persons employed shall be separated in such a manner as to permit the information wanted being readily obtained. This will be provided for in the new edition of the Famine Code which is now being prepared in the light of the experience of the last two years.

CHAPTER X.

Relief measures carried out by District Officers and Private
Agencies. The Indian Charitable Relief Fund.

SECTION I .- Minor Relief Works.

THE foregoing chapter describes in necessary detail the system of large relief works carried out under the control of the Public Works Department. But in addition, and subsidiary to these large projects under purely professional management, many small works of various classes controlled by the District Officer and his staff were also undertaken for the relief of distress. These latter works were generally known as village works, being specially intended for the relief of certain classes of the agricultural population in the vicinity of their villages. Such projects are chiefly, if not exclusively, useful to the people of the neighbourhood where they are undertaken, and they serve local rather than general public interests. The excavation of minor village tanks, the construction of small embankments, the improvements of village communications, and the removal of insanitary defects in the village site, are their chief purposes.

The Famine Code contemplates that these smaller works should be utilized in the early days of scarcity. But during the late famine, for reasons already stated, it was not found expedient to adhere to this principle. Large works under the control of trained officers of the Public Works Department were found both more effective as tests and more capable of ready expansion to meet the large and unforeseen demands which characterized the early stages of the famine. Village works, on the other hand, were found more suitable in the advanced season of the year, when the water-supply runs short, when the collection of great numbers of workers in one place is attended with danger of epidemic disease, and when it is desirable to find employment close to their homes for persons who, for one reason or another, are unable to join the large relief camps. It was for these reasons, for example, that the Public Works Department abandoned the great relief works in the Allahabad district in favour of groups of smaller undertakings.

But it is not with village works managed by the Department of Public Works that we are concerned in this chapter; but with village works controlled by District Officers without Departmental intervention. A programme of such projects was held in readiness in every district from the beginning, and a few works of the class were begun at an early stage here and there, in the affected districts, either to meet special or local urgency, or—an important reason—to test the sufficiency of the arrangements which would be required

later; but as a rule the works were carried out after the famine had fully declared itself.

For reasons both of administration and economy, it was the policy of Government to associate, as far as possible, the local landholders in the management of these village projects. The experience gained in the Bundelkhand Famine, described in Chapter II of this narrative, showed this policy to be advantageous. Accordingly in 1897 landed proprietors were encouraged and invited to contribute towards the expenditure, as well as to participate in the management, of works by which they themselves and their tenantry would be benefited. To secure such co-operation grants of money free of interest, but partly recoverable within two years, were made to landlords for carrying out village relief works calculated to improve the agricultural condition, the water-supply, and the general. sanitation of their villages Rules were drawn up (which will be found in the Appendix volume) to regulate these partly recoverable advances and the works to be constructed from them.

The dominant principle guiding the selection of these works was that they should be suitable for the employment of relief labour, while being of utility to the village community. They were permitted only in localities where relief was required; and due provision was included in the rules regulating them, for the employment and the remuneration at fair wages of the classes in the village who required relief. The works were estimated for and laid out by a civil works Inspector and were kept under inspection while in progress. The landholder undertaking the work was bound to furnish accounts and pay the labourers daily.

Under these restrictions, and subject to the control of the District Officer, the selection and management of these works was left to the landholder. He received two-fifths of the estimated cost on the commencement of work; two-fifths when it was half finished, and the remaining fifth when the final measurements showed that the project had been completed in accordance with the estimates. The landholder entered into an engagement to repay within two years a proportion of the advance, which varied from three-fourths in the case of the least distressed villages or individuals, to one-fourth in the case of the most distressed.

The sums disbursed in the shape of these partly recoverable advances aggregated Rs. 4,88,109, a substantial portion of which will ultimately be repaid by the local proprietors to whom the money was advanced. From this expenditure were constructed 1,147 tanks and 271 embankments designed like the tanks to collect and store water for irrigation purposes, besides supplementing the supply of drinking-water for the villagers and there cattle. Advances under

this system were not made for the construction of masonry wells, as such works were not suitable for the employment of unskilled labour. For the construction of masonry wells, advances under the Statutory rules were given. Besides the tanks and embankments, village roads were repaired and some works of sanitary improvement carried out, such as clearing and draining village sites or filling up insanitary excavations. The works afforded employment to 8,629,788 persons stated in units for one day.

The total amount of earthwork done in works of this class is returned at 147,034,550 cubic feet; the rate falls at Rs. 3-5-1 per 1,000 cubic feet, which is cheaper than the cheapest Intermediate rate of the Public Works Department. The daily cost of each person relieved was 10°9 pies, which is about two-thirds of the average cost per head on the great relief works managed by the Public Works Department. The greater economy is doubtless due to the unwillingness of the managers to employ inefficient labour, to which reference will presently be made.

Works of this class had considerable attractions because they gave employment to labourers who could live in their own homes instead of migrating with their families to relief camps. Such conditions would naturally attract persons who would not submit to the severer test and who only needed a little help whereby to eke out an otherwise insufficient livelihood without throwing themselves altogether on State assist-These were persons of a rather better class than the ordinary day labourer, who, however hardly pressed, would be deterred by pride or by household duties from seeking the more distant and more public relief works. The managers of village works were found to give preference to the better castes and to look more to securing economy of working than to making provision for relief. It thus came to pass that weakly and inefficient labourers were found to seek distant State relief works though village works were in progress in the immediate vicinity of their homes. From one point of view this indicates a defect in the system as a method of general relief: from another point of view it signalizes an advantage and a selfacting principle, which restricts the relief to a particular class for whom large relief works are unsuitable. The facts, however, serve to justify the preference shown by this Government for the large projects conducted by trained officials under strict rules, while they indicate that the system of village works controlled by local unofficial agency serve a very useful purpose as adjuncts to the large relief works. They afforded assistance in an economical and suitable way and under special conditions to classes of persons for which these latter works would have been inappropriate.

Closely akin to the class of works just described are small projects carried out by District Officers entirely at State expense, in the most severely stricken districts, when the landlords were too impoverished to take advances on the terms stated above, or on any term nyolving repayment. In the character of the projects, the utility and their objects, no distinction can be drawn between them and the village works constructed out of partly recoverable advances. In the selection, too, of these projects, and in their control and supervision, the District Officers sought and obtained the assistance of the local landholders and other leading residents of the localities where these works were undertaken, and as in Bundelkhand in 1886 this agency proved a useful auxiliary to the limited official staff available for the purpose.

The works constructed in this way include 324 tanks, 24 embankments, and other minor irrigation works. They afforded employment to 2,825,281 persons stated in units for one day, at a daily cost of one anna six pies per head, and represent 57,864,639 cubic feet earthwork at a total expenditure of Rs. 2,69,061: being a rate of Rs. 4-10-5 per 1,000 cubic feet.

Though less economical than the works in which the local landholders were personally interested because sharing the cost, the results do not compare unfavourably with those already reported for the large projects under professional management in the Allahabad division, where these works were nearly all situated. It will be remembered that in this division the rate for earthwork under the Intermediate system, excluding establishment and contingencies, rose to Rs. 5-14-8 per 1,000 cubic feet.

Under this head also may appropriately be treated the extensive works carried out by His Highness the Mahárája of Benares in that portion of his Family Domains situated in the Mırzapur district in which famine prevailed. When the Local Rates Act (III of 1878) became law, the Mahárája was (at his own request) relieved from the payment of the rates on landed property imposed by that law, on the understanding that he should on his part accept the liability for all famine relief operations which might at any time become necessary in his Family Domains This undertaking has now been loyally discharged by the Mahárája, who placed the control of all relief operations for the Family Domains in the hands of the Government, and furnished the funds necessary for the purpose. The system of relief in the Family Domains, which, though carried out by the Mahárája's own officers, was controlled by the Deputy Superintendent with the co-operation of the Mahárája's son, the Honorable Kuar Aditya Narayan Singh, followed the principles prescribed for the adjacent districts, and involved the expenditure of Rs. 1,24,559 on relief works. (There has also been expenditure on gratuitous relief to which reference will be made later on.) These works consisted exclusively of small

embankments to intercept and retain surface water for irrigation purposes—the form of work which is found most practicable and useful in the hilly part of the Domains where famine prevailed, and where the rocky soil is unsuitable for the construction of wells. The work afforded relief to 1,286,010 persons, stated in units of one day, at a daily cost of about one anna seven pies each.

Closely associated with the various relief measures organized by the State or at its expense are the operations carried out by the Court of Wards for the relief of tenants of estates under Government management and paid for out of the revenue of those estates. The functions of the Court of Wards in these Provinces are exercised by the Board of Revenue, and the obligation which rests on a landholder to assist his tenantry in times of distress naturally received full recognition on the State-managed properties. Unfortunately a large proportion of these estates are too heavily encumbered to meet any special call upon their finances.

The relief works carried out by the Court of Wards took the shape of improvements to the estates concerned, either in adding to the facilities for irrigation, repairing village roads or paths, removing insanitary defects, extending drainage, improving estate buildings or increasing the agricultural resources of the various properties. An abstract of the projects shows that they included tanks, wells, embankments, roads or pathways, drainage or irrigation channels, works promoting sanitation or conservancy, and other miscellaneous projects.

The varied character of the improvements renders it impossible to formulate by measurement the outturn of the work, or to state with strict accuracy the number of persons employed. But the returns which are forthcoming show that 1,120,356 persons were relieved on these works at an outlay of Rs. 1,12,902.

The large and flourishing estate belonging to the minor Rája of Balrámpur in the Gonda district was conspicuous for the assistance extended to its tenantry, of which, stated in units of one day, it employed 626,918, at a cost of Rs. 43,573, or one anna one pie per head daily. Some of the encumbered estates which had no surplus funds available took advances from Government to defray the cost of relief works, and others assisted their tenants by standing security for them. These works were carried out by the different Estate Managers and their staff under the control and supervision of the District Officers.

To sum up the results of the relief afforded by these minor works which have now been described, it may be said that 13,861,435, or nearly 14 millions of people were relieved for one day, at a cost of Rs. 9,92,186. The average cost per head was one anna and two pies.

Before parting from this branch of relief measures, it is right and appropriate that the Government should acknowledge the assistance furnished in the shape of numerous works which were carried out entirely at their own expense in various parts of the Provinces by private gentlemen, chiefly of the landowning classes, in order to supply employment for destitute labourers. This ancient and characteristic form of charity calls for recognition here. Though a useful auxiliary to the State or State-assisted relief works, yet it is naturally not possible to formulate with any precision the cost of works so executed, or the extent to which they afforded relief. The best estimates available go to show that they cost their promoters Rs. 3,27,758 and that they relieved about four million people for one day.

Section II.—Gratuitous village relief, poorhouses, and State kitchens.

Next after the operations of the Public Works Department by far the largest volume of relief was administered through the outdoor or village relief system, poorhouses, and State kitchens. The organization of the system of village relief has already been described in detail, and the place which poorhouses and State kitchens occupied in the general scheme has also been stated in Chapter V above. It is needless, therefore, to repeat the description here; or to do much more than exhibit the statistical and financial results of these great departments of the relief system. The following tabular statement displays the numbers who were in receipt of outdoor relief or were inmates of poorhouses on the last Saturday in every month from the commencement of relief operations in October 1896 to their close:—

MONTH AND YEAR.			Number on outdoor or village relief.	Number in poorhouses or in State kitchens.		
October	1896			,,,	7,840	13,532
November		***			8,787	21,251
December	••			1	80,485	89,951
	1897	100			232,663	57,286
February		•••	***	1	263,950	51,435
	"	***		• • • •		
March	>9	***	***		252,982	80,974
∆ prı l	23	***	***	[262,470	81,107
May	13	***	***	1	288,889	88,947
June	13	100	***	***	380,256	42,837
July	37		***	[857,576	48,770
August	10	100	***	!	834,248	84,180
September		-41	***		197,395	10,230
October	n	• •	***		605	100.

The number of units or persons gratuitously relieved for one day by Government under the outdoor relief system was 76,601,544; while the number of persons similarly relieved for one day in poorhouses and State kitchens was 12,272,416. The total thus gratuitously relieved for one day by Civil (as distinguished from Public Works) Officers was 88,873,960.

The cost incurred in connexion with poorhouses and State kitchens, all charges included, amounted to Rs 10,48,922, the average cost per head of the inmatés thus falling at 16 41 pies.

The total cost of outdoor relief amounted to Rs. 35,54,555, the average expenditure per head being 8 90 pies.

Besides the gratuitous relief administered at the cost of the State, similar relief was distributed under the control of officers of Government in the Family Domains of the Mahárája of Benares and in estates managed by the Court of Wards. The expenditure in the form of gratuitous relief in the Family Domains amounted to Rs. 41,055; while in the Court of Wards' estates Rs. 59,612 were similarly spent (the Balrámpur Estate contributing Rs. 41,929 out of this total). An accurate tally of the number of indigent people relieved has not been kept; but it may be reasonably put at 1½ million units for one day.

This exhausts the various channels of purely State activity: and it is now possible to present a summary of the statistical results for both the smaller famine of 1896 and the great famine of 1897.

The statistics of expenditure and relief during the Bundelkhand famine of 1896 have been already given in Chapter II. They brought, it will be remembered, the account down to the end of August 1896. September 1896 was a transition period. Famine, though imminent, had not been declared, and the small measures of relief still carried on in a few districts, which had suffered severely in the preceding summer, were more in the nature of test than organized relief. Throughout the whole Provinces the number of persons (units for one day) assisted by Government in that month was but 381,840, and the expenditure Rs. 28,869. The total cost of the smaller famine of 1896 may therefore be stated as Rs 12,09,022, and the number of people thereby relieved as 19,881,840 (units for one day).

Taking the 1st October 1896 as the date on which

*Including persons releved in the Family Domains and in Court of wards estates.

relief was again fairly launched, the numbers* relieved by the State from that date till the end of the famine were as follows:—

By the Department of Public Works ... 179,744,948

By Civil Officers—
(a) On works 13,861,435
(b) In poorhouses and by outdoor relief ... 90,373,960

Total units for one day ... 283,980,343

The expenditure, according to the Department of Accounts, under the head of famine, including Rs. 3,38,127

of outlay incurred in the Family Domains of the Mahárája of Benares and in estates under the Court of Waras, amounts to Rs. 2,03,04,817, giving an average daily cost of 13 7 pies for every person relieved But to this should be added various charges due solely to famine, but which under the rules of the Financial Department were to be entered under other departmental heads. It is uncertain how far this method of accounts may have obscured the actual cost of the famine; but the defect, if any, will be small as the items so far traced amount only to Rs. 1,74,401 from the 1st October 1896 to the end of operations. The addition of this sum brings the total outlay for all forms of relief from 1st October 1896 to Rs. 2,04,79,218 and the daily cost of each person relieved to 13 8 pies.

If to these figures of cost and numbers relieved during the famine of 1897 be added the corresponding figures for the relief operations of 1896, it will appear that 303,862,183 or in round numbers 304 millions persons have been relieved for one day at a gross cost of Rs 2,16,88,240, or 1 14 annas per head. Converted into sterling at current exchange, the cost falls at £1,400,000 or one and one-tenth of a penny per head.

Section III.—Operations of the Indian Charitable Relief Fund.

In the course of the previous narrative various references have been made to the operations of the Indian Famine Charitable Relief Fund, and to the advantages which this Fund has conferred on these Provinces during the continuance of distress. Some reports of the working of this colossal charity have already been presented to the public by the Chairman and Vice-Chairman of the Central Executive Committee of the Fund, and it is understood that when the operations are brought to a close the Committee of the Fund in these Provinces will give an account of its stewardship. But without anticipating the full details which will probably be contained in that account, it is desirable in this place to state very briefly the general outline of the history of this most beneficent bounty.

In accordance with the initiative taken by His Excellency the Viceroy at the public meeting held in Calcutta on January 14th, 1897, a public meeting, at which the Lieutenant-Governor presided, was held in Lucknow on the 25th of the same month, to form a provincial organization to cooperate with the Committee already formed in Calcutta. A General Committee of the Fund in these Provinces was elected and an Executive Committee appointed to administer the Fund under the Presidency of the Chief Justice, Sir John Edge. This Executive Committee was subsequently subdivided into two branches, one for the North-Western Provinces, with Sir John Edge as Chairman, and one for Oudh, under the Chairmanship of the Judicial Commissioner, Mr. Deas.

The Executive Committee at once took steps to bring about the formation of District Committees of the Fund for the purpose of raising subscriptions locally and, in the districts where this was necessary, of instituting and controlling measures of relief. In many districts, particularly those in which the larger cities lie, there were already in existence Relief or Charity Committees, whose objects coincided with those of the Indian Famine Relief Fund. These were utilized as District or Local Committees of the Fund.

A question which at once presented itself for solution was through what agency should the various forms of relief intended to be given from the Fund be distributed. Two alternatives presented themselves: the first was the creation of an agency independent of the Government organization already employed on the administration of relief at the expense of the State; the second was the utilization for the purposes of the Fund of the Government organization already in existence. It was decided to adopt the latter course more especially for the distribution of relief in rural tracts, but at the same time to make the fullest use of the various Missionary agencies and other charitable bodies, which had their centres of work in the great cities and to a less degree in the smaller towns, but were rarely at work outside such areas.

It is unnecessary here to give details of moneys received by the Provincial Committee of the Fund and its District Committees. Briefly it may be stated that from the beginning of operations up to the 31st October 1897, the total receipts of the Committees of the Fund in these Provinces amounted to Rs 51,43,453. Out of this the sum of Rs. 46,68,763 was the contribution remitted by the Central Committee and Rs. 4.71,945 was the amount of the subscriptions raised in the Provinces; the remaining items of receipt were chiefly the proceeds of the sale of articles made by artizans and others whose relief took the shape of wages for work done.

The objects of the Relief Fund were thus defined by the Government of India at the time when subscriptions were first invited:—

"Government fully accepts general responsibility for saving the lives of the people in tracts in which famine prevails; and it is essential that private charity, while working side by side with, should not interfere with or overlap the operations which are organized for this purpose. There is, however, ample scope for its exercise in supplementing these operations, in mitigating suffering, and in relieving distress, which falls just short of absolute destitution. Especially, private contributions might usefully be expended on the following objects:—

Firstly, in supplementing the subsistence ration which alone is provided from public funds, by the addition of small comforts, whether of food or of clothing, for the aged or infirm, for the patients in hospitals, for children, and the like

As guardian of the public purse, and in view of the magnitude of the calamity, Government is obliged to limit its assistance to what is absolutely necessary for the preservation of life.

Secondly, in providing for the maintenance of orphans.

Every famine leaves behind it a number of waifs who have lost or become separated from those who should be responsible for their maintenance. It is necessary to provide for these till they are of an age to support themselves

Thirdly, in relieving the numerous poor, but respectable, persons who will endure almost any privation rather than apply for Government relief, accompanied as it must be by efficial inquiry into, and by some kind of test of the reality of the destrution which is to be relieved.

The feeling of the secredness of the parda or domestic privacy is intensely strong in India; and it is most difficult for any official organization to reach, or even to ascertain with certainty the existence of distress of this nature.

Fourthly, in restoring to their original position, when acute distress is subsiding, those who have lost their all in the struggle, and in giving them a fresh start in life.

The peasant cultivator may often thus be saved from losing his helding through sheer inability to cultivate it, and from sinking to the position of a day labourer.

The efforts of the Provincial Executive Committees were carefully directed towards the accomplishment of these four objects. On the first three of these objects the total sums expended out of the Fund up to the 31st October 1897 amounted to Rs 12,29,916, of which Rs 9,07,157 was paid out in the North-Western Provinces and Rs 3,22,759 in Oudh. On the fourth object-which in the opinion of the Lieutenant-Governor was from the beginning the most important, seeing that the Government had from the outset charged itself with the prevention of starvation-the sum spent was Rs 35,38,403, of which Rs 24,93,792 pertained to the North-Western Provinces and Rs. 10,44,511 to Oudh. Including a charge of Rs 11,664 for the working expenses of the 46 Committees existing in the Provinces, the total sum expended by this great and bountiful organization up to 31st October 1897 therefore amounted to Rs 48,28,486. On that date these numerous Committees had in hand a balance of Rs. 3.14.966 which was in a large part in process of distribution for the purchase of seed for the spring sowings.

Out of the remaining balance, and with the assistance of a further special contribution expected from the Central Committee, provision has still to be made for the maintenance for some years to come of the orphans and waifs whom the famine has sent adrift: this being one of the declared objects of the Fund.

It is not possible at present to state the exact number of persons who were relieved through the agency of the Fund. Detailed reports and statistics from every district are now being received and examined by the Provincial Committee, and a complete statement of relief is being compiled. But from the periodical returns, which furnish the only information at present available, an approximately accurate calculation may be made of the total number relieved for one day. For the first three objects of the Fund the numbers reduced to units for one day are these—

I.—Number of person who obtained "add	s in receipt o stsonal comf	of Governmen orts "for one	nt rehef day	7,289,217
II Number of orpha whose maintenance			owards	215,063
III.—Number of respec	table poor	gratuitously r	elieved	
for one day	•••	•••	***	21,801,764
		Total	•••	29,306,044

Besides these, 416,031 different families shared in the distribution of Rs. 35,38,203 for the purchase of plough-cattle and seed grain and other necessities of their calling. The average donation to each family thus appears to be about Rs 8-8-0. But a certain number of the payments under this head were to labourers for tools, to weavers for yarn, and so on; and as these payments were all of small amounts, the average payment for plough-cattle and seed grain only would be considerably higher, probably over Rs. 10 per family. If the average family be taken at five persons, the number of persons who benefited by this form of distribution will exceed two millions.

The statement of the objects of the Indian Famine Charitable Relief Fund, which has been set out above, shows that the Fund was not established with the idea of displacing or dispensing with the Government relief. The relief given at the cost of the State had never been confined within definite limits As has already been mentioned in the course of this narrative, the necessity of the sufferers had been accepted by the Government as alone setting metes and bounds to the assistance to be given; this principle had inspired the design of the relief measures and had guided their execution. The action of the Fund came, therefore, as supplementing and not as superseding the operations of the Government; but in that sphere it had an enormous effect in alleviating the lesser hardships which existed, while the worst effects of the famine were being removed by the Government relief. Undoubtedly, however, the greatest result of the Fund has been the widespread efficacy of the gifts made for the purpose of "restoring to their original position those who had lost their all in the struggle and giving them a fresh start in life." Overwhelming testimony has been received to the excellent effects which the Fund working through this channel has produced. The tale of this great bounty

will remain with the people as an abiding memory of the large-hearted charity of the English-speaking public.

Besides the bounty offered by the Indian Famine Charitable Relief Fund there have been other manifestations of charity from outside India, such as the distribution of grain by charitable America; the distribution of clothes sent by the Marchioness of Dufferin and Ava; the distribution of money by Lord Radstock's Fund, called "Christian succour to India." And besides all these there has been a free and generous distribution of charity by the well-to-do landed proprietors and merchants throughout the country. It is not possible to quantify or gauge the extent of this last mentioned charity; but it cannot be doubted that it has had a great effect in mitigating the effects of the famine: and it therefore merits grateful recognition in this place.

CHAPTER XI.

Food supply, Prices, and the effect of high prices on Crime.

In the earlier part of this narrative it has been shown that from the outset it was the policy of the Government to leave the food supply entirely to private trade and to rigidly abstain from all interference with its operations. It would be superfluous in this place to array the overpowering arguments in favour of this policy, which strictly follows the principles laid down by the Indian Famine Commission. Its best justification will be found in the practical success which has attended it.

When prices rose to the extreme level which they attained in the autumn of 1896, representations were made to the Lieutenant-Governor by public bodies, associations, and even by Government officials, who considered that the State could usefully and effectively undertake to regulate prices by engaging in the import business or by controlling the public sale of grain at beneficial rates. An instance of such representations has been already quoted. This Government, however, from first to last adhered to the principle of non-interference. In one or two instances in isolated tracts where there was some doubt whether the resources of the petty village traders would be equal to the task of importing the grain required for consumption on relief works and in remote villages, discretion was given to local officers to assist such traders if necessary with money advances; but this discretion was little used. Private trade everywhere and always proved equal to maintaining and distributing an adequate supply of food grain even in the most distressed and most isolated tracts. There can be no doubt that this would have been impossible but for the extensive railway communications which now exist in all parts of these Provinces, whereby the wheeled traffic and pack-cattle were set free to spread the grain among the villages from the nearest railway stations. A generation ago (in 1867) Mr. Girdlestone, summarizing the lessons of previous famines, insisted upon the futility of attempting to supply the deficiency of the harvests by importation He quoted figures to prove that the cost of moving as much as 400,000 tons into the distressed tracts would be absolutely prohibitive, while Mr. (now Sir John) Strachey gave reasons for holding that the total carriage of the Provinces would not suffice to convey onetenth of the 800,000 tons required to feed the Rohilkhand division alone Since those distinguished gentlemen wrote a revolution has taken place in the condition of internal trade. People no longer in famine times migrate or move to food; food is now moved to them. The railway traffic returns now show

that for nine months alone, from October 1898 to June 1897, the rail-borne imports of food grain were 645,628 tons and the exports 306,377, while this vast and beneficent trade movement was effected not only without difficulty or apparent effort, but with great pecuniary advantage to the State.

Of these imports nearly 325,000 tons came from Bengal, the greater part being Burma rice carried from Calcutta.

Besides the usual traffic returns furnished by the Director of Land Records and Agriculture a special record has been maintained since the 30th January 1897, showing week by week the imports and exports of food grain by rail for each district of the United Provinces. Both of these sets of returns are printed as an Appendix to this narrative. They display certain discrepancies, due to the difference in the time which they cover, to the different systems on which they are prepared, and possibly to some difference in classification. The Director's returns are quarterly and prepared by large territorial blocks, and do not show transfers from one district to another within the same block. The Railway return is weekly, and shows the imports and exports of each district irrespective of the place of despatch or distribution. Both are confined to rail-borne traffic.

During the Bundelkhand famine in the summer of 1896 the net imports of food grain into the affected districts amounted to 27,500 tons. The balance required for consumption during the period was supplied by local stocks, which were thus much depleted. In the last quarter of 1896 the net Provincial imports came to about 168,500 tons, of which more than half was received by the Allahabad division and over a quarter by Agra. The Benares block, including the Benares and Gorakhpur revenue divisions, was the only other large importer. At this particular time the Meerut division, in spite of its prosperous condition and its good harvest, gave little assistance to the distressed parts of the Provinces and on the whole showed a net balance of imports. The only exporting division was Rohilkhand, which sent a substantial amount of grain to Meerut and to the Panjáb. It may be inferred that the greater prosperity of Meetut enabled its people to retain their produce either as a precaution against threatened distress or in hope of higher prices later on; while the more necessitous peasantry of Rohilkhand were compelled to part with a portion of theirs. The vast bulk of the net provincial imports came from Calcutta and other places in Bengal. The Panjáb supplied practically nothing; but the Central Provinces, in spite of their own distress, sent 16,600 tons; and the Bombay Presidency and Port nearly 8,000.

In the first quarter of 1897 the Provinces received a net import of about 1,92,000 tons, of which over 70,000 tons went to the Allahabad division. Rohilkhand in this period was obliged to import about seven times the amount it had parted

with in the previous quarter, drawing its supplies from Bengal. the Panjab, Oudh and Meerut. The Meerut division again appears as an importer to the substantial amount of about 25,000 tons. The Bulandshahr district alone in this division was up to this an exporter of grain, and that in comparatively small quantities. It might have been expected that these districts, which had enjoyed good harvests, would, under the attraction of very high prices, have exported some of the surplus stocks which they undoubtedly held. It does not appear that any considerable quantity left the division by road. The only movement of this description ascertained to have taken place was some export from marts in Aligarh to Gwalior, stimulated by State advances made to Gwalior eartmen, who found profitable employment in carrying grain by road from Háthras and other marts outside Gwalior territory. The explanation seems to be that the peasantry of the Meerut division, who had suffered much in previous famines, held up their produce till the prospects of the future should be assured. This was in fact done everywhere; but the Meerut people could afford to do it on a larger scale than others. There was a general apprehension abroad that the cycle of bad seasons had not ended and that it would be prudent to hold all surplus grain from one harvest till the next had been gathered. Even the usual supply did not therefore come into the local markets, and imports were required to provide for the townspeople and for that section of the population which has to purchase its food. Certain staples also, such as gram, of which the local production is inadequate, could only be supplied by importation. This explanation, which has been tested by local observation, gains further support from the large export from Meerut which set in during the second quarter of the year. As soon as the magnificent spring harvest of the division had been secured, every district in the Meerut division commenced to send away grain in large and increasing quantities. During the second quarter of 1897 the returns for the division showed a net export of nearly 73,000 tons, of which about two-thirds had gone to the needy districts of these provinces and a large amount to Calcutta, Rájputána, and Panjáb.

During the remaining months of the famine the Meerut division continued steadily to dispose of its surplus, and was able out of its plenty to contribute to the wants of those less fortunate tracts which were obliged to seek their food and seed grain outside their own borders.

During this second quarter of 1897 the Provinces, reinforced by the spring harvest, had become more than self-supporting. The outside supply fell off and the export rapidly increased till the quarter ended with a net export of 21,245 tons. The Allahabad division continued to absorb food, but it now obtained its supplies largely from the more favoured parts of the

North-Western Provinces and Oudh. A considerable amount of Burma rice continued to pass in through Calcutta; but, on the other hand, a large movement of grain set in towards Bengal and the seaboard, and the Central Provinces began to take back the supplies they had sent during the two previous quarters. The Gorakhpur division was now exporting largely; and many of the Oudh districts, where the spring wheat had proved unusually good, were disposing rapidly of their surplus. The movement of grain continued to be considerable during the next three months, when the Provinces sent away a net balance of about 14,000 tons. The great bulk of the supplies available in the well-stocked districts found their way to the more destitute parts of the province where the highest prices prevailed. During the whole period the Meerut division continued to export largely; while the canal-irrigated districts of the Agra division began to part with their stocks in July when the prospects of the autumn crops became favourable, and this movement increased as those crops were reaped. The Gorakhpur division maintained a brisk export through July; but the business slackened towards the middle of August as the local stocks became depleted and the new harvest had replenished other markets. By the beginning of September the Gorakhpur district had begun to import grain. Rohilkhand wavered between exports and imports; only the district of Bijnor continued to draw its supplies steadily from outside till the early autumn staples were ready. The districts of the Lucknow division during these three months imported steadily, except Sitapur and Kheri, whose superior harvests enabled them to dispose of a large amount of produce. The Fyzabad division also showed its return towards prosperity by the steady, though moderate, balance of its exports during these months.

The Benares division continued a steady importer even after an excellent autumn harvest would have enabled it to sell largely. This circumstance cannot be attributed to any deficiency of its stocks or produce, and unless its grain was removed by river traffic and so escaped registration (which is probable), it must have accumulated large stores.

The Allahabad district continued all through to import large quantities of food, much of which was re-exported from Cawnpore to the distressed districts of Bundelkhand. This movement began perceptibly to slacken in September, when the early crops had ripened and food became available locally. The Provinces as a whole recovered rapidly during this period.

In reporting to the Governor-General in Council on the general condition and prospects of the Provinces in the end of November 1896, the Lieutenant-Governor made the following observations:—

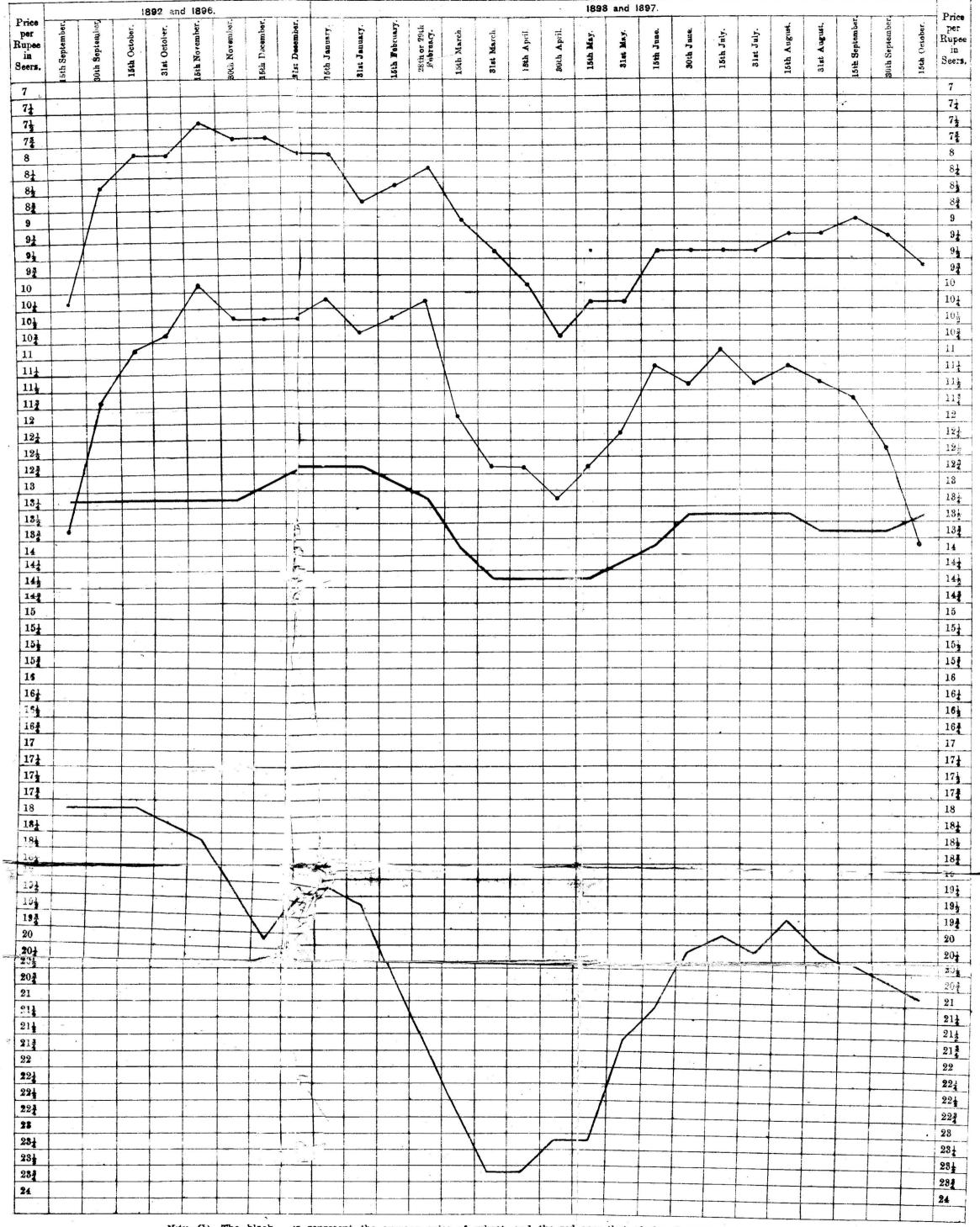
"In regard to the question of food supplies and private trade, the only measure which the Lieutenant-Governor and Chief Commissioner has been able to suggest was the reduction of railway freights on food stuffs

consigned to these provinces. All that could be done in this way has been done by the Government of India, and no further measure seems practicable, unless a departure be made from the principle of non-intervention with private trade. But the Lieutenant-Governor is strongly averse from such a departure and has publicly expressed his aversion. It is true that the prices of food grains throughout these Provinces at the present time are phenomenally high and that the list of prices current present many of the features, notably that of approaching equality between the prices of the coarsest and the best food grains, which characterize famine times. But trade at the present time is active Without pretending to accuracy on the question of food stocks available in the Province-a matter on which, indeed, accuracy is unattainable—the Lieutenant-Governor believes that there is an ample supply for three or four months; and even should this supply not receive the full accretion from the rabi crops which is to be reasonably expected, still he thinks that private trade may be fairly trusted to make good the deficiency. At all events, there is nothing in the present condition of things which induces Sir Antony MacDonnell to recommend any interference with the free play of private trade."

These anticipations were fully realized.

The figures already given and those printed in the Appendices to this narrative deal exclusively with rail-borne traffic. The only road or river traffic at present systematically recorded is that inconsiderable traffic which enters from Nepál and Thibet. The railway traffic shows with sufficient accuracy the trade between the entire Provinces and other parts of India; but the present returns take no account of the extensive road traffic which is the largest distributing agency between district and district. It has been ascertained, for instance, that a large and steady movement of grain went on by road from Cawnpore and Allahabad into Bundelkhand, and no doubt drained off a large portion of the net rail-borne imports shown against the former districts. Observations made at Kálpi, where the road from Cawnpore to Jalaun crosses the Jumna, showed that the road imports at that point were not far short of twice the amount brought into the whole Jalaun district by rail; while at a crossing higher up the river the imports are reported to have much exceeded those which entered by the Kálpi route. The road imports into Bánda and Hamírpur were also very extensive and probably very much in excess of the rail-borne supplies. It is impossible, therefore, in the absence of any record of road traffic, to say how far each of the distressed districts was fed by imported grain.

During the spring and summer of 1896, prices throughout the Provinces generally reached a level which had been attained in the past only during times of famine. But still, even in the Bundelkhand districts where distress prevailed, the price of food grain did not rise above 21lbs. or 22lbs. for the rupee for the better staples, while coarse grain was procurable at 30lbs. or 32lbs. In the middle of September, when the apprehension of a general failure of the crops began to spread



Notes—(1). The black as represent the average price of wheat, and the red ones that of the cheapest grain for the time being in at marts of N.-W. Provinces and Oudh, viz., Jhansi, Gawnpore, Benares, Lucknow. Meerut, Bareilly, Gorakhpu and Agra.

(2). The fine lines snote the prices for the years 1896-97, and the bold ones those of the normal year 1891-92.

the average rates throughout the Provinces as a whole were 20½ lbs. of wheat and 27½ lbs of coarser grain per rupee. As the weeks passed without rain prices rose rapidly. In the middle of November, when the loss of the autumn harvest had been established beyond hope of retrieval and the prospects of the spring sowings were at their worst, the average prices had risen to 15lbs. of wheat and 201 lbs of the cheapest grain per rupee. Nor was this the rate in famine districts only, but the average deduced from prices current in the leading markets throughout the Provinces. The normal prices, ascertained for the purposes of the Famine Code, were 2931bs. per rupee for wheat and 40 or 41 for the cheapest of the coarser grains The price lists printed in the Appendix volume will show how little prices varied between the worst and the best districts. The difference cannot even be measured by the cost of carriage Sometimes the rate of a particular grain will be found quoted higher in a well-stocked Meerut district than in a market of afflicted Bundelkhand Prices were in fact artificial and highly sensitive, and were influenced by considerations which it was often impossible to ascertain or gauge.

The 15th November 1896 marks the highest level reached by prices. The favourable rain which fell at the end of that month entirely altered the prospects of the spring crops, and the demand for seed grain being satisfied, prices began to fall. The relief was slight, but it served to restore confidence, which the steady rise of the previous two months had shaken.

December, with many variations, saw on the whole little or no improvement In January 1897 the prospects were better, and by the end of the month prices had slightly relaxed. Wheat had in many places exceeded 18lbs. to the rupee, and on an average of the leading markets stood at 17½lbs The coarser grains, however, showed little tendency to a relaxation of price, with perhaps the exception of common rice, which was influenced by the large importations which had set in from Burma. But the improvement was not generally main-The high winds which blew during February caused a good deal of apprehension and anxiety concerning their effect on the outturn, which reflected itself at once in prices, and February ended no better than it had begun. By the middle of March, however, this panic had worn out; it had become evident that the crops on all the better lands were turning out well, and by the end of March a decided fall in prices was manifested, which naturally showed itself chiefly in the main staples of the spring harvest. Some of the autumn grains on the other hand began to show signs of exhaustion. Wheat now averaged 20lbs, and in many places sold for 22lbs., per rupee. Barley, now the cheapest of the coarse grains, reached 25 lbs. per rupee, and in a few of the better-stocked markets went up to 29lbs and 30lbs April brought slightly easier prices; but after that month the tendency became

retrogressive. Wheat rose slightly till the middle of June, and made another small slight advance in August, and thenceforth showed little tendency to relax till after the demand for seed grain in October had been satisfied.

The coarse grains wavered in price through June and July as the prospects of the harvest rose and fell. In August they began to decline as the new grain approached maturity, and by the end of September were decidedly easier. There was no longer any scarcity of food in the country, although the market quotation showed the quantity procurable for one rupee to be no more than 30lbs. But the market was no longer a gauge of the quantity of food available. Throughout the villages the early millets and maize could now be obtained at a reasonable rate and in sufficient quantities for local consumption, though they had not found their way in bulk to the central markets.

The leading features in the history of prices during the famine period may be briefly stated. The first was the high level to which prices attained and the persistence with which they remained at that level. The second was the extreme sensitiveness of the market to every passing influence, the oscillations however being within narrow limits, and the close and very persistent approximation in price between wheat and the cheapest of the coarser staple food grains. This characteristic has been observed in previous famines, but was never so marked as on the present occasion. The outturn of the autumn harvest in 1896 brought no relaxation, and the extensive imports left prices unaffected. The large addition made to the food-supply by the spring harvest of 1897 effected a much smaller improvement than there was reason to anticipate. It was confidently expected that when the prospect of a good autumn harvest in 1897 was assured a sharp fall in prices would at once set in. But this expectation was not realized. Though crops of perhaps unrivalled excellence have been now assured, and though food has now become abundant in the rural tracts, yet the rates in the larger markets, by which the prices current are ruled, gave way slowly and up to the end of October had not reached a point which taken by themselves would indicate the return of plenty. Making every allowance for the casualties of preceding seasons, for the extensive failure of the autumn crops in 1896 and the short spring harvest of 1897, and for the scarcity prevailing in other parts of India, it would still be unsafe to ascribe the phenomenally high prices of 1896-97 altogether to depletion of stocks and exhaustion of supplies. In the very distressed districts where the crop failure has been continuous and severe the phenomenon is intelligible. But it can be scarcely said that throughout the country generally the character of the late harvests has been such as to explain the extraordinary and persistent enhancement of prices which occurred.

It may be that the slow-acting influences of currency and trade have contributed at this epoch a certain stringency to prices that might have been expected at an earlier stage in financial history, and it may be that such stringency has come to stay. But passing over this speculative aspect of the question there is something in the relation of prices to stocks during the famine period which remains unexplained.

The estimate already given of imports and exports and the movement of prices make it reasonable to believe that, taking the Provinces as a whole, the food supply in existence never fell below the requirements of the people. Though in some tracts the local resources were undoubtedly deficient, yet in other parts there were surplus stocks which the very high prices that prevailed would, under ordinary conditions of trade, have drawn towards the depleted districts. As soon as such trade movement set in, the Provinces ceased to import, and commenced even to send away grain to other Provinces. It may be inferred that prices were kept up at least as much by an anticipation of still worse scarcity to come as by the pressure on stocks which existed at the time. Popular opinion imputed this to the action of the large holders in central markets, anxious to hold out for still higher prices. As in Judæa of old, this led to vehement feeling:-"He that hideth up corn shall be cursed among men: but a blessing on the heads of them that sell." But all the facts and probabilities point the other way. They go to show that the stocks in the hands of traders were abnormally low, and that such grain supplies as existed were largely retained in the possession of the cultivators and those petty dealers whose transactions do not extend beyond their own villages. When the deficiency of previous seasons was followed by the failure of the rains in 1896, a belief gained general prevalence that the country was on the eve of a famine of great intensity and duration. Every cultivator retained all he could from the produce of his fields to meet the wants of his own family and relations in the coming time of trial. Prices are regulated by the stocks in the hands of traders, and they kept up because the markets were starved by the retention of produce in the hands of the nontrading classes.

This explains why, with each successive harvest adding to the supplies, prices failed to show any adequate relaxation.

It explains why village prices after a successful harvest were much cheaper than the prices in central marts.

It explains why the canal-irrigated districts, in spite of excellent crops, continued to import grain till the bountiful yield of the spring crops found the cultivators' granaries still stocked with the produce of a previous harvest.

It accords with the circumstance, already noticed, that the prosperous peasantry of Meerut were able to hold up their grain while the more necessitous people of Robilkhand, Oudh and Gorakhpur were compelled to part with much of theirs.

Some further confirmation of these suggestions may be found in the character of the people who resorted to relief works. The vast bulk of them were drawn from the landless classes, day-labourers, and workmen who were not themselves holders of land. The cultivating classes formed a small proportion of the relief workers. Doubtless the high prices they had previously got for their produce increased their power of resisting the pressure of hard times.

If this explanation is correct, if the rural population were both able and willing to husband their resources through such a period of deficient harvest, and if they have begun to lay by in times of prosperity and high prices (the latter largely the result of improved communications with great markets), then it must be recognised that they have shown a spirit of providence, as they have certainly this year exhibited a power of resistance to pressure of scarcity, hitherto unknown in these Provinces.

Reference has more than once been made in the course of this narrative to the law-abiding and patient spirit displayed by the body of the people at a time when the temptations and the opportunities for crime were great. This spirit is reflected in the crime returns of the period.

Crime in its bearing on famine and famine relief may be divided into two heads: first, the crime which is associated with turbulence, violence, public disorder, or concerted outrages in which whole classes of the community are associated; second, that simple or ordinary crime which is the natural outcome of privation and distress. The prevalence of crime of the first category would indicate a failure of relief organization and of administrative measures to secure the protection of property. The prevalence of crime of the second kind is an indication, and can be used as a gauge, of the extent of distress. Crime of the first class was conspicuously moderate in its character and dimensions during the famine period in these Provinces. Cases of rioting and unlawful assembly were less frequent than in ordinary years. Arson is a crime which experience shows to be attendant on famine and indicative of public disorder. In the earlier months of the famine, when relief measures were in the initial stage, the attention of Government was aroused, as already stated, by a suspicious excess of such cases in some districts. This excess diminished with the growth of public confidence in the relief measures.

Another class of crime indicative of disorder is dakáiti and robbery. Crimes of this class were much more numerous than usual during the famine period; but very many of them were merely "technical dakáities," free, to a greater extent than usual, from the aggravated features which would have indicated a general spirit of turbulence They consisted, commonly of isolated cases of plunder of grain carts or stores by knots of hungry and unarmed villagers Robberies and dakáities by armed, organized or professional gangs were unusually rare.

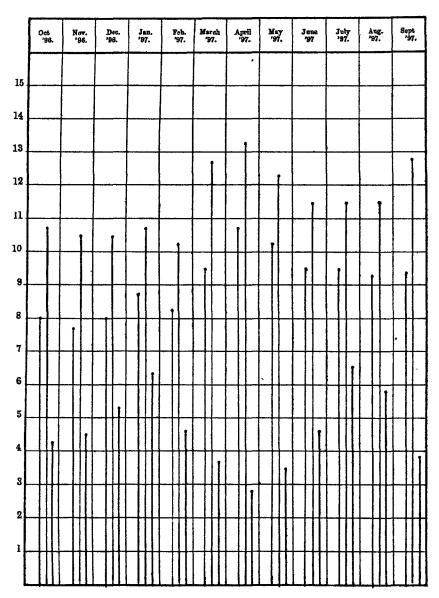
The chief increase of crime occurred under the head of those offences which are classed as theft or housebreaking according as they are committed outside or inside a dwelling. The reported cases of theft and house-breaking during the twelve months exceeded by 38 per cent. the previous year's return. But even this high total will not perhaps be thought excessive as the record of this sort of crime among a population of nearly 46 millions suffering from famine or famine prices. A large proportion of these crimes were of a very trivial description, such as pilfering or snatching of grain or other food, or field thefts when the standing crops were ripe. Petty offences of this class, committed under the pressure of hunger, were naturally and properly treated by Magistrates with exceptional lenience and generally punished by merely nominal sentences; while organized and violent crime was sternly repressed. A return of reported offences during the famine months (printed in the Appendix) shows that general crime, though of increased volume, moved on the ordinary lines. It rose as usual in the winter months, when field labour is slack, reaching a maximum in January, which was followed by a very sharp fall. The movement was accentuated by the special conditions of the year. The great extension of outdoor relief in January 1897 had its response in the extraordinarily rapid decline in crime, the fall being most marked in the crime classed as theft and burglary. The decrease continued through March and April, when the spring harvest brought both food and employment. During May crime remained stationary in some districts, but showed in others a tendency to rise which was accentuated in June and July. movement is usual; but here, again, it was exaggerated by the desertion by the people in those months of the relief works which had afforded so much support to the labouring classes. By August the early crops were reaching maturity, and crime tended to resume its normal dimensions. By the close of the famine in September there was little to notice beyond the ordinary fluctuations and the natural results on the crime rate of continued high prices.

It may be observed that the increase of ordinary crime was not confined to the distressed districts, but was

shared by districts where there had been no general failure of crops and no distress among the rural population. No doubt the pressure of high prices, which fell heavily on all who had to purchase their food, stimulated crime even where there had been no crop failure or want of usual employment. The relief measures went far to equalize the conditions affecting crime in all districts.

There has been simultaneity, if not a closer connexion, between the movement of crime and the movement of prices throughout the year. The accompanying diagram shows that as prices rose in October and November the volume of crime increased with them and in the next two months remained large, while prices maintained a high level. As prices fell in March, crime decreased rapidly and reached its minimum in April, when prices also were at their lowest. Thereafter crime increased as prices again became more stringent and did not begin to sink till the early staples of the autumn harvest became available in the villages at the end of August. The correlation is not always exact, as other disturbing influences were at work. But the general identity of the movement is clear.

Diagram showing the average price of wheat and cheapest grain (seers per rupee), and incidence of crime per 10,000 of population, from October 1896 to September 1897.



Wheat	Note—A rise in the blue and red lines indicates a fall
Cheapest grain	in prices and vecs versa.
Crime	i.

CHAPTER XII.

Public health during the Famine period.

In the foregoing chapters the condition of the people, the prevalence or absence of disease, and the variations of public health have been noticed at different points. But the matter has more importance than that which it possesses as part of the general narrative of the progress of events. The health and vitality of the people during the famine period form one of the most direct and conclusive indications of the sufficiency and success or the deficiency and failure of relief measures. The vital statistics have throughout been regarded and utilized in this way by this Government. They were carefully scrutinized not merely month by month, but in a special fortnightly return which all Civil Surgeons were required to submit, through the Sanitary Commissioner, dealing with the general health of the people as evidenced by the mortality. the attendance at hospitals and dispensaries, the condition of people on relief works or in poorhouses, and of those admitted to jails, and by the nature or the extent of epidemic disease. This fortnightly return was supplemented by a monthly report from the head of the Medical Department on the working of the various relief hospitals and the condition of their inmates and of the persons in poorhouses or on relief works. These returns formed a valuable guide to Government in gauging the degree of success which attended the working of relief operations and in determining the necessity for any change in its measures.

The death-rate is the best test of the sufficiency or insufficiency of a relief organization. It is now possible to apply this test generally to the operations which were carried out in the North-Western Provinces and Oudh during 1896-97.

The special arrangements for medical relief have been set forth in a memorandum by the Inspector-General of Civil Hospitals which is printed in the sequel to this report. Every considerable relief work or group of works was provided with an hospital and the necessary professional staff and appliances. Every poorhouse had also its hospital under professional control, and one or more medical subordinates were exclusively attached to the more important poorhouses. The services of five Military Surgeons and four Military Assistant Surgeons were enlisted, while the special civil medical staff amounted in the time of greatest pressure to 319 officers of all grades. The mortality among relief workers and their dependants is shown to have been extremely moderate.

In poorhouses the deaths were more numerous; but, as already explained, these institutions were really in the nature of infirmaries. They were the receptacle of all the waifs and strays, the broken-down vagrants, the cripples and diseased, and those who lived by the exhibition of their infirmities. Here were to be found all those cases of emaciation, deformity, and wasting disease which have come to be popularly regarded as types of a famine-stricken population. In the poorhouses, too, might be found those persons who persistently neglected or refused the means of relief till they were picked up in a prostrate condition and carried to the nearest relief centre. When restored to strength and drafted to works, they would usually abscond and again wander aimlessly till strength failed. The famine produced many instances of persons who had to be saved more than once in spite of themselves. Naturally the mortality in poorhouses in severely distressed tracts was high.

The comparative freedom from illness, especially of an epidemic character, in the relief centres, and the low deathrate must be ascribed to the measures taken to secure sanitation and a good supply of pure water and to check epidemic disease on its first appearance. This matter has already been briefly treated in connexion with the operations of the Public Works Department; but as it is believed that the sanitary organization on this occasion is an entirely novel feature of relief administration it may be well to state in more detail the shape which this organization took. The rules under this head and the manner in which they were carried out are thus summarized by the Sanitary Commissioner in a valuable memorandum which accompantes this narrative:—

- "'Wells likely to be used for drinking water by labourers on relief works should be examined and, if found pure, should be guarded from contamination for a week before required, and the water-supply arrangements perfected before the labourers arrive. Foul wells should be absolutely closed. Should cholera break out, the wells should be disinfected at intervals of two or three days with permanganate of potash until the labourers are split up and drafted off to other works.
- "'From the labourers, Brahmans should be selected to draw water from the wells for Hindus, and Kahars to distribute it. The vessels employed in drawing and distributing the water should be ordinarily of metal, and scrupulously clean. Kerosine tins have been found to be most useful and acceptable.
- "'A superior medical officer should inspect periodically (1) the relief labourers on relief works not of the Article 65(a) class; (2) the sanitary and medical arrangements in connection with such works; and (3) poorhouses and hospitals.
- "The Famine Code (section 85) provides for the erection of latrines. These should usually be on the trench system, and provided with grass screens.

- "'A line of flags and posts should be placed all round each relief work, and 300 yards from the same, and great care should be taken that no nuisances are committed within the area enclosed by such flags and posts.
- "'Medical officers in charge of hospitals and relief works should very carefully watch for the occurrence of any cases of relapsing or famine fever, and immediately isolate any such cases.
- "'Provision for the immediate isolation of cases of cholera, small-pox or other epidemic disease should be made at each work. Grass huts, which can be subsequently burnt, will usually be the best form of isolation hospital.'
- "These orders were carefully carried out. As a rule latrines at the headquarters camp on a relief work were on the trench system, and posts and flags were placed round the constantly-shifting bodies of men on road works. Where works were of a more permanent character, as for instance the digging of a tank, trenches were used. The areas were usually kept very fairly clean. Probably, however, the most efficient measure was the careful custody of the drinking supply. Particular pains were taken that people did not dip their own lotasor vessels into the wells, but received the water from the hands of specially-appointed water-carriers, both Hindu and Muhammadan. Along the relief works water was conveyed in water-carts for the use of the labourers. In some localities the drinking water was thus carried from a considerable distance. All doubtful wells or sources of supply were kept closed under a guard. When disease broke out, or a move was contemplated, search parties went in advance to select the sources of supply and protect them. Such search parties had also to ascertain that epidemic disease did not exist in villages in the locality to which the workers were moving. Sometimes irrigation wells in the fields were cleaned out, disinfected, and used in preference to the masonry wells, as being less likely to have been polluted. Disinfection of wells with permanganate of potash was not practised only when disease was present; it was commonly adopted if any doubt whatever existed as to the character of the supply. There is no doubt as to the utility of such a proceeding; only experience showed that to be efficacious it must be practised every three or four days.
- "Where works were vacated on account of cholera, the small huts of infected gangs were burnt and not allowed to be carried on to the next camp. Disposal of bodies was carried out by specially-appointed men.
- "The character and condition of the food was watched. Where necessary, local officers increased the appointed ration in particular cases. Hurtful grains, such as "khesári".dál, were excluded from the works, and vegetables and antiscorbutics were regularly supplied.

"The same principles were carried out in poorhouses and hospitals. As regards the former, rules are laid down for their conduct in the Famine Code; but as the result of observation it was considered desirable to supplement them by suggestions which were accordingly prepared and issued by Government.

"These arrangements, which were settled and agreed upon before the institution of relief works, worked without difficulty, and the people soon fell in with the scheme. The Sanitary Commissioner, the Special Famine Medical Officers. the Civil Surgeons of districts, and the Deputy Sanitary Commissioners visited and inspected the works and camps at intervals, and the Public Works officers in charge of the gangs selected and appointed the subordinates from among the workers. Weekly reports were submitted to the Sanitary Commissioner's office by the Special Famine Medical officers. and Civil Surgeons and Deputy Sanitary Commissioners also reported as occasion required. Upon these reports instructions-telegraphic or otherwise-were issued where necessary. On the occurrence of serious disease or other emergent matter, copies of reports were sent by the Secretary to Government in the Public Works Department, to the Sanitary Commissioner, who was authorized to issue instructions direct to members of that Department to avoid dangerous delay, Throughout the whole course of famine relief measures no friction whatever occurred between the Public Works and Sanitary officers on the works; and it is largely to the assistance and co-operation of the former Department that the success of the sanitary arrangements was due.

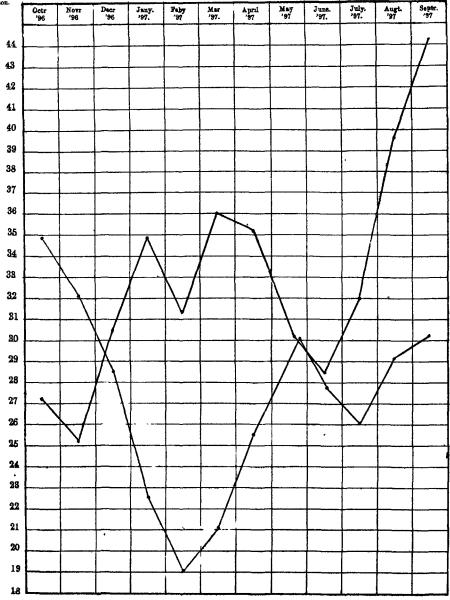
"To ensure early recognition of distress in any locality, special arrangements were made. The health and condition of the general population was reported on fortnightly to this office by all Civil Surgeons, and from these reports a general statement was compiled and submitted to Government. District Officers also telegraphed the death-rates of their districts month by month.

"A circular letter was issued to all District Officers early in the year, requesting that measures might be taken so that all births and deaths in poorhouses and on relief works should be carefully recorded."

The great benefits derived from the use of permanganate of potash have already been mentioned in connexion with the operations of the Public Works Department. Its use rarely if ever excited any apprehension or opposition on caste grounds. Its efficacy was so popularly recognised, that in some cases village proprietors applied for a supply to use in their own wells. It undoubtedly proved a most useful agent in checking disease.

Mortality in famine districts in famine period as compared with decennial mean in same districts.

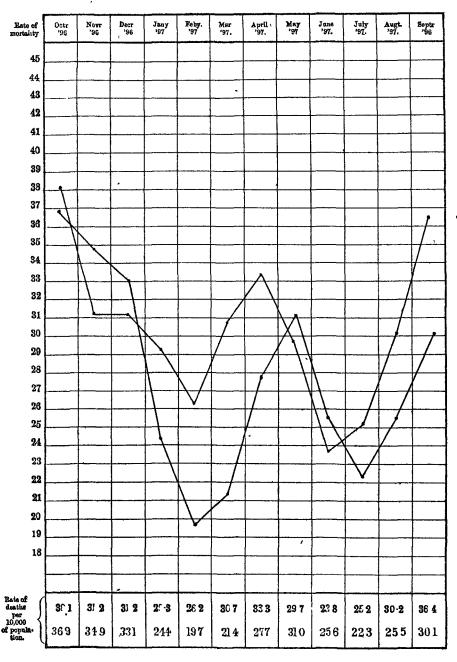
Deathrate per ten thouand of population.



Famine period in black.

Decennial mean in red.

Diagram showing the mortality in Scarcity districts in famine period, compared with decennial mean in same districts.



Famine period in black. ______

Decennial mean in red. _____

Outside the relief works and poorhouses the condition of the people generally can best be judged by the recorded death-rate which will presently be given for each month. The mortality is usually in almost direct relation to the severity of distress otherwise known to prevail. It was not to be expected in tracts of country where the failure of crops had been so great and continuous as to force one-third, one-half, or even a larger proportion of the population to seek State relief, and where the grain markets had only been kept stocked by imports, that no abnormal mortality would occur. Where considerable numbers of the people had been reduced to short rations and forced to subsist largely on the less nutritious articles of diet, eking out their supplies by the use of herbs, fruit, and wild produce, it was inevitable that the diseases always attendant on famine should be manifested.

The accompanying diagrams compare in a graphic manner the rise and fall of the death-rate month by month during the famine period for the Provinces generally, and also for the famine and scarcity districts. Starting in September 1896 with a death-rate slightly below the decennial mean, the advantage was maintained in that month and increased throughout October both for the whole Provinces and for the famine districts. The mortality usually falls in November, and the year 1896 was no exception. In fact the fall in the provincial rate was rather greater than usual, and in the famine districts it was almost normal. In December, however, the conditions were reversed. Instead of the usual decrease the death-rate rose slightly throughout the Provinces! though still remaining below the decennial mean. The enhancement, though not considerable, was most marked in the famine tracts. The figures for the scarcity districts remained stationary. In January the death-rate, which ordinarily would have fallen sharply, remained almost steady for the Provinces as a whole, while in the scarcity districts there was a fall; but the famine group of districts displayed a further rise; these abnormal movements brought the provincial incidence a little above the average. These months were cold and wet-conditions which must inevitably tell on the large crowds encamped on relief works. Pneumonia and allied diseases were responsible for many deaths. In February more favourable climatic conditions were established. This is the month in which the provincial mortality ordinarily sinks to its lowest point. The usual fall took place in the famine and scarcity tracts as elsewhere, and in about the normal proportion. Still following the normal movement the death-rate in March rose everywhere, but more sharply than usual. For the Provinces generally it stood in this month at 311 per mille against a decennial mean of 213. In the famine districts the proportion was 3 60 to 2:13 and in the scarcity districts 3.07 to 2.14. In April there was

some improvement. Much the same districts were affected; but there was some recovery in the worst areas, and the deathrates began to fall back towards the normal level. The provincial death-rate rose as usual in this month; but the rise was
much less than normal, while in the famine tracts there was
an actual decrease. In the scarcity tracts there was a slight
rise. The provincial rate was now 3 19 against a mean of 2 62:
for the famine districts the corresponding figures were 3 52
and 2 57, and for the scarcity districts they were 3 33 and 2 77.

During May these conditions were repeated in a more marked form. Instead of the increase which usually characterizes this month, the provincial mortality fell appreciably: the fall being most decisive in the famine and scarcity tracts. The spring crops had replenished the food supply in the hands of the rural population, while the return of the warm and dry weather rendered the conditions of life more favourable to those affected before by cold and wet. The provincial deathrate was now below normal, and even in the famine districts rose but a shade above it. The same conditions were maintained in June.

There was no excessive mortality anywhere in July, but fever began to reassert itself with the development of a strong monsoon, and there was cholera among the villages where it could not be treated as effectively as it had been treated in the relief camps, which the people had largely abandoned and were now being broken up. The death-rate (2.78) rose a little above the mean (2 45), and was heaviest in the most distressed tracts. August and September are always less healthy months than July, and this year saw the usual upward movement of the death-rate, but in a pronounced form. The very continuous and prolonged rains of these months in 1897, though extremely favourable to agriculture, were fruitful in malaria. Fever became extremely prevalent and naturally swelled the death-rate among a population weakened by long privations. In August the normal mortality is 273 per mille: it rose this year to 334 and in the famine tracts, where fever was very acute, it reached. 396. In the scarcity districts the rise was not so marked By September the early autumn crops were ready, food supplies had become abundant, and relief operations were being rapidly wound up. In spite of the general prevalence of a bad type of malarial fever the provincial death-rate rose only to 386 against a decennial mean of 301. In the famine districts, where the conditions were most adverse, the mortality reached 4 42 per mille. In the scarcity districts the figures rose from 302 in August to 364 per mille in September.

This autumnal fever is of almost yearly appearance; its severity varies with the rainfall: being more severe when the rainfall of August and September is heavy than when it

is light; and past experience has shown that it assumes an unusually fatal form when it comes in the train of a famine. The outbreak was therefore expected, and as soon as it appeared steps were taken to meet it by the distribution of medicines on an extensive scale. Large quantities of quinine were supplied in convenient doses to all the affected districts and distributed among the people by every available agency-free to the poorest classes and at cost price to those who could afford to purchase. Enquiry showed that the fever was not of the "famine" or "relapsing" but of the ordinary malarial type; it was not confined to the poor, but fell on all classes alike, and on all with equal effect. There are obvious limitations on the extent to which medical relief can be brought to everyone, and on the efficacy of such relief. But within those limitations the same efforts were made to avert disease which had been made to avert famine, and the mortality, though high in the most malarial districts, fell short of rates recorded during unhealthy seasons when there was no famine to aggravate the conditions unfavourable to life.

In all districts fever is assigned as the principal cause of death. This heading is very general, and probably includes most cases of pneumonic and lung diseases, so fatal to people of reduced stamina (especially the very young and very old) employed on relief works and elsewhere.

The general result was that, whereas the normal mortality in the Provinces for the decennial period previous to 1896 was 33 04, during the 12 months of famine prevalence in 1896-97 it was 36.30, giving an excess mortality of only 3.26 per mille.

An abstract of the monthly returns will show at a glance how far the mortality of the famine period rose above the ordinary death-rate in any month:—

		Entire Province		Famine di	stricts only.	Scarcity districts only.		
		Actual death-rate.	Normal death-rate	Actual death-rate	Normal death rate.	Actual death-rate	Normal death-rate,	
October 1896		8 09	8 56	274	3 49	3 81	8 69	
November	***	2 70	8 34	2.52	8*28	8 12	3 49	
December		801	8 10	8 06	2 86	8 12	8 31	
January 1897	***	8 07	2 87	8 49	2 25	2 93	2 44	
February ,		2 68	197	8 14	191	2 64	1 97	
March 1	***	811	2 18	8 60	218	8 07	2.14	
April ,	441	8 19	2 62	3 52	2 57	8 38	2.77	
May ,		2 89	3.04	8 05	8 01	2 97	8 10	
June ,		2 58	2 72	2 84	2 79	2 38	2 56	
July ,	***	2.78	2 45	8 20	261	2 52	2 28	
August		3 34	2 78	8 96	2 92	8 02	2 55	
September ,	***	8 86	8 01	4 42	8 03	8 64	8 01	
Total	***	86 80	88 04	39 54	82 80	36.58	83 26	

The death-rate, it will be seen, rose on the whole but little above the normal average in the famine months up to July, that is for 10 months it was only 29 10 per mille in the Provinces, or 180 per mille above the normal. But the death-rate increased in August and September, the

malarious season. Taking the whole period of 12 months of famine prevalence, the death-rate of 36 30 per mille may be compared with the mortality during the same period in 1893-94, when the provincial death-rate was 38 05 per mille.

The Government attaches much weight to these figures. because it can claim that in them will be found the proof that the relief organization of this famine has accomplished the object for which it was called into existence and the justification of the large expenditure which that organization has involved. That in the 12 months during which general famine and scarcity prevailed, along with the diseases which follow in their train, the death-rate should only have risen above the mean rate by 3 26 in every thousand of the population is a testimony to the success of the measures taken to secure that no section of the community should be without the means of subsistence. There can unfortunately be no doubt that some part of the abnormal mortality, however small it may have been, was due to disease induced by insufficient or unsuitable diet, and it would be rash to assert that no one during this year of trial perished from absolute want. Even this mortality would have been lessened, if not averted, had the victims roused themselves to seek or accept in time the relief which was accessible to all. The Sanitary Commissioner has thus described some of the causes which helped to swell the death-rate. Elsewhere in this narrative will be found some account of the difficulties experienced by relief officers in saving people in spite of themselves.

"Of deaths from real starvation I believe there were very few. Two factors, both very difficult to deal with, frequently operated in bringing about what might be termed an avoidable mortality. The first was the pertinacity with which the people clung to their homes even when relief works where established comparatively near. This was especially the case as regards the hill people in the south of Bundelkhand and the Allahabad district. Such people usually came on the works so reduced by chronic privation that they were unable to digestand assimilate food; and an ordinary meal often brought on dangerous, and even fatal diarrhoea. A second factor was the characteristic tendency to try and save a little money out of whatever they received. The Famine Code rations being based on what was required for fair subsistence, left little margin for such economies; and it was frequently found necessary to issue rations in lieu of wages to children and others, where the parents persisted in endeavouring to hoard up their trifling gains."

The number of deaths ascertained to be due to starvation have been recorded month by month. They amount in all to 25 deaths between September 1896 and October 1897. Each of these cases was investigated. In each the victim proved to be a wanderer, usually unknown, sometimes a migrant from some

Foreign State, who preferred a life of vagrant mendicancy and perished within reach of relief.

But though the relief measures, it may be claimed, succeeded in maintaining life, yet the reduced vitality of the people appears in the diminished birth-rate in the period which commenced nine months after the famine had set in. The statistics, set forth in full by the Sanitary Commissioner, show how the birth-rates in the distressed tracts fell off in 1897, reaching the portentously low level of 75 per mille in Banda in June—a sure indication of low physical condition in the previous October.

It is to be confidently anticipated that this low birthrate will be continued throughout 1898, if not still later a result for which some compensation is to be found in the increased provision which will thereby become available for fewer mouths. Thus the coming years should witness some improvement in the general physique and well-being of a population which will have lost in the infirm, the leprous, and diseased, but gained in well-nourished infants.

The Sanitary Commissioner draws particular attention to the small mortality from epidemic cholera usually so fatal among large collections of people and in communities reduced by privation. It is impossible to attribute this to any other cause than the extraordinary attention paid to sanitation and in particular to securing a pure water-supply on all relief works and in poorhouses. So far from these congregations of people proving centres for disease, it was often found that the disease originated in the villages and spread from them to the works. Where, in spite of the precautions detailed by the Sanitary Commissioner, cholera made its appearance, as it repeatedly did in certain districts, it was on each occasion successfully met by prompt transfer of the workers or poorhouse inmates to another locality, by isolation of the infected gangs, and by the protection and disinfection of the new watersupply. Over and over again were outbreaks of cholera suppressed by these measures on the appearance of the first few cases-measures, it may be added, which were only possible and effective because, on prevision of the likelihood of disease, they were preconcerted by the local officers. The success so attained is due to the skill and devotion to duty in combating these epidemics, shown not only by the officers of the Sanitary and Medical Departments, but by officials of all classes, both European and native, who were concerned in the relief operations. In each outbreak a European officer was on the spot generally within a few hours, and remained till the necessary measures had been carried out and proved effective. Several of the staff, European and native, have lost their lives in the resolute discharge of this duty: the unprecedentedly small mortality among the workers is their best epitaph.

CHAPTER XIII.

Some reflections on measures of precaution against future
Fammes.

This being the first important famine which has visited these Provinces since the Famine Code was compiled in its present form, it was inevitable that alterations and modifications in various portions of the Code should be suggested by the new and very extended experience now gained. This narrative has touched more than once on circumstances which necessitated some new departure from the procedure or policy of the Code; and as these changes have been approved by results it is desirable that they should be embodied in the Code for future guidance. Steps have already been taken in this direction. In all matters of administrative policy or executive detail, then, the lessons of the famine will find their proper expression in a new and revised edition of the Code, and no further reference to them need be made in this place.

But there are other matters not of detail, but of larger moment, upon which the experience of the last two years has also thrown some light and suggested reflection. Some of them are matters which he at the root of the prevention as well as the alleviation of famine, and in regard to them the Lieutenant-Governor desires to record some observations before bringing this narrative to its close.

In the forefront of all agencies which subserve the alleviation or prevention of famine stand Railways and Irrigation.

This narrative will have failed in its purpose if it has not made clear how large a part railways have played in recent years in the maintenance and distribution of the food supply, without which all the other relief measures would have been of no effect. The questions then naturally occur whether the experience of the famine period has shown any weak points in the railway system; whether any parts of the Provinces have been found insufficiently protected by railways; and if so, what is the order of urgency in which the protection should be supplied.

It cannot be said that the experience gained during the last two years calls for any substantial modification in the programme of railway construction which had been antecedently approved. So far as can now be seen, only three protective lines of railway, or rather the extension and linking up of existing lines, remain to be constructed: these are—

- (1) the Ghaziabad-Moradabad-Ramnegar line ... 150 miles.
- (2) the Bareilly-Budaun-Soron line ... 60
- (3) the Shikohabad-Mainpuri-Farukhabad line ... 80

The first of these will establish communication between the Robilkhand and Kumaun Divisions and the great Railway systems which converge on Delhi. The portion of the line between Gháziabad and Moradabad will be of great use in developing the Meerut and Moradabad districts, and will tap important and fertile tracts of country. On the Moradabad side of the Ganges it will be a protective line, and on the Delhi side a much-needed collecting agency.

From Moradabad or some other suitable point of the existing systems to the important mart of Rámnagar at the fort of the Garhwál Hills, railway communication is very much wanted. Such a line would pass through a country hitherto unopened, while it will be of the utmost service to all the great extent of hill country which the existing submontane railways are quite unable to serve.

Communication in the Kumaun division is so difficult, and carriage so costly, that neither the railway from Najibabad to Kotdwara, now completed, nor the railway to Kathgodam give any substantial help to the portions of Garhwal and Kumaun which would be supplied from Rámnagar. In the Himálayan districts, with a population fast growing in density and harvests entirely dependent on a rainfall which is not stable, imports of grain have of late years been often necessary to prevent or alleviate distress. This import is rendered expensive at any season of the year by the nature of the country to be traversed between the existing railway system and the marts at the foot of the hills, while in the rains it is almost impossible for the same reason. A railway line connecting Rámnagar with the existing system would therefore make a great difference in the price of grain to the natives of Garhwal and Kumaun.

The second extension mentioned would link up the narrow gauge systems on the north and south banks of the Ganges. It would have a high protective value on a large tract of country which caused anxiety this year, though the distress in it was much less than it was in the famine of 1877-78. The necessity of protection for this area will be recognised from the fact that, with a population of 400 to 500 to the square mile, only 7 per cent. of the crops are irrigated, and that the rainfall, which averages only 33 inches, is liable to much fluctuation.

The last railway project mentioned passes partly through a country protected by canals; but when it penetrates into the Farukhabad district, it traverses country which suffers from drought. The line, therefore, would be partly protective and partly distributive, and should be remunerative.

It is not considered necessary to enumerate among the railways, whose construction is needed, the various branches and extensions of the Bengal-North-Western system which have been recognised as necessary. These are the nexus of lines intended to supply the doab of the Ganges and Gandak, and to complete the connexion between North Behar and Gorakhpur. As it is understood that the necessity of these extensions is admitted, it is peedless to dwell here upon their advantage.

When the railways now enumerated are completed, it may be fairly said that all the substantial wants of these Provinces in the way of railway communications will have been satisfied. Of course there will still remain a large field for steam tramways and perhaps light railways through the richest tracts, especially where irrigation assures a crop in all years. But these will be distributing and remunerative lines. They are not essential for protective purposes. On the whole, then, it may be said that but little remains to be done towards completing the compulsory railway programme for the United Provinces.

If the field for railway construction is gradually contracting, so also are the possibilities for the construction of useful and remunerative canals. It may be accepted as an established fact that when the Fatehpur Branch of the Lower Ganges Canal now under construction is completed and working, there will be no more water left for any considerable extension of the canal systems drawing their supplies from the Ganges and Jumna rivers. In the opinion of the Irrigation Department of this Government, the only sources of water-supply which will then remain to the Irrigation Engineer in these Provinces seem to be the following:—

Name of river.	Source and character of water supply.
Ken river Dhasan river Tons river (Allahabad) Rámganga river Small hill streams in Balrámpur, Genda district, and possibly in Babraich Small bill streams in Gorakhpur and Bassi Small hill streams in Garhwál-Bhábay Small rivers in Bareilly district and neigh- bourhood.	Snow fed 6,000 cube feet per second generally available The Bandelthand hills, which form the northerly and lonest terrace of the Fendhyan system. Large, deep obsanels, with large flood volumes and low dry weather discharges; storage possible, with high weirs. The onter Himfiayas. Large flood volumes; low-dry weather discharge.

There are of course many more rivers in the plains of the North-Western Provinces and Oudh; but none has any considerable volume in years of drought, and the water level is generally too much below the surface of the country to allow of the construction of an economical canal.

The Sarda River project.—The Sarda river is the only river in the Provinces, after the Jumna and Ganges, which affords a sufficient and permanent supply of water: the construction of a canal system fed by it has for many years been under discussion, and several projects have been actually prepared. The original project for the Sarda canal, to cost about six erores, provided irrigation for all the Oudh districts (except

Kheri) lying between the Gogra and Ganges, and also for parts of the districts of Allahabad, Mirzapur, Benares, Jaunpur, and Azamgarh in the same doab.

This project, however, was vehemently contested by the great talúqdárs and other landlords of Oudh, their substantial objections being that irrigation was not wanted in Oudh, that if introduced it would generate fevers; and that the intervention of the Canal official between them, and their tenants would cause difficulties. In their opposition the landlords were supported by some influential and experienced officials. The opposition prevailed; and the project was dropped for a time. It was resuscitated in 1880, when drought threatened, and a modified estimate was prepared, which provided for the irrigation of the Gogra-Gumti doáb only, including the districts of Sitapur, Bara Banki, and Fyzabad and parts of Lucknow, Sultánpur, and Azamgarh. This project, which was estimated to cost $3\frac{1}{4}$ crores, was postponed indefinitely in 1883.

In October last year the failure of the crops threatened to be greater in Oudh than elsewhere, and the question of undertaking the Sarda canal as a relief work came again under discussion. The magnitude of the work, however, was so great, while the injury to the country, if a mistake were made, would be so far-reaching, that the Lieutenant-Governor decided not to enter on this great undertaking as a famine relief work without careful preliminary inquiry. But, in view of the possibility that the famine might continue for longer than a year, Sir Antony MacDonnell considered it desirable to come to some decision on the question whether a canal could be advantageously made or not. Accordingly Mr. M. King, Superintending Engineer, was deputed to enquire into the merits of the project, and he spent four months of the cold weather in doing so. Mr. King's report has not yet been finally considered; but it may here be said that, in his opinion, Sitapur, Hardoi, Lucknow, and Bara Banki are the only districts of Oudh into which canal irrigation could be profitably introduced. The facts to be deduced from Mr. King's report are, on the one hand, that the water-supply from the proposed canal would be for these four districts practically unlimited, that a canal could be made for about 41 crores, which The question of rewould possibly return 5 per cent. on the outlay;* and that these districts would be protected from the effects of drought, their wealth greatly increased, and about 265 square miles of shallow tanks

On the other hand, the report shows that there are serious, though probably not insuperable, difficulties attaching to the project, arising from the high spring level of subsoil water, nature of subsoil, and drainage. The construction of

reclaimed for rabe cultivation.

the canal continues to be viewed with disfavour by a large, though a decreased, proportion of landowners and cultivators' and there is some doubt whether adequate water-rates could be realized.

The matter is still under the Lieutenant-Governor's consideration; but the facts which have been established by Mr. King's inquiries show the prudence of the decision which rejected the work as a famine relief measure.

The Ken River project.—This project, which affects a portion of the Bánda district only, was prepared in 1876-77, and again examined in 1896, with the conclusion that it should not be taken up until the Betwa Canal had shown better results. Since then the Betwa Canal has irrigated

Of this, 31,000 acres only got a first watering; but the crops were brought to maturity by timely rain. about* 85,000 acres between September 1896 and February 1897; and as the Ken project seems likely to cost about the same as the Betwa Canal cost, but to give decid-

edly better results, it is the Lieutenant-Governor's intention to depute an officer next cold weather to revise the Ken project and bring it up to date. It might perhaps be carried out as a protective work for about 40 lakhs, and be capable of irrigating about 80,000 acres of spring crops, besides saving a considerable area of autumn crops if the rains fail in late August and September,

The Dhasan River project.—The supply of the Dhasan (Hamírpur district) fails entirely in dry seasons, and reliance would therefore have to be chiefly placed on storage. Three projects were proposed in 1869, the most practicable of which provides for 600 cubic feet per second throughout the year, at a cost of 25 lakhs. In the case of a very dry season, however, the reservoir would be emptied by the end of March, as happens with the Betwa canal. Considerable additions to the estimate of 1869 will be required, and there is little doubt that it would cost as much as the Betwa or Ken, i.e. 40 lakhs. The project is a possible one, but not so good as the Ken river project.

The Tons River project.—A canal from the Tons river in the Allahabad district was prospected for, and some levels taken last cold weather. It would water a tract of some 96,000 acres (culturable area) south of the city and station of Allahabad. There is sufficient supply in the river to irrigate, with a little aid from storage, about half of this area in a dry spring season, besides giving help to the autumn crops if the rains ceased early. But the river, which is of the same character as the Betwa and Ken, is liable to very heavy floods, and the cost of the head works would probably be almost prohibitive considering the limited area commanded. The canal would not cost less than 25 lakhs.

The Rámganga River project.—Several projects were proposed about 1869 for a canal from the left bank of the Ganges, which was to assist one from the right bank of the Rámganga There was also a project for a canal from the left bank of the latter river. These were for the irrigation of the Bareilly, Bijnor, Moradabad, and Budaun districts. They were finally abandoned in 1876 because (among other reasons) there is not sufficient water-supply at times for the existing Ganges canals, because the spring level is generally near the surface, and temporary wells can be made cheaply in many places; and because canals from the Rámganga would cost a very great deal in comparison with the results they would be likely to produce. From this it is apparent that the prospect of irrigation from the Rámganga is not hopeful.

There remain the possibilities of irrigation from small hill streams; but it is unnecessary to consider these in detail. Such irrigation, though beneficial to the lands served, must, without very costly reservoirs, always be on a small scale; moreover, the water level near the hills is generally near the surface; and the irrigation from these streams can have but slight effect on the general food supply, while it raises intricate questions of private rights which often militate against effective and prompt action.

It may be added, however, that this source of irrigation has not been neglected by Government, wherever it can control the course of the streams, as in the Kumaun Tarái. Even further away from the hills—as in some of the Rohilkhand districts—small rivers are more or less utilized for irrigation under Government control. From time to time a river is taken up and the system of irrigation improved; but, it is repeated, the improvement in this direction can only be in a small way.

To recapitulate. The Sarda scheme, which is one of great magnitude, has been lately enquired into and reported on, and is under consideration. The Ken project, costing about 40 lakhs, seems likely to be a useful protective work, and the estimate will now be brought up to date. The Dhasan project will be further examined should the construction of the Ken canal be put in hand. The Tons scheme is too expensive for the small area commanded. The Ramganga schemes give no promise of success. There are no other considerable sources of supply; but improvements and extensions, in a small way, will continue to be made in submontane tracts.

The preceding observations show that, in the Lieutenant-Governor's opinion, there is not, if the great Sarda canal scheme be excluded, much scope in these Provinces for further extensions of canals. Without prejudging the conclusion he may come to on a further careful and leisurely examination of the case, Sir Antony MacDonnell is not

sanguine that the Sarda project will be practicable. If not, then the best hope for an extension of irrigation lies in the construction of wells. Sufficient reference has already been made to the great benefit which in a single year has resulted even from temporary wells. From masonry wells, which command a perennial water-supply, the advantage is increas-ed manifold. It should be the declared policy of the Administration to promote the construction of those wells. The construction of them should be actively encouraged by the grant of liberal advances. It has been alleged in some quarters that the state of the law of landlord and tenant discourages the making of wells-of all agricultural improvements the most necessary and the most within the tenant's reach. This is a matter which calls for examination with a view to the removal of obstacles to investments of capital which cannot fail to be beneficial to both landlord and tenant.

During the last two years the incidence of the Government assessments of land revenue upon the cultivated area has constantly engaged the Lieutenant-Governor's attention. It has been stated in some quarters that the condition of the cultivator has been, of recent years, changed for the worse by reason of excessive increases in the Government revenue, and that his power of resisting the pressure of adverse seasons has been proportionately diminished In the following chapter reasons will be given, based on the experience of the present and previous famines, in favour of the view that, generally speaking, in these Provinces the cultivator's power of resistance has not decreased within recent years, but has improved. Still it was desirable to ascertain whether, in the Bundelkhand region especially, the acuteness of the distress might not, to some extent, have been aggravated by local and exceptional circumstances connected with the land revenue assessment.

From the personal experience of settlement operations on a large scale which the Lieutenant-Governor has had since his assumption of office in these Provinces, he is satisfied that the principles upon which the Government share of the assets of landed property is assessed are reasonable and sound, and that the various settlement authorities in carrying these principles into effect act fully up to the spirit of their instructions. But it may have happened that settlements concluded several years ago, during the eycle of prosperity, have become harsh and onerous in the adverse seasons, which have recently visited the Provinces. It is with the view of ascertaining whether, in any particular locality, the assessments of the past have fallen out of harmony with existing conditions that the Lieutenant-Governor has directed a special inquiry to be made. This special inquiry is now being conducted in the Bundelkhand region. It will, if necessary, be extended to other tracts in which the famine has been most acute; and its objects will be to discover what the exact condition of things is and whether within recent years there has been any agricultural depression which can be fairly attributed to other than merely climatic causes. Should this inquiry bring to light that the assets of landed property have seriously decreased, either permanently or owing to temporary causes, and that the Government demand presses heavily on any estates, then a suitable remedy will be applied

Only one word more remains to be said in this brief summary of questions which have, during the recent relief operations, attracted the Lieutenant-Governor's attention. The lesson which, above all others, famine experience teaches is the necessity for timely preparation. It is impossible, therefore, to exaggerate the importance of maintaining, from year to year, a careful watch on the character of the seasons, on the nature of the harvests, and on the condition of the people. Opportunity for insisting on this matter was recently taken by the Government of these Provinces in connexion with an interesting note on agricultural depression recently submitted by the Director of Land Records and Agriculture. It is the practice for District Officers to submit annually reports regarding agricultural prosperity or deterioration which are or should be based on the facts recorded in the agricultural registers maintained by the local kanungos or revenue supervisors. Commenting on the shortcomings of such reports, the Government made the following remarks:-

"It is desirable that steps should be taken to derive full advantage from the information that is contained in these reports, or that should be found in them if they were properly compiled. They should, in the opinion of the Lieutenant-Governor and Chief Commissioner, embody the experiences of the individual districts during the years to which they The history of past years shows that the climatic conditions of the province vary considerably from year to year, and yet that all these variations have been generally experienced at some time or other within a cycle (the length of which has been differently estimated by various authorities), after which they repeat themselves. In other words, an accurate account of the agricultural condition of the province and its individual districts for that cyclical period will afford instances of all the various forms of depression affecting a district, either as a whole or in part, to which that district is ever likely to be subject. If, then, these records of the annual history of a district for the whole period of such a cycle of years be compiled with accuracy and intelligence, and so collated as to form a connected and intelligent account of the agricultural history of the district for that period, we should have for all time a valuable and useful guide for Government and for the district officials to the weak points in the agricultural prosperity of each district, and more especially regarding the manner, the extent, and the prouse localities in which it is affected by climatic variations. With this object in view it is not sufficient that these records of a district's vicessitudes should be found in annual reports. They should be carefully examined by the Director of Agriculture; where from any cause they are defective, the defect should be rectified at once; the significance of the records of one year compared with its predecessors should be noted; and after every five years all the reports should be collated and

the inferences or results set forth in a clear light. Thus a manual of the agricultural conditions of each district might, in time, be compiled, which would be invaluable to Government and to all officers to whose charge the district is entrusted in future.

"The two great dangers to which the agriculture of this country is exposed are undoubtedly flood and drought. The evils resulting from either one of these calamities have the effect of blinding the observer for the time being to the disastrous effects of the other. There are in most districts portions in which floods are the more serious evil, and to which a dry year brings relief; there are other portions in which drought has the more serious effect for evil; and yet again other parts, such as the bhur tracts, which suffer almost equally from excesseive or from deficient rain. It is, on the other hand, fortunate that what is a serious evil in some portions of the province carries with it some compensating advantages in other parts. But with a careful and intelligent account of the effect of the climate on every district and its component parts, an account based on actual experience extending over a cycle of years, it is hardly possible that any climatic danger could overwhelm a district and take by surprise those who are responsible for its administration without their being prepared for the evils they would have to face and guided as to the measures they should take to counteract them."

It is believed that the adoption of the system indicated in the preceding extract will place a District Officer in a position to know well beforehand what he has to expect, and thus enable him to advise the Government as to the future, and to take these timely precautions which prevent surprise and thereby rob a famine of something of its terrors.

CHAPTER XIV.

General considerations regarding the condition of the people, and the power of resistance to distress displayed by them. Conclusion.

ALL inferences as to the economic condition of the Provinces must no doubt be qualified by the extent and effectiveness of the relief system; but discounting this, the belief may fairly be entertained that the agricultural classes were not without resources which enabled them to oppose on this occasion an unwonted resistance to an unprecedented pressure. For this belief many reasons can be given. In the first place, this famine period was free from that general lawlessness and disorder which characterzed the famines of the earlier part of the century. Without labouring a comparison or insisting on conclusions from statistics which are often too imperfect to admit positive conclusions, it may be said that the narratives which have been preserved of the earlier famines down to the famine of 1837-38*-both before and immediately after the

The official record of this famine states as follows —

"The bagnining of trouble in 1837-38 was marked by a spirit of lawlessness and freebooting throughout the country Neither the stores of the merohant nor the grain in transit was safe from attack. The starving people forgot all rights of possession, and violently laid their hands on their neighbours' supplies. In almost every district a larger police force had to be antertained, and this item added in no small degree to the burden of Government."

introduction of British ruleleave no doubt as to the social conditions which prevailed at such times Each story is one of rapine, plunder, and desolation: the strong preying on the weak, the effacement of law and order, and the wholesale abandonment by the people of the tracts of country in

which famine existed The contrast between the past and the present is wanting in minute detail; but the broad lines are clear and unmistakeable.

Again the history of the earlier famines shows them to have been invariably accompanied by migration on a large and organized scale from the distressed tracts. As soon as the crop failure and the exhaustion of food supply were declared, a movement of the population set in towards those parts of the country where either the information or the traditions of the people led them to expect that food and work could be found. Such records as exist of famines which occurred in the last century or in the early part of this century show that whole tracts of country were thus left desolate by the withdrawal of a large part of the population, and that the affected districts took years to recover from the loss of their population.

This feature of famine times was conspicuously noticed as late as 1837. In 1860-61, and again in 1868-69, extensive movements of the population were observed either in the

shape of migration from one part of the Provinces to another, or of emigration from the affected parts of these Provinces towards the country lying outside, or the immigration from Foreign States of people attracted either by the greater prosperity or by the existence of relief measures in this territory. Even in 1877 there was much migration and wandering of the people within the Provinces, and there was a very noticeable movement of emigrants from Native States into or through certain British districts. In strong contrast with this characteristic of previous famines was the entire absence during 1896-97 of any organized movement among the people, or even of desultory wandering on any noticeable scale.

The foregoing narrative has, indeed, shown that a substantial number of emigrants from Native States found their way to the relief works and poorhouses of parts of these Provinces; but even here there does not seem to have been any concerted or considerable movement of the population of these States. It is true that on this occasion there was no general failure of fodder, and therefore that incentive was wanting which leads pastoral or agricultural communities to wander in search of pasturage for their cattle. This, however, goes but a small way towards explaining the unusual stability displayed by the population on this occasion. A fuller explanation is to be found in the measures of Government which encouraged the people to settle quietly in their homes under the assurance that they would receive such protection and support as theresources of Government could extend to them Undoubtedly this tranquillizing influence had very great effect; but with full consideration for all these exceptional circumstances, it is probable that, unless there had been some very substantial improvement in the economic conditions of the Provinces, the migrations in search of food and labour, which characterized earlier famines, must have been repeated, even though on à diminished scale.

Another argument in support of the growing substance and wealth of the people is to be found in the rapid recovery of agriculture, which characterizes recent famines. This recuperative power has been of gradual, not sudden, growth. In the absence of agricultural statistics it is impossible to formulate a precise comparison; but from such general accounts as exist some inferences may be drawn

The contemporary accounts of the condition of the country show that the famines of 1783 and of 1803-4 were followed by waste and desolation, which ensued from the exhaustion of agricultural stock and agricultural labour.

Colonel Baird Smith, a competent investigator, has ascertained that—

"the famme of 1837 so affected the agricultural prosperity of the affected districts that the stamp of this terrible famine remained uneffaced in the

Agra division by the lapse of two-and-twenty years, and that the State received from that division less revenue by an aggregate amount of Rs. 1,32,85,000 than it would have done had it been possible by any expedients to have warded off the catastrophe"

In 1861 the recovery was more rapid, but the country affected in the North-Western Provinces (about 10,000 square miles) was comparatively small and the adjacent regions had good crops.

In 1868 these Provinces "felt only the fringe of the famine" and naturally soon recovered from its after effects.

In 1877 the famine, it is true, was not preceded by "" The seasons of 1874, 1875, and 1876 were favourable in the North-Western Provinces and Oudh, and the harvests in the North-Western Provinces and Oudh, and she harvests of those years were considerably above the average. The stocks depleted by the drought of 1878 and the drain to Behar (in 1874) were thus replemished, and became sbundant and cheap, prices being lower than they had been for more than 20 years"—Indian Famme Commission's Report, page 191.

years of scarcity;* but the distress was severe while it lasted. Its effects were not so much mani-

fested in the spring sowings, which followed it immediately under favourable conditions, as in the kharif sowings of the following year These showed a decrease of 3 per cent. under the normal cultivation. There was therefore some deterioration.

It would be too early to attempt an estimate of the future effects on the Provinces of the trial, the severest within the century, through which they have just passed; but it is possible to observe the unprecedented rapidity with which agriculture is recovering as soon as natural conditions permitted its resumption. The great failure of the autumn harvest of 1896-itself preceded by several bad years-was succeeded in 1897 by a rabi which gave only 60 per cent. of a normal outturn. Yet there is, throughout the Provinces generally, no trace of the desolation and loss or deterioration of cultivation or exhaustion of agricultural labour which followed those earlier famines. On the contrary, the Director of Agriculture, reporting on the 9th November 1897, says-

"The area under the kharif (autumn) harvest is now calculated to be 31 per cent. above the normal, and there has been virtually no crop failure anywhere. The outturn is (with the exception of two doubtful districts) given as from 14 to 16 annas, and several District Officers go up to 17 and 18 annas. An exceptionally fine harvest has been secured over all the Provinces in an abnormally full area.

"The cane crop, as already mentioned, is above the average except in parts of Rohilkhand, where a 13 and 14-anna crop is estimated. For the *ab* (spring) harvest it would be premature to make any forecast, though by all accounts a fully normal area is being sown."

This statement of the existing condition of agriculture goes to show that the people have resumed the usual tenor of their lives with energy, undemoralized by the hardships or the incidents of the preceding year. The only circumstance which has come to the Lieutenant-Governor's notice tending to suggest deterioration is the cultivation in certain tracts of a larger area with oil-seed instead of the more valuable wheat, owing to the dearness in the price of wheat for seed and the comparative cheapness of the oil-seed. But even this circumstance affects only the most distressed part of the Allahabad division and it needs confirmation: on the whole there would seem to be no substantial deterioration, and this fact would seem to indicate an improvement in the resources and in the resisting power of the population.

Any estimate of the economic effects of different famines is necessarily obscured by the success of relief measures in modifying or averting those effects. It is constantly necessary, therefore, in comparing the condition of the period during and after the present and past famines, to remember that relief was, upon the present occasion, distributed in a complete and effective form, for which no previous parallel can be found in these Provinces. What would have happened had relief measures not been initiated before distress appeared and developed as it expanded, must remain largely a matter of speculation. To this modifying influence the further qualifieation must be added, that modern improvements in communications and the canal irrigation have completely altered the economic conditions in these Provinces. Reference has already been made to the effects of the system of irrigation in protecting the country from drought and promoting cultivation. The influence of improved communications has been even more important and more general. Railways have opened new markets, made the surplus of one region available to supply the deficiency of another and stimulated the cultivation of more valuable staples. Cultivators have obtained a certain market and an enhanced and stable price for their produce. Grain which, in seasons of plenty, used to rot in the fields or perish by waste or deterioration before it could. be consumed, has become a profit to the producer and an addition to the general resources of the country, in which more of it seems to be consumed than used to be the case or than can be attributed to the mere growth of population. Ignorant or short-sighted alarmists find in these movements of trade proof that the resources of the country are being dangerously exhausted by the new facilities for carriage. The experience of this famine—a famine of slow growth, wide extension, and great severity, and therefore a crucial test of the subject under notice—has shown that large stocks of food are still kept in reserve in accordance with immemorial practice, and that the same facilities which permit the export of a surplus enable the consumers in times of scarcity to supply deficiency by import.

All observers are combined in thinking that the high prices of recent years, together with the increased facilities for transport, have enabled the cultivating classes to derive much profit by the sale of their surplus produce. This has

added to their wealth, and enabled them to improve their general standard of living. How long this improvement will last, how long the surplus which makes it possible will continue to be produced, depends on the growth of population, the progress of agricultural improvement, the maintenance of moderate taxation, and finally on the advance of general enlightenment. Into speculations on these interesting subjects the Lieutenant-Governor will not now enter; but he has faith in the future, in the people, and in the equity and resource-fulness of British statesmanship.

But, if we may hopefully regard the prospects of agriculture in these Provinces, there is another and a less pleasing aspect of the case. Beyond the cultivating classes there is a large and growing section of the community who subsist by day labour, whose wages have not generally risen with the rise in prices. It would be incorrect to say that this class has appreciably shared that improvement which the cultivating classes owe to extended irrigation, better communications, and higher prices.

During the present famine the vast bulk of the recipients of relief were persons of the labouring class. Cultivators or their families were found in fewer numbers upon relief works, and scarcely ever entered the poorhouses. Even the gratuitous village relief was very largely bestowed on the helpless families of day labourers and artizans. The form in which pressure upon the cultivating classes chiefly manifested itself was in the unusual share which they themselves and their families took in field work, for which they had been accustomed to employ hired labour. In those districts which escaped crop failure the pressure fell almost exclusively upon the town population, to whom the high prices of agricultural produce brought only distress. Yet even in such tracts the general prosperity which prevailed enabled such classes, largely artizans, to find employment and subsistence without recourse to State or charitable relief.

The general conclusion, then, which the Lieutenant-Governor is disposed to draw is that the cultivating classes, whether tenants or proprietors, have displayed in this famine a command of resources, either in the shape of capital or credit, and a power of resistance, which have not been paralleled in any previous period of scarcity; but that this improvement has not been materially shared by the labouring classes. The labouring classes would probably have suffered more severely than before but for the extensive and elaborate measures organized by Government to assist them.

Perhaps some encouragment for the future may be found in a movement, which has set in, of labour from the congested districts in the eastern part of the Provinces towards Assam and Eastern Bengal, which have become accessible by

the extension of railways If relief is not found in emigration of this sort it is difficult to see from what direction relief is to come. For industrial enterprises are of slow growth, while the waste tracts within the Provinces suitable for cultivation are no longer considerable, and further extensions of canal irrigation are limited by the appropriation of all the chief sources of water-supply.

CONCLUSION.

THE story of the famine has now been told. The foregoing narrative has explained how the disasters of four successive years so reduced the resources of the people that in the worst afflicted tracts famine asserted itself in the summer of 1896: it describes how the failure of the rains in 1896 intensified that famine, and extended it over large tracts that had so far struggled against the adversities of the seasons: it sketches the organization created to bring relief in suitable shape to all classes of the famine-stricken population: it tells how the famine grew in extent and acuteness through the winter months of 1896-97, and how the relief was developed to meet the increasing distress: how the spring harvest of 1897 lightened the pressure in all but the worst districts, and how the advent of the rains brought about new conditions favourable to the people, but necessitating new dispositions to meet them: it shows how the pressure slowly relaxed as the field of agricultural labour reopened with the progress of the rains, and how it disappeared as a bountiful autumn harvest replenished the food stores of the Provinces and rendered it possible to wind up, by cautious steps the various relief measures which had for many weary months been the sole resource of hundreds of thousands of destitute people. The operations of the Department of Public Works have been described with the necessary technical detail, and the other agencies which co-operated in the work of relief have been portrayed and their results exhibited. The question of prices and food supply has been examined; the movement of crime has been measured, and the law-abiding character of the great mass of the people has been acknowledged; the possible extensions of the Railway and irrigation system have been glanced at, and the need of preparation and foresight in connection with seasonal changes and agricultural gain and loss has been adverted to.

Some effort has been made to illustrate the social and economical condition of the people, their resources and their power of resistance to natural calamities, by comparison with previous famines and their consequences to the community; and, finally, the state of public health during the famine period has been stated and cited as the test and crown of the great and complex organization whose object was to preserve human life.

The statistical results of the various forms which the relief measures took have been duly exhibited, and it is not necessary to repeat them here in detail. But by way of final summary it may be said that the famine and scarcity extended with various degrees of intensity over an area of more than 72,500 square miles with a population of 34½ millions. Beyond this lay an area, co-extensive with the Provinces, within which the pressure of high prices fell heavily on all, and particularly on the labouring classes.

The relief measures, which commenced in Bundelkhand in March 1896, continued till the middle of October 1897. The number of persons who received support for one day amounted to 304 millions of people in round numbers, or if the relief given from the Indian Charitable Relief Fund be included to about 334 millions, a total which is nearly equal to the population of the United Kingdom, of India and the October 1897 gives the population of the United Kingdom. This is equivalent to a daily average of 1,688,000 persons supported for six months.

The cost to the State (all charges included) amounts to two crores and 17 lakhs of rupees or £1,400,000 at the present rate of exchange. Each person supported represents a daily charge to the revenues of 13 pies or '07 of a rupee.

The indirect loss in the remission of land revenue has been already stated at 60 lakhs of rupees. The famine has also had injurious effects in various other sources of revenue, such as Excise, Stamps, and Income Tax. It will not be possible to state the loss in these departments until the year's accounts are balanced; but the probability is that it will be covered by about 25 lakhs.

Thus the direct and indirect cost of the Famines of 1896 and 1897 to the Government of India may be put at about three crores of rupees, or two million pounds sterling at current rates of exchange.

In 1896 the death-rate for the United Provinces was 33 32, and for the 12 months—October 1896 to September 1897—during which the famine prevailed, the rate was 36 30 per thousand of the population. The similar rate for the previous decennial period was 33 04.

In these few figures is concentrated the history of a series of great calamities mitigated by efforts which taxed all the resources of the Government and all the energy, skill, and devotion of its officers. They represent much suffering borne with submissive patience and quiet endurance by the people, and great difficulties overcome, under Providence, by the unwearying toil, the humanity, and the patient resolution of a great body of workers.

It is, perhaps, too soon to make a proper estimate of the political effect of the measures by which Government exerted itself to save its subjects from the effects of this famine. Some officers report that there are no noticeable manifestations of gratitude. Other officers, and these not the least observant, give an entirely different opinion, and say that the feeling of gratitude is deep and widespread among all classes. An observant European officer, noticing the confidence with which the children, at first timid, now meet advances, writes as follows: "The utter confidence of the children" (in the Government official) "is a curious and very touching thing to see. Young "lads and children have keen ears and close memories. Their "looks and manners are the surest indication of what "kind of pictures their parents paint in their home talk. The "pictures must be in warm and glowing colours."

A most trustworthy native officer says that in his district the feeling of the people finds expression in the saying that the Sarkár has saved them from ruin like that of a Bharat. A Bharat is that war of universal desolation which is familiarized to the Hindu mind by the great Hindu epic.

It has already been noticed that the ballads of the Holi festival, last March, sang, in rude verse, the story of the bountiful charity that was being then dispensed. The songs of the people disclose their thoughts.

The Lieutenant-Governor believes that the relief operations now closed have inspired a feeling of gratitude and confidence; and his hope is that this feeling will grow and endure when the vicissitudes of the struggle are over and the return of prosperity allows the people to fully realize the nature and extent of the efforts made in their behalf during the time of the trial. Of all the measures by which relief was conveyed to those who needed it, the one which most profoundly impressed the people was the system of gratuitous outdoor relief. Outdoor relief at the homes of the people did not merely preserve life and mitigate those material hardships which are inseparable from other forms of relief. It also respected those customs, feelings, and prejudices-half estimable, half pitiful-which are often dearer than life itself to those whom Government undertook to protect. The people were struck both by the benevolence of the motives which inspired this kind of relief, the generosity with which it sought no return, and the immense and elaborate organization created to administer it. They found in it a type and a proof both of the power and resources of the Government and of its humane care for even the feeblest of its subjects.

The very magnitude of the relief operations would make them impressive.

A two-fold duty alone remains for the Lieutenant-Governor to discharge. One is to express the grateful acknowledgments of this Government to the Governor-General in

Council for the constant encouragement, consideration, and support which he has accorded to it in the fulfilment of its task. The second duty is to place on record this Government's appreciation of the services which have secured the success of relief measures during this memorable year. It is difficult for the Lieutenant-Governor and Chief Commissioner to express his sense of the greatness of these services; but he has endeavoured in a separate proceeding to set forth the names and services of those officers of Government and private gentlemen to whom he is most beholden for sustained and effective work. When almost every officer of Government, each in his own grade and sphere, has rendered good service, it is not an easy task, nor one free from suspicion of invidiousness, to single out individuals for special mention. But the excessive severity of the distress in particular districts threw upon the officers posted there an enhanced degree of responsibility and an increased burden of hard work which did not fall to the share of their colleagues in other districts. The officers, thus tried by circumstances of the greatest difficulty and danger, have exhibited a zeal, self-sacrifice. and resourcefulness in meeting difficulties, which have been worthy of the best traditions of their services; and the Lieutenant-Governor tenders to them his special thanks. The most prominent are-

Of the Civil Service of India-

Mr. A. W. Cruickshank, Commissioner, Allahabad Division.

- " H. C. Ferard, Collector of Banda.
- ,, D. Calnan, Collector of Jalaun.

Of the Public Works Department-

Mr. C. G. Palmer, Superintending Engineer, Allahabad Division.

Colonel R. R. Pulford, C.I.E., R.E., Superintending Engineer in Oudh.

Of the Medical Department-

Surgeon-Lieutenant-Colonel Thomson, Sanıtary Commissioner.

The Lieutenant-Governor desires also to mention in this place the name of Mr. C. W. Odling, the Chief Engineer and Secretary to Government, who during the two famines powerfully contributed to the success of the operations of the Department of Public Works which, under the orders of Government, he directed.

Among the many non-official workers in the great charitable field, the Lieutenant-Governor would take the liberty of specially mentioning the name of Miss Hewlett of the London Mission, whose self-sacrificing labours among the poor at Mirzapur attracted his particular attention.

The names of the native noblemen and gentlemen who have helped the Administration by active personal assistance or in other ways have been recorded with suitable

acknowledgments in a separate minute; but here the Lieutenant-Governor desires to acknowledge the great benevolence displayed during the year by His Highness the Mahárája of Benares.

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Revenue and Agricultural (Famine) Department.

Ordered also that a copy-be published in the Government Gazette, North-Western Provinces and Oudh, for general information.

T. STOKER,
Secretary to Govt., N.-W. P. and Oudh.

GOVERNMENT FOF INDIA.

DEPARTMENT OF REVENUE AND AGRICULTURE (FAMINE).

NARRATIVE

OF THE

FAMINE IN INDIA

IN

1896-97.

BY

T. W. HOLDERNESS, I.C.S,

DERUTY SECRETARY (FAMINE) TO THE GOVERNMENT OF INDIA.

Presented to both Houses of Parliament by Command of Her Majesty.



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NARRATIVE OF THE FAMINE OF 1896-97.

1. The account given in these pages of the famine of 1896-97 has no claim to be more than an imperfect sketch put together from incomplete and scattered materials. For a complete review of the subject the reports of the Provincial Governments are required, and some time must elapse before all of these are ready. Famine operations have nearly closed in Bengal, the North-Western Provinces and the Punjab. But in the Central Provinces the relief of distress still occupies the energies of the local administration, notwithstanding that agricultural prospects there are excellent; while in Madras, Bombay, and Burma the protraction of the period of drought till the end of August makes it at present difficult to say when relief operations there will completely terminate. It is thought that a general account of the famine will be of some interest while its events are still fresh, and that a detailed discussion of the measures undertaken to combat it and of the questions of administrative policy which arose from time to time during the progress of these measures may be postponed until more complete information is available.

I.-The cause of the famine.

2. The cause of the famine of 1897 was the early cessation of the autumn rains of 1896. The south-west monsoon was late in establishing itself in June 1896 on the West Coast, and from its first appearance was ill-distributed and fitful in character. Throughout July the rainfall was more or less deficient in Bengal and Central and Northern India, and gave rise to apprehensions. In August the monsoon appeared to have recovered strength, and frequent cyclonic storms gave heavy rain to the Central Provinces, Central India, and Rapputana. Elsewhere in Upper India the rainfall was in defect. Early in September the hopes of an improving monsoon were disappointed. The rainfall was in large defect over by far the greatest part of India, and was in excess only in East and North Bengal, South India, and Lower Burma. During this month interrevable injury was sustained by the rain crops. In the North-Western Provinces and Oudh the average rainfall in September is from 5 to 8 inches, being lowest in the west and highest in the east. In September 1896 no division of the provinces received more than 1 inch, and in most the fall was considerably less. In the Punjab the fall was under half an inch east large was the hill divisions, against an average of 3 to 5 inches. In the Central Provinces less than half an inch fell in the western and central tracks where the average September rainfall exceeds eight inches. Berar received '38 of an inch against an average of 5 '53 inches, and in Khandesh '96 of an inch against an average of 5 inches. In Bengal and Behar the defect was less, and but for the cessation of the south-west monsoon early in the following month this part of India, the Central Provinces, or Berar. In the Bombay and Madras Deccan India, the Central Provinces, or Berar. In the Bombay and Madras Deccan India, the Central Provinces, or Berar. In the Bombay and Madras Deccan India, the Central Provinces, or Berar. In the Bombay and Madras Deccan India, the Central Provinces, or Berar. In the Bombay and Madras Deccan India

the yield of the rice crop is returned at 9½ million tons against 20½ millions, a loss of more than half the crop.

The early withdrawal of a weak south-west monsoon was followed by a still weaker north-east monsoon, on which the eastern and central districts of Madras chiefly depend. In the central districts only '36 of an inch fell in October against an average of 5.21 inches; and along the East Coast the deficiency was still greater.

- 3. Thus the month of October closed with the entire Indian continent face to face with the most wide-spread failure of the rains and the gravest impending famine of the century. From this extreme peril it was rescued by most opportune and unlooked for rain in the succeeding month.
- 4. In the first week of November scattered showers fell in the Punjab and Southern India, which were followed by continuous heavy rain over the central and southern divisions of Madras. In the middle of the month there was good rain in the Bombay Presidency, and this extended to the Central Provinces, Berar, Mysore, Hyderabad, the North-Western Provinces and Oudh, Central India and Rajputana, Behar and Bengal. Outside the Madras Presidency and the Bombay Deccan the amount of rain registered in most tracts was under I inch, but it enabled cold weather crops to be very largely sown on unirrigated lands with fair hope of the seed germinating. In the Bombay Deccan considerably over 1 inch of rain fell, in Mysore over 2½ inches. Thus the effect of the November rain was to confine serious crop-failure in the Bombay and Madras Presidencies to the relatively small and sparsely populated area of the Deccan districts, and to secure a cold weather crop in Central and Upper India—scanty in extent, it is true, and sown under unfavourable conditions, but still sufficient to very materially supplement the depleted stocks of the country. From November the scarcity, though serious, shrank within measurable dimensions.
- 5. The month of December was as abnormally wet as November. Fairly general rain in moderate amounts, aggregating about 1 inch or less, was recorded during the month in most provinces, enabling sowings to be carried on to the end of the year and greatly benefiting the crips already sown. In the Deccan country and in the Nizam's Dominions the falls were very slight, and in this part of India the crops sown after the November rain as a rule absolutely failed. But elsewhere the month closed with better prospects for the sown lands than were thought possible in October.
- 6. These prospects were maintained by light to moderate rain in many parts of Upper and Central India during January and February. In the latter part of February and the beginning of March hot winds did a good deal of damage to the crops on unirrigated lands, and anxiety was felt lest they should be completely dried up before maturity. But in the middle of March the approach of the hot weather was arrested by frequent storms. Rain fell in good quantities in North Behar, Central and Upper India, greatly benefiting the ripening cold weather crops and permitting extra crops of early millet to be sown in many places. The Bombay and Madras Deccan continued rainless.
- 7. In April the cold weather crops were reaped in Behar, the North-Western Provinces and Oudh, the Central Provinces and the Southern Punjab, and agricultural operations throughout the greater part of India ceased for the time, and the absence or presence of rain became of little consequence. In the North Punjab, where the cold weather harvest is later, good rain fell during the month and improved the crops.
- 8. With April the second period of the scarcity may be said to have closed, as the first period may be said to have closed in October. With May another agricultural year opened, and another phase of the situation commenced. The month was favourable for Bengal and Lower Burma. Southerly winds from the Bay gave good rain in these parts and sowings of early rain crops commenced. But no advance of the south-west monsoon was reported in Southern India, and the first week of June passed before it appeared on the Ceylon coast. In the middle of June more favourable conditions appeared. Rain was received throughout India, and the monsoon winds blew strongly on the west coast and

across Central India. But this strength was of short duration. In the second half of the month the rainfall everywhere fell off, hot winds began to blow, and hot weather conditions seemed to be re-established. This period of great anxiety lasted into July. In the first week of July a marked improvement occurred, and by the middle of the month ordinary monsoon conditions were established in Upper India, though the rainfall was light and the Bombay and Madras Deccan received only scattered showers. At the end of the month conditions still further improved, and during August heavy continuous rain fell in Bengal, the Central Provinces, the North Western Provinces and Oudh, the west coast districts of Bombay, Rajputana and Central India, extending in the middle of the mouth to the Punjab.

9. September opened with excellent agricultural prospects in every part of India excepting in the "dry zone" districts of Upper Burma, the Deccan districts of Madras and Rombay and protions of the Nizam's dominion. During

19. September opened with excellent agricultural prospects in every part of India excepting in the "dry zone" districts of Upper Burma, the Deccan districts of Madras and Bombay, and portions of the Nizam's dominions. During the first fortinght of the month good rain fell in these excepted areas and agricultural prospects greatly improved. Such of the early sown rain crops as had escaped the drought revived, and sowings for the later crop have been vigorously prosecuted. Over much of the Deccan, specially in the heavy "black soil" tracts a very large area is not sown even in ordinary years until the heavy rains of August and September. There is thus still time for the Deccan by means of a late harvest to retrieve its fortunes, though the return to lower prices and abundant food supplies will be postponed, and relief will have to be administered for a longer period than was anticipated. Elsewhere the September rains have been favourable, assuring not only the fast ripening autumn harvest but also successful sowings for the cold weather crops. The disappearance of famine is now a question merely of weeks.

II .- The areas and populations affected.

10 It is impossible to exhibit in a statistical form with any approach to accuracy the areas affected by the almost universal drought and failure of crops which occurred in 1896-97. If the extreme south of the Peninsula and Lower Burma and such exceptional tracts as the Meerut Division in the North-Western Provinces, the Chenab irrigation colonies in the Punjab, and Sindh be excluded, a bad or indifferent autumn harvest and short sowings for the cold weather crops were chronicled almost everywhere. Where the deficiency was not very crops were chronicled almost everywhere. Where the deficiency was not very great and where past harvests had been bounteous, the agricultural classes have passed through the ordeal with tolerable ease, and in exceptional cases have actually been gainers by the high prices which their surplus grain-stocks have commanded. But everywhere the stress of high prices has been felt by the urban population, by the landless farm-labourers in rural tracts, and generally by all persons in receipt of small fixed incomes. The figures given below which have been compiled from the monthly famine reports of Provincial Governments and Native States refer to those areas only in which distress was Governments and Native States refer to those areas only in which distress was so general and pronounced as to require relief operations to be undertaken by the State. In many cases these areas comprise fractions of a "district," the ordinary unit of Indian administration. One-half of a district may have been able to weather the storm without relief works or poor houses and with only such assistance as is afforded to the agricultural classes by temporary suspensions of the land-revenue demand; while the other half, through greater deficiency of rainfall or absence of irrigation or peculiarities of crops, has required the relief provisions of the Famine Code to be brought into effect. The division into distressed and non-distressed tracts is thus in a measure arbitrary, and the statistical result is to narrow the area affected by the drought. The distinction between severely and slightly distressed tracts is also an uncertain one, and the table below does not pretend to accuracy in this respect. It has more than once happened that a district has passed during the scarcity from the slightly affected to the severely distressed state, and back again to the former class on the harvesting of the cold weather crops. There is no clear criterion of this distinction, and more often than not the distinction is ignored in the provincial returns. In the observations which follow the table an endeavour is made to indicate, so far as the information permits, the areas in which acute or severe distress prevailed.

I.—British India.

	_			Total area of districts in	Total	Distress	ed area.
	Province			which distress prevailed	population.	Area.	Population.
Madras .		•		Square miles. 27,106	3,700,000	Square meles. 15,000	2,000,000
Bombay .				48,179	8,013,000	33,000	5,500,000 {
Bengal .				54,771	24,728,000	26,000	11,200,000
North-Wester	a Provinc	es and	Oudh	43,348	19,586,000	35,000	14,000,000 {
Central Provi	ices .			87,086	10,811,000	52,000	6,500,000
Punjab	•	,	•••	19,857	5,366,000	13,000	3,500,000
Burma	** **			10,449	776,000	5,000	500,000
Berar				15,094	2,580,000	15,000	2,500,000
	TOTAL			305,890	75,560,000	194,000	45,700,000

Also 8,000 square miles affects with population 2,500,000 Also 9,000 square miles affects the population of the square miles affects affects with population affects affects with population with population of the square miles affects affects with population of the square miles affects with a square miles affects with population of the square miles affects with a square miles a

II .- Native States.

	Stat	e			Total area of States	Total population	Area affected	Population of area affected.		
Hyderabad	***			•••	82,698	11,537,000	9,000	1,219,000		
Ce	ntral	India						1		
Gwalior					13,024	1,944,000	4,200	771,000		
Baghelkhand					14,676	1,776,000	14,500	1,778,000		
Bundelkhand		•			9,924	1,424,000	9,900	1,428,000		
1	<i>Газри</i> і	tana.								
Bhurtpur					1,974	639,000	1,300	440,000		
Bıkanir	•••	•••			22,340	832,000	18,750	587,000		
Dholpur .					1,197	291,000	1,200	291,000		
Jaisalmir	• •	•••			16,062	116,000	16,000	115,000		
Marwar	• •	•••	•		35,000	2,526,000	6,900	235,000		
Tonk :	••	•••			1,705	286,000	750	134,000		
		Tota	l		198,600	21,371,000	82,500	6,998,000		
	Gı	BAND T	[OTAL	•••	504,490	96,931,000	276,500	52,698,000		

11. In the Madras Presidency two distinct areas were affected—the Deccan, and the northern districts on the East Coast known as the Circars. In the Deccan distress was severe over approximately one-half of the Kurnool, Bellary, Anantapur and Cuddapah districts which have an area of 27,106 square miles and a population of 3,700,000. The distressed portion was described in November 1896

by the Madras Famine Commissioner as "a broad band occupying the north-western part of Cuddapah, the taluks of Kurnool immediately adjoining to the north, the northern half of Anantapur and the eastern half of Bellary with some parts of Kurnool adjoining. This tract largely consists of stiff "black cotton" soils which are not usually sown till September, and which in 1896, in consequence of the failure of the September and October rains, were either left unsown or yielded but a scanty crop. The rest of these four Deccan districts also suffered from the defective rainfall of 1896, but owing partly to the predominance of lighter soils and partly to receiving larger amounts of rain, the harvests there were better. In the Circars relief measures have been undertaken over scattered areas aggregating 8,600 square miles with a population of 3,000,000. In these tracts distress was later in declaring itself and was throughout sporadic in type, and the numbers on relief have been relatively small Employing the terminology of the Famine Commission the distress in the Deccan has been classed as severe and in the Circars as slight

12. The whole of the Bombay Presidency (excluding Sind) suffered from the premature cessation of the southwest monsoon of 1896, and everywhere a bad or indifferent autumn harvest and short sowings of the cold weather crops were reported. But actual distress was confined to the belt of country lying above the western ghats and comprising the Deccan and South Mahratta districts. The area classified as severely distressed includes the whole of the Bijapur, Sholapur, Ahmednagar and Nasik districts, four-fifths of the Satara district, one-half of the Poona district, one-third of the Belgaum district, and scattered portions of the Khandesh district. The rest (9,000 square miles) of the Khandesh district is shown as slightly distressed. Of the distressed districts the most severely and generally afflicted was Bijapur. In it the autumn harvests absolutely failed over the whole district, and very little land was sown with cold weather crops. In Sholapur the crop-failure on unirrigated lands was equally complete, but in places there is a fair amount of tank and well irrigation which was utilised to the full. In Ahmednagar and Nasik the western portions suffered less than the eastern, and distress was less general and less acute than in Bijapur or Sholapur. In the portion of the Poona district classed as distressed distress was undoubtedly severe. In Satara, Belgaum and Khandesh relief has been confined within relatively small limits.

13. In Bengal the severely distressed area is shown as 26,000 square miles with a population of 11,200,000, but relief operations on a large scale were confined to 11,466 square miles and a population of 7,552,000 in the densely populated province of Behar. Of the remaining area 10,035 square miles with a population of 1,787,000 lay in the hilly and sparsely populated division of Chota Nagpur, the indigenous races of which were exposed to a certain amount of privation from failure of crops and high prices, but succeeded in maintaining themselves without general resort to the relief offered to them. In the Presidency Division portions of the Nuddea, Khulna, and Murshidabad districts, with an aggregate area of 1,568 square miles and a population of 849,000; in the Bhagalpur Division portions of the Bhagalpur district and of the Sonthal Parganas, with an area of 1,921 square miles and a population of 702,000; and in the Orissa Division a small tract in the Puri District, required a limited amount of relief. The effect of high prices and the great deficiency in the rice crop were felt more or less severely throughout the province, and test works were opened from time to time in several other districts. But as they failed to attract workers, the people had presumably larger resources than was imagined. No exceptional mortality, it may be remarked, occurred in Bengal. Even in Behar, in parts of which severe distress prevailed, the death-rate has been normal throughout the year.

14. In the North-Western Provinces and Oudh, the severely distressed area The North-Western Provinces and Oudh distressed area as 16,000 square miles with a population of 14,000,000, and the slightly portions of the province where relief operations were not required were the Meerut Division in the west, the hill districts of the Kumaun Division, and the districts of Ghazipur and Bahraich in the East. But even in these tracts the harvests were

below the average. In two well marked areas distress was exceptionally severe. The first included the districts of Banda, Jalaun, Hamirpur, Jhansi, Allahabad (part), lying south of the Jumna, and known as the Bundelkhand districts of the Allahabad Division. This tract is geographically part of the rugged hill country of Central India. With a precarious rainfall, few facilities for irrigation, a poor and unskilful population, and indifferent methods of agriculture, these districts have often been visited by famine. They had passed through one such year when the rains of 1896 failed. Judged by the extent of crop-failure and by the complete exhaustion of the resources of the people, the recent famine equals in intensity any previous famine in this region. The second area of severe famine included central and southern Oudh, distress being exceptionally severe in the district of Hardoi. Outside these two areas there was severe distress in the Azangarh and Gorakhpur districts in the east which border on Behar, and in the lower part of the Gangetic Doab, including part of the Agra Division. The slightly distressed area comprises Rohilkhand, parts of the Agra Division, and Northern and Eastern Oudh. Up to April there was severe distress in the whole of the Agra Division and in East Oudh, but with the harvesting of the cold weather crops the circumstances of the people there greatly improved.

15. In the Central Provinces the area returned as severely distressed represents three-fifths of the whole area of the Central Provinces provinces. No district of the 18 into which provinces. No district of the 18 into which they are divided is absent from the return. In four districts (Nagpur, Chanda, Wardha and Sambalpur) small areas only were affected; in four others (Raipur, Chhindwara, Bhandara, Balaghat) the affected area varied from one-third to a half of the district. In the remaining 10 districts the whole area was distressed. Taking the Provinces with reference to their geographical divisions, it will be seen that no part has altogether escaped the drought and its consequences. In the Vindhyan district of Saugers and Dornels and in the In the Vindhyan districts of Saugor and Damoh, and in the consequences. northern or Vindhyan half of the Jubbulpur district, distress was acute among the hill aborigines who had lost their crops of millet on which they chiefly depend for food-grain. There was also considerable distress among the agriculturists in the open country, as their resources had been exhausted by previous bad seasons. In the wheat-growing valley of the Nerbudda, comprising the southern half of Jubbulpur, Hoshangabad, Narsingpur and Nimar, the failure of the autumn crop and a very small spring crop combined with previous had seasons to create wide-spread distress. In this fertile tract artificial irrigation is almost unknown. Where the monsoon rains, ordinarily here so certain, fail the cultivator, the loss of crop is necessarily great. The districts of the Satpura plateau—Chhindwara, Seon, Betul, Mandla, and part of Balaghat—chiefly depend on the early rain crops. In 1896 these failed very generally throughout the plateau and little rahi* was sown. In this tract, with the exception of the open part of the Chhindwara district where the crops were fairly good, distress was severe, and was heightened by exhaustion of local food stocks, inertness of trade and difficult communications with the lowlands, and consequent great rise in prices. South of the Satpuras the districts of Chanda, Wardha and Nagpur were more favoured with rainfall, the early autumn millets gave a moderate out-turn, and a fair area was sown with wild weather crops. In these districts there was comparatively little distress. There remain the three districts of Sambalpur, Raipur, and Bılaspur, in the Chhattisgarh division, and the Bhandara district in the Nagpur division, in all of The Sambalpur district and the southern half of which rice is the chief crop the Raipur district had a fair rice harvest, and the cultivators also possessed large stocks from previous years which have been exported throughout the scarcity at great profit to the holders. The northern half of the Raipur district, the whole of the Bilaspur district, and three-fourths of the Bhandara district were severely

Among the circumstances which have made the famine in the Central Provinces exceptionally severe and widespread are the large aboriginal population, the exhausting effect of two previous bad years, the preponderance of rain crop cultivation, and the absence of large perennial irrigation systems like those which are so beneficial in Upper India. The very immunity from drought which this part of India has enjoyed in the past and the abundance of the average rainfall make drought here especially disastrous.

^{*} Rabi is the vernacular term for the cold weather crops; kharif for the rain crops. In Bengal the early rain crops are known by the name bhadoi.

16. In the Punjab the distressed area is returned at 13,000 square miles, with a population of about 3½ millions, but relief on an extensive scale has been confined to the The Punjab Hissar district In this district very little of

the rain crops or of the cold weather crop came to maturity, the cattle died in large numbers from want of grass and water, while the resources of the people had previously been exhausted by a very bad season in 1895-96. The other districts (Rohtak, Karnal, Umballa, Delhi and Ferozepur) in which relief was required he in the south and south-east of the province. In all these the autumn and the cold weather crops yielded little, except on irrigated lands. In the Rohtak district the rain crop was half an average one, and the area under cold weather crops was less than one-third of the average acreage. There was no rain here from September to January, except a few showers in September. In the Ferozepur district the unirrigated area sown with cold weather crops was only 193,000 acres against an average of 701,000 acres

By utilising to the full every means of irrigation the cultivators secured 487,000 acres of wet crop against an average of 351,000 acres. But this extension of irrigation did not make up for the loss of crop on the dry lands, though it enabled the district to tide over a drought of exceptional severity. Between April and 31st October only 3 inches of rain fell in this district, the average being 14 inches. The November showers were slight and December was rainless.

17. In Burma the area affected comprised the whole of one district (Meiktila) and parts of two others (Yamethin and

Burma. Myingyan), which are situated in the "dryzone" region of Upper Burma. The rainfall of this region is light and precarious, and droughts have frequently occurred in the past. The population is fortunately a recommendation of the past. the past. The population is fortunately sparse, averaging about 100 to the square mile, and the male portion is accustomed to migrate to Lower Burma for some months of each year for harvest work. In 1896–97 there was an almost total tailure of crops of all kinds. In 1897 also the rainfall up to the end of August was in great defect and the early crops failed extensively. Matters have since improved, owing to opportune and fairly heavy rain, but distress is expected to continue for some months longer At no time, however, have the numbers on relief exceeded 35,000, and they have now fallen to 18,000. There has been no difficulty about food supplies, as rice has been freely imported from Lower Burma

18. The whole area of Berar is returned as affected, as relief operations were to some extent required in all the districts. But this somewhat overstates the extent or degree of distress. The autumn crops failed generally to the extent of a half, and the less important cold weather crops are

estimated to have yielded only a quarter of the average. But the cultivating population of the Berars is exceptionally prosperous and well-to-do, and is able to tide over a single bad year without great distress. The labouring population has been affected by high prices and want of employment, and in the forest region of the Melghat there was severe distress. The numbers on relief have, however, never exceeded 34,000, and as an indication of the prosperity of the province it may be mentioned that the stocks of grain with the cultivating population at the beginning of the scarcity were believed to be fully a year's supply.

19. The affected area in the territories of native states is returned at 82,000

square miles, with a population of 7,000,000. It comprised the Bikanir, Bhurtpur and

Dholpur States in Rajputana, and in Central India the northern districts of the Gwalior State, and virtually all the States (of which Rewa is the largest) forming the Baghelkhand and Bundelkhand Agencies, and lying between British Bundelkhand on the north and the Central Provinces on the south. The southern States of Rajputana, the States of Indore and Bhopal, and the southern districts of Gwalior, in Central India, were not sufficiently affected to require relief operations, although they also experienced short harvests In the Deccan the south-western districts of the Hyderabad State, which he in the angle between the distressed districts of Kurnool and Bellary in the Madras Presidency and the distressed districts of Dharwar and Bijapur in the Bombay Presidency, were affected in much the same degree as the adjoining British districts

In Bundelkhand and Baghelkhand intense distress prevailed, as in the adjoining districts of British Bundelkhand in the North-Western Provinces and Oudh. There was widespread failure of the autumn crop, and the spring harvest in most parts was miserably poor. The cultivating and labouring classes were reduced to extreme destitution and underwent great privations. There was continued emigation into British territory, which was productive of much anxiety and inconvenience owing to the wanderers crowding on to the nearest relief works and peopling the poor-houses and relief camps on the main lines of communication. The measures of relief adopted by the rulers of the States concerned will be described later on. Here it is sufficient to say that they were not always sufficient to meet the emergency. In Gwalior and Bhurtpur and in the affected parts of Rajputana distress, though severe, was at no time nearly so acute as in Bundelkhand. In Hydershad the affected districts, owing to preceding good seasons, entered upon the year of drought with large reserves of food-grain in the hands of the cultivators. The labouring classes, however, were thrown out of employment and have severely felt the pressure of high prices.

20. A comparison of the areas and populations affected by the late famine with corresponding figures for previous famines gives the following result. The drought of 1876–78 is considered by the Famine Commissioners to have been the most

Famine Commissioners to have been the most serious and widespread of any that have Part I, paragraph 75. occurred in the century.* The area affected in Southern India in those two years was about 200,000 square miles, with a population of 36,000,000. In this area famine was intense in an area of 105,000 square miles, with a population of 19,000,000; severe in an area of 66,000 square miles, with a population of 11,000,000, and slight in an area of 34,000 square miles, with a population of 11,000,000. In 1877-78 a further area of 52,000 square miles in the North-Western Provinces and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 32,000 mes and the Punish with a population of 34,000 mes and the Punish with a population of 36,000,000. Western Provinces and the Punjab, with a population of 22,000,000, was afflicted by a failure of the rains, though it suffered to a far less degree. In August, 1877, just before the drought broke up, the total area affected in India was about 250,000 square miles, with a population of 58,000.000. In the late famine severe or intense distress extended over an area of about 270,000 square miles, with a population of over 50,000,000, and a further area of 33,000 square miles, with a population of 13,000,000 was so far distressed as to make relief operations necessary. Thus in point of actual extent the late famine affected a wider area than the famine of 1876-77. As regards the area of intense distress it is safe to place in this category about 40,000 square miles in the Central Provinces, with a population of 5,000,000; 3,000 square miles in Oudh, with a population of 2,000,000; 12,000 square miles in British Bundelkhand, with a population of 2,000,000; 12,000 square miles in British Bundelkhand, with a population of 3,000,000, and 25,000 square miles in Central India, with a population of 3,000,000. This gives a total area of 80,000 square miles in which distress was intense, with a total population of 14,000,000, without including any portion of North Behar or the Deccan or the Hissar district, in the Punjab, in parts of which the Famine Commission's criterion of intense distress—the loss of 75 per cent. of the average harvest of the year-was fully satisfied. As regards therefore the extent of intense famine there is little to choose between the drought of 1876-78 and that of 1896-97. The numbers on relief, if this be any test, have been very much greater on this occasion than in 1876-78, and a very high level of prices has continuously prevailed over a larger area than in that year Where this year's famine has fortunately differed from the famine of 1876-78 is that the drought has completely broken up, save in the Deccan and Upper Burma, at the end of the first year. Even in the Deccan and Upper Burma the rainfall of September should secure a cold weather crop and place the termination of distress within measurable distance At no point of time has the crisis been so acute as in August 1877, when Southern India had entered upon its second year of famine and the rains to all appearance had failed in Upper India.

III .- The course of prices.

21. Prices are the barometer of scarcity in India. Even when high prices in a locality are occasioned not by local failure of crops, but by failure elsewhere, they mark the beginning of pressure on the landless classes,—the day labourer in the villages and the poorer inhabitants of the towns. From the rainfall of the year 1896-97 to the course of prices in that year is therefore a natural transition. The following return gives the average prices in each month in certain markets of the food-grains most in use in each tract:—

Province and District.						1896								1897							
	Provinc	e and District	1813.	1894.	1895.	June.	July	August.	September	October	November	December	January	February	March.	April.	May	June.	July	August first ha	
and .	ſ	(Wheat	15 82	179	16 32	18	13	12 37	9 37	8 31	8 12	8 56	9 12	9 12	9 3 7	10 44	10 37	9 86	9 94	95	
		Barley	22 77	24 83	20 31	16	1ŏ	14 62	11 25	95	9 12	9 25	9 75	10 62	12 25	12 37	12 5	11 25	12	12	
W W W D	(Casonpore	Gram	23 12	23 57	20 34	16 25	15 62	14 75	11	9 62	9 62	10	9 88	9 62	10 5	9 75	95	9-12	9 25	8.75	
1	l	Jawar	22 54	23 91	19-59			15 25	11 62	11	10 12	10 87	10 62	1062	10 87	10 5	٠	••			
Д	ſ	(Wheat	16 12	24 08	18 17	16	14 5	14	11	95	8 12	85	9 88	8 44	7 97	10 81	12 06	11 78	10 5	10 1	
N. P.	F	Barley	26 92	41	31 37	21 5	195	19	14	115	9 75	95	11 12	11	9 88	18 31	18 88	14 69	14	126	
-FUNJAB	Lahore.	Gram	26 46	35 37	25 83	19	17	17	125	105	9 62	9 88	115	10 31	9 94	11 75	11 78	10 84	10 15	9	
SI .	Ĺ	Maize	18 42	84 12	23'54	14	16	15	13	12	105	10 88	11	11	10.12	10 5	7 25	7 75	9	82	
4	Patna	Rice (common)	16 5	15 9	18 42	17	16 37	14 25	12 12	9 88	10 25	10 34	10 25	10 25	10 25	9 87	8 75	8 62	8 12	8	
-BERGAL	rana	Barley	22 43	22 79	24 21	21	195	17	15	11 5	11	12	125	12	14	13 75	13 25	125	115	12	
ì	Dar-	Marua .	24 17	28 67	26 28	25 5	26	22 5	20	16 25	15 5	13	12	12	12	11 97	11 12	11	9 62	11	
•	bhanga	Masze	22 45	21.08	24 21	22	20	22	17.5	13 25	11 88	10 87	9 88	9 62		9	9 5	9		8	
1	Nagpur	Wheat .	15 48	16 61	151	15 75	18 75	1281	12 19	9 69	8 44	9 69	9 37	9 37	9 37	906	8 75	8 28	8 12	8	
	21,297.07	Jawar	18 85	20 11	18 36	1781	1781	18 75	18 12	12 81	11 28	14 37	13 44	11.5	10 94	10.09	10 66	8 91	8 91	9	
gi)	Mandla	\ Wheat	17 33	18 08	15 67	12 62	125	105	9 25	8-75	95	95	9	8 25	9	8 25	8	75	8*25	8	
VINCES.	125/10/16	(Gram	21 37	26 67	19 94	13 75	13	12	10 75	105	105	105	10	10	11	10	9 25	7 88	7 88	8	
	Bilaspur .	-Rice	18 42	18 11	16 76	12 31	12 31	12 31	10 12	9	10	10 37	10 69	10 84	9 12	8 62	8 5	. 8	7 56	8	
Į	Betul .	Jawar	21 87	27 04	18 58	15 53	14 41	14 37	14 37	14 37	10 25	10 25	10 44	9 75	9 06	85	85	6 75	7 56	8	
- 1	Poona	Wheat .	11 08	13 52	14 09	1281	12 81	12 81	11 22	8 12	7 28	7 84	8 12	7 84	6 37	6 66	6 94	6 94	6 94	69	
PAY PAY	20010	Jawar .	17 09	18 27	20 08	20	20	20	1881	9 97	9 97	9 97	10 56	10 28	937	9 37	9 37	9 09	8 25	71	
	Bijapur .	-Jawar	20 56	22 66	27 18	25 19	25 19	25 19	20 69	12 59	9 91	11 25	11 72	11 69	9 88	11 25	10'41	9 06	7 62	7	
(-	Cholum .	21 81	23 87	29 73	31 12	30 62	30 62	25 75	13 12	11.09	13 87	13 12	12 37	11 59	12	11 62	10 72	9 15	8	
a {	Rellary <	Ragi	23 4	24 41	80 25	29 12	29 12	29 56	25 72	165	18 59	17 44	16	165	16	16 5	165	15 06	14 12	13 (
,	-	Rice (common)	10 55	10 79	10 86	10 81	10 81	10 81	10 25	8 37	781	8 91	9 19	9 19	9 19	8 62	8 62	8 12	7 88	71	
	(1) This t	able, which has been con or Cholum is a large m	npiled fro	m the Ga	zette of Inc	lia retura	gives th	e number	of seers, an	d decimal	s of seer, pu	rchaseable i	or Re. 1.	<u> </u>	l seer	=2 057 lbs		·	·		

- 22. From this table it will be observed that, compared with the prices prevailing in the three previous years, prices ruled high in the North-Western Provinces in the early part of 1896 before there was any apprehension of the failure of the monsoon rains. The harvests of 1895-96 had been poor in the provinces generally, and in the Bundelkhand districts very bad. The Punjab in 1895-96 also had poor harvests, and prices there in June 1896 were relatively high. In Madras and Bombay harvests had been good, and food-grains in June 1896 were cheap. It will also be observed that the great difference existing in ordinary years between the price of wheat and the commoner grains vanishes in a year of scarcity, and that then all food-grains draw together at the same high level of price.
- 23. According to the Famine Commission, "in time of very great scarcity "prices of food-grain rise to three times their ordinary amount, so that whereas in ordinary years the price of the food-grain of the mass of the people may be from "20 to 30 sers the rupee, in time of great scarcity it will rise to 8 or 10 sers "(16 to 20 lbs.) the rupee and even higher." The course of prices during the late famine has been in general conformity with this rule. The chapest grain purchaseable has for months ruled throughout vast areas at 8 or 10 sers the rupee and even higher. But since the Famine Commission wrote, the price of food grains in ordinary years has risen in India, and only in exceptionally good seasons does the rate of 30 sers to the rupee maintain. In the Punjab 1894 was such a year, and very low prices for the commoner grains prevailed. In Eastern Bengal, one of the most prosperous parts of India, the price of common rice for years past has not exceeded Re 1 for 15 sers. In 1880-85 from 20 to 30 sers was there the ordinary rate In the Bombay Deccan the price of the great millet (jowan), which is the staple food of the people, is now more often above than below Re 1 for 20 sers. The rise in food-grain prices since 1881 is still more remarkable in tracts to which the railway has penetrated. In 1880-84 rice sold at from 30 to 50 sers the rupee in the Chhattagarh Division of the Central Provinces. The normal price of recent years has been below 20 sers. These facts have to be borne in mind in applying the formula of the Famine Commission to the present circumstances of India. A rate of 8 or 10 sers the rupee, though it curcumstances of India A rate of 8 or 10 sers the rupee, though it still presses heavily on the great mass of the population, can no longer be regarded as a rise of 300 per cent on the normal price of food-grains. Another peculiarity of the late scarcity is that though prices rose at once in the first days of the drought to famine level, as determined by the Famine Communication that sion, it was only in the worst tracts and in the time of greatest apprehension that they reached the extreme height of former famines. In June and July of 1877 they reached the extreme height of former famines. jawari rose in the Bijapur District in the Bombay Deccan to 41 sers the rupee. This year, although the crop failure in Bijapur was as widespread and complete In syear, atthough the crop tailure in hijapur was as whespread and complete as in 1877, prices have remained steady at between 7 and 9 sers the ruper. In the Central Provinces food grains rose for a fortinght to 55 sers the ruper in the Mandla District in July last owing to exhaustion of local stocks; but on import being resumed, prices at once fell back to a lower level. High rates were also reached in parts of the Chota Nagpur Division, where local supplies gave the control of the chotal parts of the Chota Nagpur Division, where local supplies gave out early in the year, and the distances from the railway and large markets are considerable. Here rice, the stape food-grain of the country, has at times touched 4½ and 5 sers for the rupee, and might have risen higher had not the Government by a system of bounties stimulated importation. If such a restricted that are the form 7 to exceptional cases be left out of account, it may be said that a rate of from 7 to 10 sers the rupee has been maintained throughout the greater part of India with singular persistency from the failure of the monsoon in October 1896. The great equality of prices throughout the country was also remarkable. The Meerut equality of prices throughout the country was also remarkable. The Meerut Division of the North-Western Provinces had good autumn crops and a good cold weather harvest But prices have ruled practically as high there as in famine-stricken Bundelkhand. In the Punjab there was only the difference of the railway freight between prices in the most fortunate of the canal districts, where the cold weather crops were nearly up to the average, and in Hissar, where are one five yielded a crop. This universal prevalence of high prices was the cause of much privation amongst the poorer classes, especially the poor classes of towns, outside the areas of local failure of crops. On the other hand, tenants and owners of land in the non-distressed districts have made large profits, and in such

exceptionaracts the poor seem to have been sufficiently provided for by private liberality. In the Madras Districts lower prices have prevailed than elsewhere, as the craim the south of the Presidency were good. But the tendency has been fithe Madras prices to level up to those of the Bombay Deccan, more especially, the later period of the famine.

IV -Food Stocks.

24 he rapid and extraordinary rise in prices described in the preceding section ries the question whether there was any serious deficiency of food supply in the cottry. The materials are not sufficient for a full discussion of this most important question, but it cannot be entirely excluded from consideration.

The position of India in ordinary years is that it produces sufficient food for its wn requirements, with something to spare for export or for storage. The Faine Commission after a prolonged enquiry came to the conclusion that the annual food grain production of British India (excluding Burma but

Famil Commission's Report, Part I.

Famil Commission's Report, Part I.

British rule) was 51,530,0.0 tons, that its requirements were satisfied by 47,165,000 tons, and the a surplus of 5,165,000 tons was available for export or for storage. Since the Faune Commission wrote the population of the same area has risen from 181 mlions to 212 millions, an increase of 17 per cent. The food requirements of this infrased population would, on the data employed by the Famine Commission, be 5410,000 tons. During the same period the area under food grains has risen from 181 millions of acres to 185 millions, an increase of only 8 per cent. The production of the present food crop area, according to the standard of yield adopt for each province by the Famine Commission, is 56,000,000 tons. On these igures a surplus of only 1,700,000 tons results, in place of the surplus of 5,160 00 tons estimated by the Famine Commission in 1881 as existing in ordinary years. If the Famine Commission's estimate was at all correct, it is difficult to a indicate the margin in ordinary years is smaller. Allowance must be made for the greater extension of irrigation during the last decade and for the larger average yield of the areas thus benefited. But the most liberal allowance on this account will not bring the annual surplus above 2,500,000 tons

for the larger average yield of the areas thus benefited. But the most liberal allovance on this account will not bring the annual surplus above 2,500,000 tons. This estimate receives some confirmation from the statistics of sea exports. Thei exports of food grains from British India (excluding Burma) to foreign countries have averaged 1½ millions of tons in the last 10 years and little over 1 million of tons in the last five. If the food production of the country resulted in didinary years in a surplus much in excess of these figures, the consequent accumulation of stocks would be indicated by a fall in prices. But prices on the whole have tended to rise. In particular years particular provinces no doubt produce food in large excess of their requirements and in excess of the estimated surpluses shown by the Famine Commission. This was the case in the Punjab in 1894-95 and in the Bombay Deccan and Madras in 1895-96, and it was marked by a very low rull to of prices in those tracts, by exportation from them to other parts of India where harvests had been less bountiful, and by large surplus stocks which have proved very useful in the present famine. But this is not incompatible with the theory that taking the country as a whole its surplus production of food grains in ordinary years is small, and that if the crops in any year are below the average over considerable areas, the year's outturn will fall very seriously below the requirements of the population. In the above survey the food production of Burma and of the Native States of India has been left out of account. As regards the Native States it seems probable that their exportable surplus ordinarly is small. Burma has usually an exportable surplus of from 2 the Straits.

25. To return to the outturn of 1896-97. The crops are known to have failed very seriously over large areas, and elsewhere were below the average. There is thus a strong probability that the production of the year was much below the

This year however, a large portion of the Burma surplus was diverted to India

and have very salutory effect in steadying the Indian markets.

requirements of the population. Yet with the exception of 600,00 ts of Burma rice there was no import of food grains from abroad, and there has tho absolute dearth of food. It has always been purchaseable though dear premiulated stocks must therefore have been in existence and have made good to fictionly in the year's output. The amount of the deficiency cannot be quantimely stated. All that can here be done is to indicate approximately, by exam ton of the effect of the drought on the harvests of each province, the extent which the year's outturn appears to have been below that of ordinary years.

26. In the Punjab the aggregate yield of the autumn and the strain harvests of 1896-97 seems to have been about 25 per cent or 30 per cent. If the first of an average crop. In some districts the deficiency was very much gruer and mothers less than this Considering the scanty rainfall of the year the sault was highly satisfactory, and it could not have been attained were it is soluturists willing and able to make the fullest use of them. No less than 40 per int. of the rain crop area and 50 per cent. of the spring crop of 1896-97 was cigated—percentages higher than have ever been known before. The food grain bduction of the Punjab is in normal seasons considerably in excess of its rengenents. Taking into account the economy in consumption enforced by his ces, the yield of 1896-97, though below the average, probably represented one late food supply for the province. The food stocks in existence in the provinct at the beginning of the drought have been estimated to represent 7 monthifurther supply. Thus the Punjab as a whole has been very fortunately situated. Local deficiencies of food stocks, as in the district of Hissar, have been easily in a good by importations from the less affected districts, and grain has been leadily going out of the province to the North-Western Provinces and this central Provinces.

The North-Western Provinces and Outh were less fortunately situated, These provinces owing to their dense population are not credited with proving a large surplus of food even in ordinarily good years. In 1896-97 the aut. or crop as a whole was fully 50 per cent. and the spring crop 33 per cent. be of the average. Taking the two crops together the province may be considered have lost two-fifths of its ordinary harvest outturn. The loss would have been very much greater but for the splendid canal systems which traverse the western and central portions of the North-Western Provinces, under the names of the latern Jumna Canal, the Agra Canal, and the Ganges Canal, and for the inner able wells and ponds which stud the face of the country, especially in Easterl and Southern Oudh, and in the eastern districts of the North-Western Provinces. The canals irrigated 3,000,000 acres in the two harvests of 1896-97. The area irrigated by wells and tanks has not yet been returned, but it may be safely said that in very few districts did the spring crops yield much, except on irrigated lands. To irrigation therefore the very fair results of the spring harvest of 897 must be ascribed. The efforts made by the cultivators to utilise to the fillest possible extent every drop of water and to raise a crop were described by cohservers as heroic. Still the deficiency in the food production of the year was large. Stocks seem to have been low owing to preceding bad seasons. The statistics of railway traffic show a large continuous import of food grains into the province from the Punjab and Bengal from the first days of the scarcity. Tuch of the Burma rice found its way to Bundelkhand and Oudh.—With the completion of the cold weather harvest the pressure perceptibly eased off in the less distressed tracts.

In Bengal the great crop of the year is the winter rice which occupies 31 million acres in a total food crop area of 53 million acres. The food crops harvested in the spring occupy 9½ million acres, and the early rain crops of rice and millets 12½ million acres. The yield of the late rice crop in 1896-97 is returned at under half an average crop, a deficiency of about 8 or 9 million tons. of food. The early rain crops of 1896 were 40 per cent. below the average yield. The spring harvest of 1897 was an average one. The agricultural returns of Bengal are less exact than in other parts of India, and it is possible that the cropfailure was not quite as great as reported. But even in that case, the production

of the year cannot well be placed above two-thirds of the average outturn. This would be much below the requirements of the population for the twelve months. In the distressed districts of North Behar local stocks were soon exhausted and imports have been on a large scale. Large quantities of Burma rice went there Elsewhere there must evidently have been considerable reserves of food. Not a tew districts have continuously exported and have shown no signs of exhaustion.

In the Central Provinces the outturn in 1896–97 seems to have been fully 55 per cent below the ordinary yield. With average harvests the province is estimated to produce about 3½ million tons of food-grains, of which from 300,000 to 400,000 tons are in excess of its requirements. This year the outturn fell below its actual requirements by about 1,000,000 tons. The deficiency must have been chiefly met from food stocks existing in the province, as the imports from outside have not been large. Within the province grain has moved freely from the less distressed districts to the more distressed ones. Great economy of consumption has also been practised under the stress of acute distress.

In Bombay the Deccan districts enjoyed two good years immediately preceding 1896, and on the estimates of the local Agricultural Department had in that period accumulated reserves of food equivalent to a 9 months' supply. It was fortunate that this was so, for the food-grain outturn of the year in the affected districts was little, if anything, over one-fourth of the ordinary yield. Outside the affected area Sind had average harvests, while Guzerat was somewhat in defect. The total outturn of the Bombay Presidency in 1896–97 may be put at five-eights of the production of an ordinary year, and consequently was less than 12 months' requirements of the population.

In Madras the outturn of the distressed area in the Deccan may perhaps be put at one-quarter of the average; and in Ganjam and Vizagapatam the outturn was short by probably 50 per cent. Elsewhere the deficiency was not great, and as the distressed areas were relatively small, the year's outturn of the Presidency was probably within 20 per cent of the normal. Stocks also were large. Prices have been lower than elsewhere, and the grain exports to other Provinces have exceeded the imports. Madras therefore has not been in serious difficulty about its food-supplies

In the Berars the autumn crop which there occupies a much larger area than the spring crop was said to be short by 50 per cent,; and the spring crop by 75 per cent. This is probably an over estimate of loss. The cultivators were said to have had a year's supply of food-grains in hand, and though prices have been high, there seems at all times to have been sufficient food in the province

Regarding the Native States in which distress has prevailed, it is only possible to speak in general terms about their food production and requirements. In the Nizam's Dominions the distressed districts had, like the Bombay and Madras Deccan country, enjoyed good seasons up to 1896, and entered on the scarcity with large stocks of grain. Much of this was drawn away to British districts in the first months of the drought, and then holders of grain took alarm and refused to sell. Prices reached a very high level in parts of the State, but there is evidence that considerable reserves still exist. In Bundelkhand and Baghelkhand the year's production of food must have been much below the requirements of the population, as the harvests were as bad as in British Bundelkhand. On the relief works in Rewah considerable quantities of Burma rice were sold, and despite of the prejudices which as a novelty it excited it found its way into remote village marts. The Gwalior and Dholpur States must also have been short of supplies, as they imported grain largely from the Meerut Division of the North-Western Provinces and Oudh, and from Rajputana. The Rajputana States on the other hand had for the most part fair harvests and considerable stocks, and were able to export.

27. Summarising the results of this investigation as regards British India, the could below indicates that the food-outturn of British India (excluding Burma) in the constant one-third below that of ordinary years. This represents a marked time and various tons. The consumption of the people under the telegraph of the property of the people under the telegraph of the people under the people under the telegraph of the people under the people und

deficiency has in this way been covered. The rest has been made good by reserve stocks, and by the import of about 600,000 tons of rice from Burma.

	Pro	ovince.				Population by present census.	Normal food crop area.	Defect in yield 1896-97 below the normal.	
1. Punjab		•••	• • •			20,800,000	Acres. 22,000,000	25 pe	r cent
2. North-West	ern Pro	vince	s and (dh		47,000,000	36,000,000	40	**
3 Bengal		•••				71,000,000	53,000,000	33	"
4. Central Pro	vinces	•••				10,700,000	14,500,000	55	,,
5. Berar	•••		••		••	2,900,000	4,000,000	40	"
6. Bombay			•••			18,800,000	23,000,000	35	**
7. Madras	•••					36,000,000	27,500,000	20	"
			Total		•••	*207,200,000	180,000,000	33	"

^{*} The exclusion of Mysore accounts for the difference between these figures and those given in paragraph 24

V.—The first period of the Famme—Alarm and Preparations.

28. The first premonitory report of the impending trouble came from the North-Western Provinces and Oudh. On North-Western Provinces and Oudh. the 30th September 1896 the Lieutenant-Governor informed the Government of India that since the beginning of the month increasingly unsatisfactory reports of the condition of the people and the prospects of the crops had been received from his officers. The rains, it was said, had practically ceased just when they were most wanted. Very serious damage had already been done to the autumn or kharif crops. If sufficient rain should fall before the middle of October, it was anticipated that the kharif still standing might be saved, and that the usual rub: area would be sown. If no rain were to fall the outlook would be very serious. The provinces had already suffered from two successive years of bad harvests. The people were crippled in resources and their stocks of grain exhausted. Prices were very high, and were still rising. Wheat was selling at 9 to 10 seers the rupee, and barley at 12 sirs, prices which represented a rise of 50 per cent. on those ruling in the early part of the year. In anticipation of relief measure on an extensive scale being necessary, the programmes of relief works were being carefully revised. A list of railway projects were the continued of which would affeed useful and beneficial projects was given, the earthwork of which would afford useful and beneficial employment for famine labour. To this report was added a copy of the instructions which the local Government had addressed to district officers, directing them to institute special inquiries in each subdivision as to the actual condition of the kharif crops and the prospects of sowings for the rabi crops, and to report the result, together with estimates of the maximum number of persons for whose relief provision would be required, by the end of October. Authority at the same time had been given to them, in case distress appeared, to open public works under ordinary labour conditions to test the pressure on the people. They were also enjoined to complete in advance all the preparations prescribed by the Famine Code for the methodical and effective administration of relief.

29. This preliminary report was followed on the 23rd November by a letter setting out very fully the situation as then developed and describing the measures which the local Government had adopted for dealing with it. This letter is remarkable for the accuracy with which it anticipated the extent and nature of the distress which would occur, and for the forethought with which the detailed plan of operations that has been followed with complete success and very little variation had been prepared. It began by reporting that no improvement in the outlook had occurred. October like September had been practically only portion of the province which had escaped inimates.

through the subsequent dry months, and the parts of the Agra Division which are protected by canals. In the rest of the provinces the failure of the *kharif* crop varied from a loss of one-fourth in certain localities to a loss of three-fourths and over in others, the failure being greatest in those districts in which rice was most The tract most affected lay between the Ganges and the Gogra, and included the greater part of Oudh and the district of Azamgarh With this area Bundelkhand was also classed as, although its kharif in four districts out of five was returned as one-third of an average harvest, it had already suffered from famine The worst area thus arrived at comprised 35,000 square miles, with a population of 153 millions. With regard to the prospects of the *rabi* crop the sowings were estimated at 58 per cent of the normal area cropped, ranging from over 70 per cent. in the Meerut and Rohilkhand Divisions to 42 per cent in the Allahabad Division. Much, it was said, depended on rain falling in December and January In the worst area famine was anticipated whether there were winter rains or not In the area of less serious crop failure, comprising about 20,000 square miles with a population of 11½ millions, there would be much distress deepening in particular localities into famine. In the remaining area no general relief would be particular localities into famine. In the remaining area no general relief would be required. As to food supplies, confidence was expressed that there were considerable stocks of grain in the country and that food would not fail as long as there was money to buy it. Prices were, it was true, phenomenally high, and presented "many of the features, notably that of approaching equality between "the prices of the coarsest and the best food grains, which characterise famine "times." But trade was active, and the Lieutenant-Governor strongly expressed his computer that it would be equal to any probable expressions and that nothing his opinion that it would be equal to any probable emergency, and that nothing should be done to interfere with its free play.

30 The relief measures which had already been started were then described. Advances had been liberally made to cultivators for the construction of wells and the purchase of seed, and over 200,000 temporary wells had been thus constructed for irrigating the winter crop Land revenue to the extent of 80 lacs of supers (£r 800,000) had been suspended Programmes of large public works, rupees (£r 800,000) had been suspended frogrammes of large public works, chiefly the construction and repair of roads, calculated to employ 3,000,000 labourers for three months, were ready, and nearly 100,000 rehet labourers were already employed. These works were to be managed by the Department of Public Works. Certain railway projects were also proposed with the same object to the Government of India tor early sanction. In addition to these works, lists of small village works were being drawn up, which it was proposed to utilise for the purpose of drawing the people from large works back to their homes at the approach of the hot weather and employing them in their own villages Poor-houses had been opened for the reception of waifs and strays, and relief circles formed and circle officers appointed in each distressed district for the purpose of administering relief in their homes to women debarred by custom from appearing in public, and to men of respectable classes unaccustomed to manual labour, to whom such relief is admissible. It has been already said of this programme that in few respects only were departures from it necessary. These departures may here be conveniently noticed. For various reasons few of the railway projects recomrended by the local Government could be utilised as relief works, and relief labour has been practically confined to road-making and road repairs Small village works have proved less useful than was anticipated, and large works have been found necessary throughout the famine Gratuitous relief, as time went on, was largely expanded, and embraced not only the classes unaccustomed to work or to appear in public, but the aged, the young and the feeble of the labouring classes.

31. The Government of Bengal in October 1896 submitted to the Government of India two preliminary reports from the Commissioner of the Patna Division on the condition and prospects of the crops of his division. The Commissioner reported that the winter rice crop was withering daily from want of rain, and that prices were rising fast. These reports were followed in November by a more complete account of the situation both in Behar and in the rest of Bengal. It was remarked that "all known famines in Bengal and Orissa have been rice "famines. In Behar and Northern Bengal the bhadon and rabi crops may be the "turning point between famine and no famine, but even there the immediate cause

"of scarcities and famines has always been the failure of the winter rice crop." For this crop rain is required in September and October. In September 1896 the only considerable fall occurred about the middle of the month, which saved. only considerable fall occurred about the mother of the month, which saved, though it failed to fully restore, the crop in most districts except in east Behar. In parts of six districts in Central Bengal and Orissa, a deficiency of 50 per cent. of an average crop was anticipated. These tracts, however, were not considered to give cause for anxiety, except that prices were everywhere extraordinarily high. In Behar the Commissioner put the probable yield of the rice crop for the whole Patna Division at not worse they accurate of the supergrap yield. Division at not more than a quarter of the average yield. An area of 4,300 square miles with a population of 31 millions was estimated by him to be likely to require relief, and relief would be necessary for about 5 per cent. of this population, or 170,000 persons The Government of Bengal thought this estimate of relief two low, as no doubt it was. The crop-failure in Behar was, in its opinion, as great as in 1873-74, while the circumstances of the people were little improved. 'population is extremely dense, and the great majority of the people are much 'poorer than in most other parts of these provinces. The ordinary wages of "agricultural labour are extremely low, being for able-bodied and agricultural labourers only from 11 to 21 annas the day, and they have, owing partly to the "growth of population, and partly to the influence of custom, remained practically "unaltered for the past 20 years or more, while the prices of food grains have "increased largely during the same period." But what caused the Bengal Government most anxiety was the possibility of a serious deficiency in the food According to its calculations, the outturn of the three harvests supply of Behar of the year in the Patna Division, together with stocks in hand (assumed to be equal to three months' supply), would be below the year's requirements of the division by 550,000 tons. Where the difference was to come from and whether private trade would be equal to supplying the deficit were questions which the Government of Bengal was very doubtful about, though it inclined to the opinion that by importations of rice from Burma or of wheat from America private trade would meet the food wants of the Province.

32. It may be noticed that the Commissioner, though he furnished the estimates of crop-yield on which the local Government based its calculations, took a hopeful view of the situation. Comparing it with the situation in 1873-74 he thought that the material prosperity of the division had increased, that owing to good years the people were in better condition than in 1873, and that the

Comparative outturn in annas* furnished by the

Continerationer							
	18	78	1896–97				
:	Bhador.	k hary.	Bhados	Kharsf.			
Patna Gya Shahabad Saran 'hamparan . Muzaffurpur . Darbhanga .	4 8 4 103 10 114 9	2 6 2 15 2 45 24	10 12 7½ 6 8½ 5	9 8 4 8 3 8 5 5			

Relative areas under cack main cop in 1896-97

	Bhaden	Kharef.	Rabs.
Patua	20·5	43·4	36.0
	9 6	65·9	24.5
	7 6	44·3	48.1
	31 5	30·1	88.4
	35·0	43·9	21.0
	24 1	45·6	30.2
	21·2	57·7	21.0

two crops (bhadon and hharif) of which there was fairly certain knowledge were better than in 1873, except in Muzaffarpur and Saran. He saw no reason to fear that the third crop (rabi) would not be as good as in 1873-74, when it varied from a half to a three-quarters crop. In that case the Patna, Shahabad and Gya district would have a total outturn from the three harvests approaching or exceeding half the normal yield. In Champaran, Dar-bhanga and Muzaffarpur the rab was comparatively unimportant, and owing to the serious deficiency in the bhadoi and kharit crops he considered the outlook there to be serious. He remarked, however, that since 1873-74 an entire revolution had been wrought in all the conditions of famine relief in Behar by the immense development of communications. In 1873-74 there was only one railway in Behar. and that ran through the two southern districts of Patna and Shahabad. In 1896 there was at least one line of rail in each district, and in the division 589 miles were open. In 1873-74 the Sone canals had

not been opened. In 1896 they supplied water communication for many miles. In 1873–74 there were no steam ferries in the division. Now they were frequent. Lastly in 1873–74 the number of roads open were a mere fraction of what they were in 1896. In the whole division 12,500 miles of road were now open. He rightly concluded that all these charges would immensely facilitate, and render vastly less expensive, the supply of grain and the execution of all operations connected with the relief of distress

33 In December, on the Lieutenant-Governor visiting Behar, the details of the scheme of relief were settled. The distressed tracts were blocked out into relief charges and relief circles. A charge contained an area of about 200 to 300 square miles with a population of about 250,000 persons and a circle an area of about 30 to 40 square miles with a population of about 25,000 to 30,000 persons. To such of the charges as could not be officered by Assistant Magistrates, Police Officers and Deputy Collectors, young indigo planters specially employed for the occasion were appointed. In the three districts of Champaran, Darbhanga and Muzaffarpur, where the failure of the rice crop was greatest, 15 charges and 66 circles (to be increased eventually to 31 charges and 197 circles) were immediately formed. With regard to relief works, all large works were to be placed directly under the Department of Public Works, and all others managed by the Chul authorities. A list of large works, including several canal and drainage schemes and two railways, was drawn up, but as the event proved, it was not till a late stage of the scarcity that work could be commenced on them, and in the earlier months the relief workers were mainly employed on small scattered works, mostly village tanks, managed by the charge Superintendents and their subordinates. The Superintendents were also the officers responsible for seeking out the destitute poor in the villages within their charges, and placing respectable women and others, who were unable to labour and ashamed to beg and had no relatives to maintain them, on gratuitous relief in their homes.

To stimulate sowings for the cold weather crop a bonus of one rupee was granted to cultivators for each earthen well sunk by them for irrigation purposes. Money advances free of interest were also offered to landowners and others for undertaking in their own villages the excavation of tanks and the execution of other petty improvements, and thereby providing employment to the people. As Behar enjoys a permanent settlement, no suspension of the land revenue demand was proposed.

34. In these preliminary arrangements for relief in Bengal one or two special features may be noticed. The charge and circle organization was on a much larger and more expensive scale than in any other province and had a much larger European element. This is probably inevitable in Bengal in the absence of the subdivisional and village revenue establishments entertained in temporarily settled Provinces. The prominence given to gratuitous village relief in the duties assigned to this special staff, and the reliance placed on numerous small relief works close to the homes of the people, are also noteworthy. All these feature are found in the administration of the Behar famine of 1873–74. The auxiety felt lest the food-supply should run short and the discussion which afterwards ensued between the local and the supreme Governments as to assisting the trade to import also recall the Behar famine. It is interesting to observe this general tendency in each province to work on the administrative lines of its last great famine. Notwithstanding the levelling influences of the Famine Commission and the Famine Codes the respective relief systems of Madras and Bombay in the late famine presented distinctive features, and these can readily be traced back to the relief methods respectively adopted in each Presidency in the great famine of 1876–78.

35. The first report from the local Government of the Punjab, written in the third week in November, described the situation in very sombre colours. The rain crops in the south and south-east of the Provinces had extensively failed, and unless rain fell before the end of the year the cold weather crop would also fail. The rise in prices was everywhere causing uneasiness. Actual distress so far was confined to Hissar and adjoining districts, but active preparations throughout

the province to encounter famine were necessary and were being made. As event-turned out, these apprehensions proved to be exaggerated. Rain fell in good quantities in December and January, the rabi crops in the canal tracts were extremely good, and the rabi as a whole was probably within 25 per cent. of the normal outturn. In Hissar and in parts of Rohtak there was severe distress and relief works on an extensive scale were here required. Elsewhere the people maintained themselves without resort to State aid to an unexpected degree, and in the canal tracts the landowning and cultivating classes made large profits through the high prices of grain.

The Punjab Government in its relief measures was fortunate to have ready several large works of permanent utility on which it could employ relief labour. In the Hissar district the Gaggar canal and in the Gujrat district the Jhelum canal were thus utilised. Employment was also found on the earthwork of several projected railway lines. The labourers were generally of a robust type, capable of doing a full day's work, and it is believed that the greater part of the expenditure on relief works in this province during the late famine has returned good value in the form of public works of permanent utility.

36. A premonitory report from the Chief Commissioner of the Central Provinces reached the Government of India in the last week of October. The Chief Commissioner in reporting that the rains had failed since the beginning of September in almost every district of the province was unable as yet to state definitely the extent of damage sustained by the rain-crops or the probabilities of successful cold weather sowings.— The emergency however appeared to him to be one

extent of damage sustained by the ram-crops or the probabilities of successful cold weather sowings.— The emergency however appeared to him to be one "much in excess of any which have previously been experienced in the provinces." What made the situation more serious was that "the three previous years had been in a great part of the province not years of full crops, and in the three "districts of Saugor, Damoh, and Jubbulpur they had been years of widespread failure of the important rabi harvest." Up to August the rams had been favourable, and the cultivators in the expectation of a good harvest had parted with much of their surplus produce, which had been exported to other provinces where prices were higher. Prices in the provinces had now gone up with a bound: and "after "four years of hardship and short harvests, the agriculturists find themselves in face of a prospect of some pressure which cannot be expected to slacken until "the next monsoon, it may be hoped, brings back normal weather conditions "The cumulative force of these adverse circumstances makes the position one of great gravity." A provisional grant of five lacs for starting relief works was asked for and was given. In November a further grant of 10 lacs was asked for with the object of giving advances to agriculturists for irrigation tanks and other similar works of improvement in certain districts, especially in the rice country of Chhattisgarh, which would furnish employment to the people in the neighbourhood of their homes. "The money spent will be recovered with "interest, the people will be kept from wandering and starvation, villages will be held together, and cultivation will be rendered secure in-tead of precarious." Before this application was acceded to some discussion took place as to the restrictions which should surround such expenditure. It was explained to the Chief Commissioner that in a time of financial pressure the Government of India could not find funds for advances for land improvements except under conditions that would e

37. In the middle of December the Chief Commissioner reported fully on the situation. The kharif was in no district better than half an average crop. The rabi crops had germinated better than had been expected, but the area sown was less than usual and some sowings had failed. As the position of each district greatly depended on the character of the harvests of the three preceding years they fell conveniently into the groups given in the table below:—

														3)			
ŧ	A			ВС					Poor Bad				Bad	-				
	Sambalpur	Nimar	Obbindwara	Wnrda.	Nagpur	Chands	Raipur	Bllaspin	Botul	Mandla	Bront	Natzingpur	Ho-bap-abad	Bhandara.	Balaghat	Jubbulpur	Dumoh	Saugor
Fatimated anna out- turn of current hard	10	9	5	8	8	8	+	5	4	3	4	6	5	6	3	5	,6	5
Proportion of Kharif		87	58	60	50	66	69		61 39	67 33	48 52	37 63	27	63 37	75 25	48 52	54 54	48 62
Present prospect of spring crop	2	Pour 13	42 poop	Good 5	Good S	34 poog	Good 1	36 200g	Poor	Good	Good	Fair 3	Fair	Good	Good	Good	Fair 3	52 28

Groups A and B gave little cause for immediate anxiety, as past harvests had been good or fair and the present harvest was less deficient than elsewhere C the crops of 1895-96 had been good, but the poor yield of the standing khary in de some distress certain, especially in Mandla. In group D the situation owing to three bad years, the badness of the kharnf crop, and the prospect of a poor spring harvest in the Nerbadda districts, where rabi is the principal crop, was very "The great majority of the classes in the provinces who will suffer most " are almost entirely dependent on the autumn crops-rice, juar, and the smaller " millets Nearly all their land is cropped with these grains, and when these fail, "as they have this year almost everywhere failed, the most plentiful outturn of "wheat and grain is, apart from its effect in lowering the general price of food stuffs, of little or no benefit to the people" "We must," the Chief Commissioner continued, "be prepared to face continued and general distress till well on in July or August. In some parts, notably Saugor, Jubbulpur, Balaghat and parts of "Damoh, past years have been so bad, and the people are so depressed and " impoverished by the calamities of successive seasons, that it will take at least a year of renewed agricultural prosperity to make the poorest classes independent ' of Government relief.

38. The scheme of relief contemplated the opening of village works by the civil authorities in all localities where scope for such works existed, as the first stage in the organization of famine relief. The main thing to be done, it was thought, was to keep the people on their land and to provide sufficient work and food for them near their homes to prevent their throwing up their holdings before better times came round. As distress deepened and the number of persons to be relieved grew, large road works were to be opened under the management of the Public Works Department. For the provision of gratuitous relief, poor-houseshad been established at centres. These were to be supplemented by more numerous relief centres brought nearer the homes of the people, with small works attached to them for enforcing a task on applicants for relief capable of doing light work Gratuitous relief in the homes of the people might eventually have to be organized. but this was thought not to be an urgent matter

39 This scheme is open to criticism as being adapted to a much lighter calamity than that which actually had befallen the provinces. Distress speedily outran the village works and the poor-houses on which reliance was placed. The relief centres and the poor-house population grew to unmanageable dimensions As events showed, it would have been better had large relief works under the Department of Public Works been started and village relief organized, at an earlier date. Unforseen delays occurred in the publication of the departmental programme and the organization of the work-establishments. Village relief could not be effectively administered by the district staffs until they were reinforced by British military officers lent for the purpose by the Military Department, and this took time. The order in which the districts were placed with reference to the degree of distress anticipated in each has proved generally correct, except that as time went on the centre of distress shifted from the Kerbadda Valley to the rice districts of Bilaspur and Raipur, and the plateau districts of Betul, Mandla and Seoni in the Satpura range.

40. A brief intimation of extensive crop failure in the Deccan and Southern

Mahratta country was made by the Bombay

Government in November. The full report

was delayed till January, as a good fall of rain towards the end of November was thought to have materially altered the outlook and rendered comparatively useless the calculations previously made. The area reported to be affected was about 42,000 square miles and comprised the whole or portions of eight districts, with a population of 62 millions. It was stated that the kharif crops, where they had

Bijapur. Nasik.
Shqiapur Satara,
Belgaum Ahmednagar.
Peona. Khandesh.

not absolutely failed (as in Bijapur and Sholapur), had yielded but one-quarter of an average crop; that large areas had been sown with rabi chiefly after the November rain; and that the intensity of the distress in each

district depended entirely on the outturn of these crops. It was feared that owing to subsequent dry weather the crop sown after the November rain would, except in favoured localities, come to nothing. Prices were extraordinarily high and the pressure on the poorer classed was already severe. There were 167,000 persons already on rehef works, and the numbers were rapidly increasing. It was proposed to concentrate labour as much as possible on a few large works and to restrict village works to persons who for various reasons could not leave their homes. There was a keen demand for advances for wells among the agricultural classes, and it was considered that much employment could thus be economically provided. Steps were being taken to open poor-houses, and gratuitous relief was already being given on a small scale in villages to persons unable to labour. The condition of the cattle, owing to the scarcity of fodder, was very serious. Numbers had already died or had been sold for slaughter in Bijapur and Sholapur. The people were being urged to take their cattle to the forests where there was grazing to be had. And to provide for cattle which could not thus be moved the Forest Department had arranged to cut and press grass and place it in depôts at the railway stations. A prominent feature of the distress in the Presidency was the large number of weavers in need of relief. In some towns there were thousands reported to be in search of employment. The great majority of these the local Government considered would require no special provision and could find employment on the ordinary relief works. Only to such as were deemed incapable of thus gaining a livelihood was semi-gratuitous employment in their own craft to be given.

- 41. The decision in this scheme of relief to depend on large works professionally managed has been consistently adhered to with excellent results. The unnecessary expansion of relief which follows the opening of numerous small works was avoided and a very useful distance test was thereby indirectly applied. On the works hutting accommodation was provided for the workers, and as a further test residence upon the work has in some cases been made compulsory. The special fodder arrangements appear the have proved useful. A very large quantity of pressed grass was placed in the districts by the Forest Department, and was disposed of at prices which covered all outlay. Special relief to weaversank to very small proportions. When it was found that they readily took to employment on the ordinary relief works, and physically improved through the labour, the Bombay Government ceased to make special arrangements for the weaver class, and left it to municipalities in which weavers were numerous to do so from municipal funds if they thought fit. On the recommendation of the Bombay Government the Imperial Legislative Council passed an Act (XII. of 1897) enabling municipal corporations to befrow money for this object. This Act, however, has been very sparingly resorted to by municipalities in Bombay Presidency, as it was found that the cost of the relief proposed to be given was out of all proportion to the number of persons to be relieved.
- 42. The fears of the local Government that such of the rab crops as were sown after the November rain would, except where irrigated, fail to come to anything proved correct. In February and March the Director of the Agricultural Department after visiting the affected districts reported on their condition and the state of the crops. Of Sholapur he write: "Up to November large areas remained "altogether unsown. In that month rain fell heavily in the northern and central portions of the district with the result that even more than the usual areas were

"sown with rab:. The crops on these, though germinating admirably, have come "to nothing but growth from 12 to 18 inches high, which will yield nothing but a very little fodder for cattle" In Bijapur all vestiges of these November crops had disappeared. "It is difficult to conceive anything more distressing than the appearance of the district as it presented itself to the eye of the observer. "entering it from the north in the month of January. Except in the neighbour-"hood of wells and of the rivers, there was scarcely a blade of green to be "discerned. In the neighbouring parts of the Sholapur district the November "rain had encouraged the cultivators to sow large areas, and the land was covered "with the decentful promise of a rabi crop. In Bijapur the country was as bare as the palm of the hand." Bijapur and Sholapur were the worst districts Byapur virtually had no harvest at all, neither kharif or rabi, the total yield of the year representing less than one month's food for the population In the seven Deccan districts inspected the total food-production of the year was returned at only one-fourth of the normal outturn.

43 The first report of the Revenue Board which the Madras Government transmitted in November 1896 fore-Madras shadowed a widespread failure of crops in the horthern districts, especially in the rice-tracts of Ganjam, and in the Deccan and parts of the Central districts The deficiency in the September and October rainfall was very serious. The tract where the deficiency was greatest comprised a broad belt of country traversing the four Deccan districts of Bellary, Kurnool, Anantapur and Cuddapah—districts which are habitually liable to drought. The harvests of the two previous years had been good, and prices in the Deccan had in June 1896 fallen to the low level of the years preceding the great famme of 1876 Large stocks had accumulated, and but for the the great tamine of 1876 Large stocks had accumulated, and but for the scarcity prevailing throughout India the province would have been exceptionally well able to withstand a bad year. But from September grain had been drained from it to Northern India, and prices had advanced by leaps and bounds under the influence of this export and from the reluctance of the cultivators to part with their stocks. Prophecies were current of a fatal three years' cycle of drought, and every well-to-do ryot locked up his remaining store of grain. The poorer classes were already hard pressed. There was little employment in the fields and the immediate opening of relief works was necessary. The situation was said to be outside the experience of the present generation in famine administration. to be outside the experience of the present generation in famine administration. "Hitherto," wrote the Board, "it has been held that scarcity rates and famine "were the results of the failure of two or more seasons. In the present case the "failure of a single season has resulted in warning or scarcity rates, and for the "poorer classes, which habitually have to buy grain, the latter mean distress and

44 In December the Revenue Board were able to report that heavy rain in the last week of November, followed by a copious north-east monsoon in the southern half of the Presidency, had materially reduced the scarcity area, and had brought about a substantial fall in prices. The affected area was now confined to the belt of country in the Deccan, with a population of 1½ millions, and to parts of the Ganjam and Vizagapatam districts. Relief works in the form of road-repairs had been opened by the district authorities. On relief works and in kitchens about 20,000 persons were receiving relief, but the numbers were not increasing. The people were generally in good condition. The weaver class, a class which is very numerous in the Madras Presidency, was specially distressed owing to slackness of trade and absence of demand for textile goods, and relief at their own trade had been organized for weavers in Bellary and Cuddapah. No gratuitous relief in the homes of the people had as yet been found necessary. In Ganjam test-works had failed to attract labour. In the Deccan, fodder for the cattle was very scarce, and large numbers had been driven off to the Mysore pastures. Compared, however. with other parts of India the affected area in the Madras Presidency appeared from the report to be relatively small. Nor was it at first anticipated that from the report to be relatively small. Nor was it at first anticipated materials on a large scale would be necessary. In the financial estimates for 1896—97 a sum of only 25 lacs for expenditure on famme rehef in Madras was provided. But from April 1897 rehef rapidly expanded, the expenditure soon outran the 25 lacs, and at the end of July when rain still held off in the south of India there were more persons on relief in Madras than in any other province.

" famine, unless their condition is alleviated."

In April the labour task was reduced and the daily wage raised by the local Government in the belief that the conditions of relief hitherto prevailing had been two stringent. Gratuitous relief in the homes of the people was also commenced on an extensive scale, and increased provision made for the special relief of weavers at their trade. To this change of policy the rapid growth of the numbers on relief must in a large measure be ascribed. It will be seen in the sequel that the Madras Government recognised that liberality had gone too far, and as the agricultural outlook improved it took steps to restrict relief within proper bounds

45. In Central India the probability of severe distress occurring in many of the States of Bundelkhand and Baghelkhand Native States Native States
was recognised early in October 1896 by
the Governor-General's Agent
Bad seasons had been experienced for three years, and many of the States, through no fault of their own, were at the end of their resources. The condition in Rewa, the largest State in Baghelkhand, was found to be very bad, and in Bundelkhand the population of the small States forming that Agency was much distressed. The question of funds was reported by the Governor-General's Agent to be very serious. In the Bundelkhand Agency but six out of twenty-three States had been able to make their own relief arrangements. As funds in the other States were exhausted, he obtained from the Government of India a loan of two lakes on their behalf to keep the people above Shortly after this His Highness the Maharaja Sindhia of Gwahor volunteered to lend money to distressed States through British officers, and after the fullest enquiry and consideration the Governor-General's Agent was authorised to arrange such loans on the basis of interest at 4 per cent guaranteed by the British Government. These loans were to be made subject to the conditions that the resources of the applicant State were exhausted, that the Chief agreed to be guided by the Political Agent in famine matters, and agreed also that his State would be liable to be taken under direct management by the Indian Government on his failure to repay the loan. This arrangement has worked very well. The loans have been of invaluable assistance to the poorer States, while the conditions on which they have been made were well calculated to bring home to the rulers their responsibilities and to induce them to study and enforce economy loans were confined to States within the Central India Agency. Outside that Agency the States in which relief measures were needed were comparatively wealthy and did not require such assistance

46 To advise the States in the administration of famine relief, to see that relief was being given wherever wanted, and that it was given on right principles, an officer, Lieutenant-Colonel A. P. Thornton, of the Political Department, was deputed to visit them in order. Bikanir was first visited, as complaints had been made by the Government of the Punjab that subjects of that State were crowding on to relief works in Punjab districts. From Bikanir he proceeded to Bhartpur and Dholpur, two other States in the Rajputana Agency, and thence to Gwalior. Bundelkhand and Baghelkhand. This tour proved very useful to the States concerned, and also fully informed the Government of India of the situation in each State. In the most affected States Assistant Political Officers were given to the Political Officer in charge, to enable him the more effectively to keep himself informed of the progress of relief and to advise the States. But care was at the same time taken not to impair in any way the responsibility of each State for providing for the relief of its subjects. Very praiseworthy efforts were in many cases made by the Chiefs, and a great deal of good work was done, though, as might be expected, in a less systematic way than the Famine Codes of British India contemplate. In the most distressed tracts relief measures occasionally lagged behind the requirements of the case, and the fact was at once proclaimed by the migration of the subjects of the State in troops to adjoining British districts. In the Nizam's Dominions serious distress was not at first apprehended, as heavy rain in November had done much good to the crops and had encouraged the cultivators to sow more land for a late crop. But as December and January went by without rain, the November sowings came to nothing, food became dear, and the agricultural labourers were without employment. The Nizam's Government promptly recognised the situation, and opened relief works, and suspended payment of the land-revenue, in the distressed tracts.

VI.—The second period. From the commencement of relief operations to the close of the spring harvest.

Growth of distress

the distressed tracts became more distinctly defined. It has been already said that the out-turn of these crops was much below the average, partly because the areas sown were less and partly because sowings on unirrigated lands either failed to germinate or gave a very poor return. Thus the mequalities between field and field and between district and district in the matter of yield were much greater than in ordinary years. In the Bundelkhand districts and in Hissar, where there is very little artificial irrigation and where little rain fell during the winter months, the harvest was miserable and added little to local food stocks. Their exhaustion was seen in a continuous import of grain from other districts. In the Central and Northern Punjab, in the canal districts of the North-Western Provinces, and in parts of Oudh and Behar, much of the crop was good. From there grain was drawn to the distressed districts, and this demand, conjoined with the reluctance of the cultivators to sell, kept prices in these tracts up to famine level. In the Central Provinces the winter crop of 1896–97 occupied only three-fifths of its usual area and much of it was poor. Here also the spring harvest failed to replenish depleted local stocks or to bring down prices. Rice growing districts like Bilaspur and Raipur in the Chhattisgarh Division of the Central Provinces have no winter crops to speak of, and no alleviation in their condition through the spring harvest could be expected. In Ganjam and Vizagapatam in the Madras Presidency rice is likewise the staple crop, and here also the distressed tracts went from bad to worse. In the Bombay and Madras Deccan the late crops failed in most places, and their harvesting had no effect on prices or on the general condition of the people.

48. The growth of relief from the commencement of relief operations to the end of April 1897 is shown in the table below :—

		Numb	er of Pers	ons in bece	ipt of Belii	EF AT THE E	ND OF EACH	монтн
Provinces,		October 1896	November 1896	December 1896	January 1897,	February 1897	March 1897	April 1897
Madras		_	28,410	26,330	42,363	65,835	104,955	231,650
Bombay			10,409	239,356	325,695	412,259	454,443	403,818
Bengal			3,384	91,410	338,810	410,002	535,333	678,972
North-Western Pr inces and Oudh	ο⊽-	40,880	145,697	496,875	1,254,108	1,647,529	1,010,616	1,248,496
Punjab	•••	5,902	10,919	53,073	97,259	123,738	102,474	87,971
Central Provinces		_	_	167,189	284,287	351,263	475,644	581,963
Burma		2,998	20,337	30,134	33,230	26,128	23,605	16,728
Berar .		_			_	11,111	15,627	23,160
Total	••	49,780	219,156	1,104,367	2,375,752	3,047,865	2,722,697	3,272,758
Native States								
Hyderabad			-	-	-	4,509	4,414	26,843
Central India .		15,969	Not re-	30,876	69,062	137,040	100,246	149,596
Rajputana	•••	8,019	ported. 34,807	47,254	25,041	19,469	29,808	21,690
Total	•••	23,988	34,807	78,130	94,103	161,018	134,468	198,129
GRAND TOTAL	•••	73,768	253,963	1,182,497	2,469,855	3,208,883	2,857,168	3,470,887

On the 30th April there were 3,272,758 persons in receipt of relief in British India and 198,129 persons in receipt of relief in Native States. The greatest number attained in any province during this period was 1,647,000 persons in the North-Western Provinces and Oudh at the end of February. In the middle of March the spring harvest in those provinces afforded employment in the fields and withdrew labourers from the relief works. In the Bundelkhand districts of the same provinces the ripening of the flower of the mahua tree (Bassia latifulia), which in a dried state is very largely used as an article of food throughout Central India, gave further employment to the people, and brought a supply of cheap food within their reach. All this tended to relieve the pressure on the relief works during March and accounts for the fall in the numbers on relief in the North-Western Provinces and Oudh at the close of the month. In April they again began to rise. The effect of the spring harvest in the Punjab is seen in the drop in the April numbers, the harvest there being later. In Bombay the fall in April was due to greater strictness in enforcing tests of distress, especially in the matter of allowances to non-working children. In other provinces the growth of relief is continuous throughout the period, and any tendency which the spring harvest had to draw labour off the relief works was more than counterbalanced by the extension of relief into new areas as the area of distress wideaed.

49. As relief varies in character according to the circumstances and physical powers of persons relieved, an analysis of the aggregate volume of relief given on the last day of April is of interest. This is effected by the figures below:—

,	EMPL	OYED ON R WORKS	eliep	Employed	Total	G	BRLIEVED.	L¥	
Provinces	Workers. Der		Total.	on test works	employed on works	In poor- houses or kitchens	In their homes.	Total,	GRAND TOTAL
Madras	184,207	10,266	194,478	7,202	201,675	4,267	25,708	29,975	231,650
Bombay	292,752	79,477	872,229	973	373,202	434	30,182	30,618	403,818
Bengal .	345,037	81,998	377,035	9,518	386,548	3,244	289,180	292,424	678,972
North-Western Prov- moss and Oudh,	781,848	145,588	927,431	7,455	934,886	26,819	286,791	318,610	1,248,496
Punjab .	60 684	14,247	74,981	116	75,047	1,666	11,258	12,924	87,971
Central Provinces	405,290	75,952	481,242	-	481,242	21,258	79,463	100,721	581,963
Burma	13,320	_	13,820	-	18,320	-	3,408	3,408	16,728
Berar	20,265	_	20,265	_	20,265		2,895	2,895	28,160
Total	2,103,898	857,528	2,460,926	25,259	2,486,185	57,688	728,885	786 578	3,272,758
Native States									
Hyderabad	28,844	_	23,844	-	28,844	-	2,999	2,999	26,848
Central India .	182,018	- ,	132,018		132,018	-	17,578	17,578	149,598
Bajputana .,	14,546		14,546	-	14,548	 -	7,144	7,144	21,690
Total	170,408	_	170,408	-	170,408		27,721	27,721	198,129
GRAND TOTAL	2,278,806	357 528	2,681 934	25,259	2,656,593	57,688	756,606	814,294	3,470,887

50. From these figures it will be seen that more than three-fourths of the persons relieved were employed on public works, the remainder being shown as gratuitously relieved. Labour for all who can do a reasonable amount of work, and gratuitous relief, as far as possible in their villages, for persons incapable of labour, constitute the two main divisions of famine relief. For wanderers and professional beggars poorhouses are provided, but except in the North-Western Provinces and Oudh and the Central Provinces the number of persons so relieved was very small. Gratuitous relief in villages was given most extensively in the two provinces of Bengal and the North-Western Provinces and Oudh, and in Bengal the number of

persons so relieved bore a very high proportion to the number on works. In other provinces up to the end of April this form of relief was sparingly resorted to. In the next period of the famine a very marked change in this respect will be seen in the Central Provinces. No subject during the late famine has been more continuously under observation and discussion than the proper limits of this system of "outdoor" relief in the homes of the people, and it undoubtedly constitutes one of the most difficult and delicate questions in famine administration. A few remarks on the point may therefore not be out of place. The Famine Commission show that in the earlier famines the obligation of relieving persons other than the able-bodied was not recognised by the State, and was considered to rest with the charitable public. The first step to the recognition of the responsibility of the State in this respect was by the institution of poor-houses or kitchens where relief was given in the form of cooked food, with or without the condition of residence. The next step was taken in the Behar famine of 1873-74, when village inspection and village relief were prominent features of Sir Richard Temple's organization was mapped out into small circles, each superintended by a relieving officer, and it was made his duty to discover within his circle all cases of distress which could not be met by the offer of employment on works, and to arrange for the weekly or monthly distribution to such persons of doles of grain or money, availing himself, so far as was possible, of the services of the village headman. The Famine Commission clearly recognised that under this system where no test of distress can be applied the difficulty of distinguishing the worthy from the unworthy must be great. But they noted the fact that the poor-house system was regarded by the people with extreme repulsion, and that it involved the was regarded by the people with extreme repulsion, and that it involves an uprooting of families from their homes and the breaking up of social bonds. The Famine Commission accordingly came to the conclusion that the village system was preferable for general adoption "insomuch as, while this system may "involve the risk of a too free grant of relief, the poor-house system involves the more senious risk of insufficient relief." To it they looked for the prevention of the more senious of the recovery famine time "which leads to the dissolution of the the wandering of the poor in famine time, "which leads to the dissolution of the "village communities, and is one of the principal causes of famine mortality." . They thought that if work on the task system commensurate with the capacity of each labourer was offered to all persons capable of doing a reasonable amount of work, the incapable poor who would be supplied with food in their homes would not form a large percentage of the population; and they believed that by means of a complete chain of inspectors in each local area with a European officer at their head abuses could be prevented. The system of gratuitous relief approved by the Famine Commission has been introduced into the Famine Codes, but by the ramine Commission has been introduced into the ramine Codes, but the present is the first occasion since they were framed on which it has been extensively applied. In the Behar districts of Bengal the percentage of persons gratuitously relieved in their homes was as high as 5 and 6 per cent. of the total population of the distressed tracts. In the North-Western Provinces and Outh the proportion has exceeded 3 per cent. in three or four districts only, while in many districts it was less than 1 per cent. In other province exceed pairs in many districts it was less than 1 per cent. In either province special pains have been taken to make the supervision efficient and to confine relief to deserving cases, and in either province the local Government is satisfied that it has been the means of keeping together the village and family organization and in preventing wandering and mortality. The intensity of the famine in parts of the North-Western Provinces and Oudh was such that gratuitous relief in the homes of the people on a large scale was inevitable. But the Bengal figures gave cause to inquires on the part of the Government of India. local Government has explained them by reference to the chronic poverty of the dense population of Behar and to the rapid drying up of the springs of private charity as a consequence of this poverty on the first approach of hard times. The great preponderance given in Bengal to gratuitous rehef still, however, remains singular and as yet not fully explained. It may be the case that necessitous cases were more completely tracked out in Behar by the very strong rehef establishments entertained there, than was possible in other provinces where the staff was weaker and the area of distress more extensive. It is also probable that the strictness with which tasks have been enforced on the relief works in Behar indirectly resulted in a comparatively large number of persons being placed on gratuitous rehef, since they were found unable to perform what was held to be a reasonable amount of work. In other provinces where less attention was paid to In other provinces where less attention was paid to the amount of work obtained from the relief workers, persons were admitted to the works whose labour was of a nominal character, while the number of women and children among the workers was much in excess of what was required or could be profitably employed. This was in accordance with the principle that it is better to accept all inefficient labourers offering themselves than to place them on gratuitous relief in their homes. Though the labour they are capable of may be of little or no value, they submit, it is held, to a distinct test of distress in the very act of appearing on a relief work. In Bengal inefficient labourers were in principle admitted to the relief works, and the local Government after inquiry came to the conclusion that the gratuitous lists contained the names of no persons who were capable of labour. But there is little doubt that inefficient labourers were in smaller proportion on relief works in Bengal than elsewhere. This appears both from the comparatively few women and children on relief works in Bengal, and from the high tasks which were obtained from the gangs. A difference of system in the management of relief works is indicated, which on the face of it had something to do with the large numbers in Behar on gratuitous relief in their homes. Such divergencies in the methods of relief administration in the different provinces do not necessarily imply that one province has been right and the other wrong. The cause may lie in the special circumstances of the case In Behar the relief works were small and numerous and within easy reach of every village. If great attention had not been paid to exacting a high task from the labourers and thus indirectly eliminating inefficient persons, the works would have attracted unmanageable crowds, and this might have been a greater danger than some excess in the matter of gratuitous relief. It may also be mentioned in noticing the high percentage of gratuitous relief in the homes of the people in Behar that in other provinces more gratuitous relief on the relief works themselves was given than was the case in Behar. Under what conditions and to what classes this second form of gratuitous relief is given will be explained later on when the system of relief works is discussed.

51. In the Central Provinces the scattered and sparse population, the migratory habits of the aboriginal races, the defective communications, and the weakness of the establishments at the disposal of the administration, made the effective organisation of village relief peculiarly arduous. Pending its completion the expedient of "relief centres," where food was supplied to all comers in obvious need of relief, was provisionally adopted. To these relief centres was often attached a small relief work, such as the excavation of a village tank or the repairing of a road, and when this was the case able-bodied applicants for relief were required to perform a task as the condition of relief. These centres proved very useful in the wilder tracts, and as a simple and summary method of relief they were frequently resorted to in places where distress unexpectedly made its appearance before regular relief works could be opened. But they tended to become unmanageable as the applicants for relief increased, and were gradually discarded, except in the wilder tracts, as relief operations were systematised. Both in poor-houses and in relief centres in the Central Provinces the mortality was very high in the early months of the famine and attracted public attention. The death statistics of these institutions collated by the local Administration show that a large proportion of the deaths were those of wanderers from native territory or other parts of India. This was especially the case in the Nerbadda valley districts which form the natural channel of communication between Central India and the fertile south, and which in all seasons are resorted to for work and food by thousands of immigrants from the north. But many of the deaths were those of aborigines or of residents of other districts of the province, indicating the prevalence of wandering to a lamentable extent. This aimless wandering of hunger-stricken persons has often characterised great famines in the past, and however vigilant the administration, it is likely to occur

In Madras and Bombay during this period the administration of poor-houses and gratuitous relief in villages presents no features of special interest.

52. Turning now to the main branch of famine relief—the relief works—the
Gratuitous relief to "dependants" gratuitous relief given in connection with
them may in the first place be noticed.

The wage earned by a relief-worker is not intended to be more than a subsistence

wage. If therefore the people come in families to the relief works, there will be a certain number of children below the working age, and of infirm adults, to be provided for. The Famine Codes allow these non-workers to be gratuitously relieved as "dependants" of the relief-workers, the relief taking the form of money or cooked food. The proportion of dependants to the workers varied greatly, as will be seen from the analysis of the population on relief at the end of April, in different provinces. It was 18 per cent, in the North-Western Provinces and Oudh, and 26 per cent, in Bombay. In Bengal and Madras it was only 9 per cent and 5 per cent respectively. These variations were due to the relative extent to which in each province the relief-work population resided on the works; and the practice of residence again depended on the distance of the works from the homes of the people, and on the degree to which residence on them was encouraged, or was enforced as a test of distress. In the North-Western Provinces and in Bombay large works at considerable intervals were the rule, and residence on them was practically obligatory for the majority of the workers, coming as they did from long distances. Whole families settled down on the works, and the non-working members had to be gratuitously relieved. In Bengal the works were so numerous and scattered that there was very little residence on them. The workers came from and returned to their villages daily, and their wives and children, if entitled to gratuatous relief, were relieved in their homes, and not as "dependants" on the works. The same was the case in Madras.

53. To the relief worker the gratuitous relief of his "dependants" is very attractive, especially when it takes the form of cash. In Bombay the large number of non-working children brought by women to the works in the first months of the scarcity led to inquiry which resulted in the discovery that many of the children belonged to persons who did not attend the works and that they were lent for the occasion. This practice was stopped by the institution of children's kitchens in connection with the works and the discontinuance of the money dole. Elsewhere a similar change was necessitated by the neglect of parents to feed their children, though receiving money for their food. It was found that they either spent the extra allowance on themselves, or saved it against the day when the works would be closed. Famine weakens family affections, and there is no clearer sign of its severity in a given locality than the condition of the children. Wherever children's kitchens were substituted for cash allowances an immediate improvement in the health of the children ensued. The experience of the late famine is conclusive on the point that when distress becomes severe, parents cannot be trusted to provide for their offspring.

54. This fact constitutes one of the arguments in favour of the retention of the present relief wage system of the Famine Codes, demoralizing though it may seem in some of its aspects. Under this system the relief worker, whatever may be his working capacity, is restricted to a bare subsistence wage. The extra allowances receivable by him for non-working members of his family depend not on his industry but on the size of the family. The alternative system, which is not without its advocates, is to permit the worker to earn enough by exceptional industry to support himself and the persons dependent upon him. It is easy to see that this would result in the State paying many of the workers more than they actually require for their own subsistence, without any guarantee that the young, the aged and infirm would be kept alive. When distress is slight this consideration has not the same force, and if sufficient wages are offered to the people the care of their dependants may be left to the able-bodied as in ordinary times. In slightly affected areas during the late famine several varieties of the piece-work system, under which the worker is permitted, in proportion to his industry and skill, to earn a wage in excess of a bare subsistence for himself and receives no separate allowance for his dependants, were tried with success.

55. The first period of the famine was occupied in all provinces with the the organization of relief works, and in connection with this the disposition of famine labour much attention. Such disposition includes (a) the selection of suitable works of permanent public utility; (b) the management of the works by a competent staff; (c) the proper classification and remuneration of the relief workers; (d) the proper tasking of the workers; (e) the adoption of other self-acting tests of distress.

56. The selection of suitable works for the employment of relief workers is a matter of greater difficulty than it at first sight seems. Under the ideal system there (a) The works selected. should be in every distressed area one or more projects of permament utility, specially prepared and reserved for the emergency of a famine. Such projects should be capable of giving employment to a large body of labourers for several months, and as the labour is unskilled, they should preferentially consist of earthwork or of quarrying and preparing metal for roads. Railway earthwork, canal and dramage excavation, road-making and road-repairs, and tank construction almost exhaust the category of such possible works. But there are many districts for which no new railways are proposed, in which no canal can be made, and where tanks of large size for irrigation purposes are not required. In such cases road earthwork and the collection of metal are usually the one form of labour on road earthwork and the collection of metal are usually the one form of labour on which the rehef population can be employed, and the quantity of such work that can usefully be undertaken is necessarily limited. The Punjab was fortunate in having two canal projects (the Ghaggar canal in the Hissar district and the Jhelum canal in the Gujrat district) ready for immediate execution in the distressed tracts, besides the earthwork for several branch railways. In Upper Burma canal projects were also available. In Bombay the collection of roadmetal was first resorted to, but when it was seen that a supply sufficient to last for years was being accumulated, several large tank projects for irrigation purposes and railway earthwork were commenced. In Madras there was a singular scarcity of large projects of permanent utility, and the relief gangs have been employed on road repairs and the collection of road metal. In the Central Provinces the earthwork of the Raipur-Dhamtari railway gave some Central Provinces the earthwork of the Raipur-Dhamtari railway gave some employment in the Raipur district, and that of the Katni-Saugor railway in the Saugor district; but road-work here also has been the chief resource In the North-Western Provinces and Oudh also road-work has been the chief form of employment, and in the worst districts every existing unmetalled road has been put into thorough repair and often raised and widened, and many new roads constructed. Village and road side tanks within a certain distance from each road so operated upon were also deepened and improved as part of the road project. the North-Western Provinces and Oudh and to a lesser extent in the Central Provinces the road-works, which were almost invariably large works giving employment in each case to 2,000 workers and upwards, were supplemented by numerous small works, such as village roads and tanks, for the employment of small bodies of labourers. The difficulty of effective supervision over such scattered works was recognised, and to meet it the aid of the local landowners was called in. They would agree to construct a given village work for a certain sum, covenanting to employ distressed persons only and to pay them famine wages. In some cases the cost was shared between the landowner and the Government, in others the Government bore the whole cost. But in either case the landowner had a strong pecuniary interest in getting a full day's work out of the labourers. No return of the village works constructed through this agency of the labourers. No return of the village works constructed through this agency has yet been received, but they are known to have been numerous, especially in the Allahabad Division of the North-Western Provinces and in the Chhattagarh Division of the Central Provinces, where the country lends itself to the construction of small tanks for the storage of water. As subsidiary to large works under direct State management these "village works" have proved very useful, but neither in the Central Provinces nor in the North-Western Provinces has it been found safe to trust to them alone. A backbone of large works on which labourers can be employed in thousands under strict professional supervision and control was held in both provinces to be essential. or large works on which labourers can be employed in thousands under strict professional supervision and control was held in both provinces to be essential. In Bengal there were no large projects ready in the first months of the famine, and, owing to the character of the country, tanks were preferred in Behar to road-making. A few of the tank projects were large, but the majority were virtually "village works." And, being comparatively small, the works opened in each district were necessarily very numerous. Effective supervision would not have been possible had not the special famine establishments in Behar been exceptionally strong. ally strong.

57. From what has been said above, it will be understood that there is less to show in the way of permanent public utility for the enormous quantity of famine

relief labour which has been employed by the State than could be wished. This is more or less inevitable whenever labour is employed for reasons other than because it is wanted. But more attention may usefully be directed in future by local Governments to the preparation of famine-relief projects, especially in provinces where during the late famine difficulty has been experienced in providing large works of undeniable utility.

Except in Bengal, where, owing to the numerical weakness of the Public Works Department it was found necessary (b.) The controlling staff. at first to place almost all relief works under the civil officers, the immediate direction of the larger relief works was from the outset entrusted to officers of the Public Works Department. But as such works are carried on on the principle of giving effectual relief to the labouring population and not of getting the greatest quantity of work done at the cheapest rate, civil officers were associated with the officers of the Public Works Department to see that the labourers were correctly classified and properly paid and tasked according to their strength. In such a system of dual control there is obviously room for discussion as to the limits of the respective powers of the civil and professional authorities unless they are clearly defined beforehand. The Famine Codes have been found to be wanting in precision in this respect, though fortunately in most provinces this has not been productive of many difficulties. In Madras a certain amount of friction appears to have arisen, and the professional officers would seem to have been subordinated to the civil authorities to a greater extent than elsewhere The question chiefly arises as regards the regulation of tasks and the imposition of fines for short work. Viewed in the light of results the Madras practice compared unfavourably with that of other provinces where greater powers in all that appertains to the technical management of relief works were given to the Department of Public Works.

58. The classification and wages of the relief workers are prescribed in much detail by rules in the Famine Codes which elaborate the principle laid down by the

Famine Commission that to all who can do a reasonable amount of work shall be given "a task carefully adjusted to their powers" and "a wage on which life and health can be maintained". These rules are in the main based on the experience gained in recent scarcities. But they had not been tested on a large scale, and the test to which this year they have been subjected has shown that they are capable of improvement. In some respects their provisions are imperfect and in others greater flexibility of system is desirable to suit the very diverse conditions which the famine administrator has to meet. The first in the field in the matter was the Government of the North-Western Provinces and Oudh Profiting by its experience in the previous year in Bundelkhand that Government supplemented its Famine Code by a large body of instructions which appear to have worked well, and which in substance were adopted in Bengal and the Central Provinces In the classification of the relief-workers and the wage-scale some important changes were made. The Famine Codes recognise four classes of labourers—the professional digger or navvy, the able-bodied worker who is not a professional but who is accustomed to hard manual labour, the able-bodied person who is not accustomed to manual labour, and the weakly person. It is contemplated that these four classes of workers should do tasks graduated according to their respective capacities, and be paid according to a graduated wage scale. In this scale the wage for each class is a ration of so many ounces of flour and pulse, with a little salt and condiments, converted into cash according to the market price of the ration. At the bottom of the scale is the wage of the weakly person whose employment is presumably nominal, and who is presumed to require less food than the able-bodied workers. The wages of the other three classes are built up from this minimum wage. The Government of the North-Western Provinces and Oudh in its instructions simplified this classification. As the relief workers are ordinarily employed on earthwork of the simplest kind, needing only two classes of labourers—the digger and the carrier—the instructions recognised two classes of workers only, and two rates of wage. The carriers who formed the great mass of the workers and who were chiefly women and children, received a wage which was practically the minimum wage of the Code. The digger received a somewhat higher wage. When the price of grain was Re. 1 for 10 seers, the digger's wage was 1½ annas and the adult carrier's 1½ annas. The child over 12 received 1 anna and the child between 7 and 12 half an anna. Under this system the average remuneration of the famine labourers was less than what it would have been under the Code. But it seems to have been found sufficient to keep the workers in good health. For Sundays they received a holiday wage, and additional allowances for the non-working members of the family. In this way the aggregate wages of a family of five persons possibly amounted to Rs. 8 or Rs. 10 a month. With food at normal prices this would be riches to an Indian villager: and even with food at famine prices it is said to have allowed a small margin for saving.

- 59. While the wage-scale of the Code was considered in Upper India to be if any thing too liberal, it was found fault with in Madras for being too low. Influenced by the reports of its Sanitary Commissioner on the condition of the relief work population, the Government of Madras represented to the Government of India that the lower grades of the wage scale were insufficient to maintain workers in good health. Into the details of the discussion it is unnecessary to go. The view taken by the Government of India was that the scale had been found sufficient in other provinces, especially in Bombay where the conditions of life were very similar, and that a case for raising it and thereby augmenting the already very heavy expenditure on famine relief was not made out to their satisfaction. The Government of Madras acquiesced in this conclusion and the matter dropped.
- 60. Thus the final word on the question of the famine wage and the classification of famine workers has yet to be spoken. When the Provincial Governments come to review the famine operations in which they have been engaged and to consider the bearing of the experience so acquired on the Famine Codes, this question among others will engage attention. The reports of the officer deputed by the Government of India to inspect the relief works in all the provinces deal fully with it and will greatly assist to its solution. It may possibly be that no absolute wage standard, which is under all circumstances sufficient for the worker's support and not more than sufficient, can be laid down. A wage that is sufficient in a slightly distressed tract or at the commencement of a scarcity, when the workers have still some resources of their own, and when there is a risk of withdrawing them unnecessarily from their ordinary employments, may be insufficient during acute distress, or in the late stage of famine. It is a primary principle that at no time should the wage be such as to attract labour which otherwise could support itself. And when this happens, the wage has to be reduced below even the theoretical bare subsistence allowance, or else the other conditions of the rehef, such as the amount of the task or the Sunday dole or the allowances for "dependants" have to be modified.
- 61. The proper tasking of the workers is, to quote the Famine Commissioners, (d.) The tasking of the workers required "to prevent the rehef work "from being so light or unduly attractive as "to induce any to remain who are not really in want." To this matter much attention has been directed, especially in the first period of the famine. The system at first adopted in the North-Western Provinces and Oudh was to group the rehef-workers into gangs of 60 or 80, of whom about one-fourth were able-bodied diggers and the rest carriers, and to fix a daily task (of so many cubic feet of earth dug and carried) for the gang. As the carriers were usually in excess of the number actually required, any deficiency in work was the fault of the diggers. This led to the rule that if the work of the gang was short, the diggers and the diggers only were fined. As experience was gained in the management of large bodies of relief-workers and the supervising establishments became more expert, it was found possible in place of dealing with the gang as a unit to mark out the day's task for each digger, and to enforce its performance on each individual. In Bengal a smaller unit than the gang of 80 was adopted, but in other respects the system of tasking resembled that in force in the North-Western Provinces and Oudh. In all provinces the enforcement of a reasonable labour task was found to be hampered by two circumstances peculiar to the employment of famine relief-workers. The first is that the number of women and children and other inefficient workers seeking employment is usually much in excess of the efficient

male workers. In the North-Western Provinces and Oudh there were in April only 32 male adults in every hundred workers; in Bombay 31, and in Madras 27. In Bengal the ratio was much higher, the male adult workers being 46 per cent. of the whole. Now, if the work on which the relief population is placed consists of road-making or tank-excavation or other form of earthwork, inefficient labour can be employed in considerable quantities, but there is a point beyond which room cannot be profitably found for it When the point is reached, the famine administrator has to be content with a nominal task from labourers of this class, and must confine himself to fully tasking the efficient minority of workers. The second difficulty lies in the necessity of keeping the relief-population, whatever be the result of their labour, in fairly good health, and this can only be attained by paying each person a wage sufficient for his or her bare subsistence. As the full famine wage earnable by a worker who completes his allotted task is little, if anything, above a bare subsistence wage, the power of the officer in charge of the works to fine for short work is necessarily very limited. When this fact is realised by the workers, the temptation to idle is considerable, especially if they are unaccustomed to regular spade-work and the task is such that it can only be accomplished by strenuous exertion. The task therefore has to be essentially moderate, and m adapting it to the average working capacity of the people and in getting it done by them without frequent resort to fining and without deterring weak or inefficient workers a good deal of care and management on the part of the directing staff is required. The progress made in these respects as relief operations progressed appears to have been very marked in most provinces. In the North-Western Provinces and Oudh, although the inefficient labour was in large excess and low tasks the rule the amount of works the rule. tasks the rule, the amount of work obtained from the workers improved month by month. In the Punjab where the relief-workers were exceptionally able-bodied and expert, the standard of work on the Ghaggar and Jhelum canals fell little below the ordinary standard for non-famine labour. In Behar, where great attention from the first was paid to the subject and where the proportion of inefficient labour was never excessive, a high task was enforced for months. Bombay and in the Central Provinces the task imposed has, as a rull, been fully sufficient to constitute a real test of distress

This was also the case in Madras at the beginning of the period, but in April the Madras Government were led by considerations regarding the heat of the season, the distances which the workers had daily to travel to the works from their homes, and the reported weakness of some of the gangs, to authorise reductions in the tasks These reductions appear to have been injudiciously granted in not a few cases by the subordinate officials; they conferred on the relief works an undesirable degree of popularity and greatly augmented the number of the workers, and they eventually were recognised to be excessive and demoralising, and were withdrawn or curtailed.

62. The obvious drawbacks which in spite of the best management attend the task and subsistence wage system of the Famme Codes have led to several experi-(e) Other tests. ments of great interest and value. The problem was how to safely reduce the excessive numbers of inefficient workers, and to infuse more energy and industry into the able-bodied minority. It was at once recognised, as indeed the Famine Commissioners had pointed out, that ordinary piecework, under which only "remunerative" labour is employed and is paid by results, would not be suitable. If the rate of payment were adjusted to meet the powers of the least capable persons seeking employment, the work would be made enormously costly; and if it were not so adjusted, relief would be virtually denied to large classes in urgent need of it. But it was thought that if work were given out to family groups or other small parties of workers, if a fair wage were allowed according as a higher or a lower task was performed by the group, and if its earnings were restricted to a maximum sum a day, the chief objections to ordinary piece-work would be obviated, and the relief requirements of tracts where distress was not severe would be sufficiently and economically met. It is unnecessary here to describe the experiments made on these lines in the North-Western Provinces, Bengal and the Central Provinces. But it may be said that in districts not acutely distressed they have proved successful. The number of mefficient workers has thereby been largely reduced, and relief attended with much economy. Where each individuel worker receives a subsistence wage, however little be works, and when every

"dependant" incapable of labour is also supported, it is the interest of the head of every household to bring all members of it upon the relief-works. When, however, in place of these conditions work is paid for according to results, and the workers are expected to maintain their children and their aged relatives, the attendance at the works is at once reduced. In the projected revision of the Famine Codes this system of petty piece-work or modified task-work will probably find a place, as an expedient preferable to the strict "task and minimum wage" system of the present codes in cases where distress is not widespread and severe

63. With upwards of two millions of persons employed on relief works in British India, at the cost of about Rs. 2,00,000 (Rx.* 20,000) a day, the Government of India in February thought it expedient that the principles regulating expenditure on public works in time of famine should be defined and announced to Local Governments. These instructions, which are dated the 13th February 1897, may here be noticed, as they in effect conveyed approval to the experimental departures from the relief system of the Famine Codes which have just been described. The instructions open by setting out the general rule that in tracts where no distress exists, expenditure upon public works, even within the limits of budget provision, should be contracted with a view to setting funds and establishments at liberty for employment where they are more needed. To this rule exceptions are recognized where work cannot be contracted without risk of creating distress by reducing local employment of labour, or of returning to districts where distress exists or is threatening the labourers employed on them. In districts where distress exists and additional employment has to be provided, all expenditure on such object must be subject to certain relief conditions. primary condition is that the remuneration for work done should be so fixed as not to attract labour for which employment exists elsewhere. The method as not to attract labour for which employment exists eisewhere. The method of enforcing this condition will, however, vary with the degree of distress. Where distress is acute, and employment has to be provided not only for ablebodied labourers but also for a large proportion of inefficient labour, the rigorous enforcement of task-work is necessary, nobody being allowed to do more than the fixed task or to earn more than the minimum wage. In this way alone can the curply of restrict work on which below on the exployed be eccurptived. can the supply of useful work on which labour can be employed be economised, and expenditure be limited. Where distress is less acute, and the proportion of inefficient labour seeking employment is not great, payment by results, it was said, is more economical than task-work; for so long as an able-bodied labourer can earn enough to enable those of his family who ordinarily do not work to remain at home, he will support himself and them more cheaply than the Government can. When payment by results is adopted, the rates offered should be so regulated as not to attract labour from existing employments else where. If the demand by mefficient labour for employment should increase when the payment-by-result system is in force, it should be first met by opening test-works under ordinary task conditions; and if it should continuously increase, the existence of acute distress might be assumed, and thereupon "payment by results must be discontinued and task-work substituted for it" These instructions have, it is believed, been found to be in general conformity with the additional experience acquired since they were issued, and they summarise by anticipation the results of the experiments in the employment of relief-labour which have been under trial in different provinces, and which will be fully reported on in the near future by the local Governments.

The Government and the Grain Trade
The rule of non-intervention.

That supplies might locally fail in special localities, have been noticed. It was inevitable that the position of the Government with regard to the provision of food for the population generally, for the people collected on relief works, and for particular tracts where from one cause or another failure of local stocks was anticipated, should come under consideration and discussion. It has been stated that in November the Government of Bengal, in commenting on the report of the Commissions.

[•] Rx. stands for tens of rupees, or "rupee-pounds."

sioner of the Patna Division and in showing that it implied a deficiency of 550,000 tons in the available food-supply of Behar for the year, touched on the question whether private trade could be relied on to supply the deficiency. "The "high prices in Eastern Bengal and the indications of distress already existing in districts that were always considered free from scarcity show," wrote the Bengal Government, "that little reliance can be placed on supplies from within the province". The importation of wheat from abroad, and of rice from Burma, seemed possible, and the Government of Bengal was disposed to hope, though not without some misgivings, that the food wants of the province would be met by private trade. This belief was very decidedly held by the Government of India But the idea of the Government entering the market as a purchaser appears to have gained currency with the public, as during the month several overtures were received from mercantile houses to purchase gram on behalf of the Government in Burma and America. To all these the reply was given that the Government had no intention of making purchases on its own account or of in any way interfering with the general course of trade. In December the Government of Bengal became aware that many gentlemen of position and local knowledge in Behar considered that stocks, especially in the less accessible places, were likely to be depleted before private trade could supply the local deficit, and applied to the Government of India to authorise advances of money being made to traders and other persons in Behar for the purchase and import of foreign food-grains. The Government of Bengal m making the proposal was disposed to think that it would not constitute an interference with private trade. The Government of India thought otherwise. They regarded the scheme as one for the importation of food-grains from abroad into India with funds to be supplied by Government. As such they felt obliged to negative it. This they did in a letter of the 4th January 1897, which, as a declaration of policy and a contradiction of the rumours afloat as to the action of the Government, was published in the Gazette of India for general information. In this letter the Government of India recognised the grave possibility that in certain circumstances the food-supply of the country taken as a whole might prove insufficient, and that it might require to be supplemented by importations from abroad. But they held that even in that event the best policy was that of rigid abstention from interference with the machinery of mercantile trade They believed that, although the State might do more than one trader, it would certainly do less than the trade. "The Governor-General in Council," they said, "believes that the intervention of Government "as a purchaser or importer would do infinitely more harm than good, as it would "cripple and discourage the agency which is best able to gauge the need, which is "impelled by self-interest to anticipate it, and which alone is best able to supply "it effectively" The functions of Government in the matter should, it was explained, be confined to assisting the trade with information, guaranteeing by means of its relief system that the demand of the public for food shall be an effective demand, and giving every possible facility for the free movement and distribution of grain.

The exceptions to the general policy of non-interference suggested by the Famine Commissioners were then discussed and shown to be confined to two cases, the case of assisting trade to provide supplies on a relief work, and of assisting or supplementing trade in remote or maccessible tracts. Interference in Behar, they considered, should, if permitted at all, be strictly confined to these two classes of cases and to particular and well defined localities. In reply to this letter the Government of Bengal explained that it had always intended to strictly confine its action to tracts where special local circumstances made intervention necessary, and that on the general question of principle its views were identical with those of the Imperial Government. So far as the Government of Bengal was concerned the discussion here closed, a general permission being accorded to the local Government to make such arrangements in these special tracts as were considered necessary, without further reference to the Government of India. But the general declaration of policy unquestionably had a re-assuring effect on trade. The level of prices in India and abroad was against an active import of American grain, and losses are said to have been made over cargoes of wheat. But Burma had a large surplus of rice, and rice imports grew to large dimensions. In Behar the up-country dealers gained confidence and steadily extended then operations, and aided by the excellent railway system which links the province with the rest of India they succeeded in making good the deficiencies of local stocks without assistance from the Government. The net imports of food-grains into Behar from November 1896 to the end of August 1897 are returned at 120,000 tons, a figure substantially below the half million tons which at one time would, it was thought, be needed. As regards Behar, therefore, the success of the policy of non-intervention was unquestionable.

65. In Bengal, the only case in which intervention was considered necessary was that of the Palamau District in the Intervention in exceptional cases. Division of Chota Nagpur. The distance of this district from the railway and large grain marts, the mertness of trade, and the exhaustion of local stocks created a situation which was regarded as serious by the local authorities. Accordingly the Government of Bengal with the concurrence of the Government of India gave a small bounty on all grain imported into the district before the 1st April. The period was subsequently extended to the end of June. As this measure was found insufficient, the Government in July imported 500 tons of Burma rice on its own account. In the Central Provinces the isolated condition of the Mandla District situated on the Satpura plateau gave cause for anxiety. Local stocks were reported to be exhausted and the grain trade was confined to small dealers. The district is remote from the railway, the communications even in the open season are rough and difficult, and are liable to be closed for days together by heavy rain. It was therefore deemed prudent before the setting in of the rainy season to give contracts for the supply of some of the relief camps to outside grain merchants, to undertake direct importation for other camps, and to give advances to local traders for relief centres and bazaars. These measures proved sufficient. Similar anxiety was also felt about the contiguous Baihar sub-division of the Balaghat district, but eventually it was found that private trade was sufficiently active and resourceful and that intervention was not necessary. In this and other localities, however, in the Central Provinces special measures for the importation of seedgrain were taken, as it was found that local stocks had run out, and that particular kinds of seed-grain were required and could only be procured from a distance. In these cases the Government officers in importing the grain made arrangements to place it in store with responsible landowners against the advent of the rains, when it was advanced to cultivators for sowing, either on behalf of the State or of the Indian Charitable Relief Fund.

66. These instances indicate the very limited extent to which it was found necessary to interfere with or to supplement the ordinary operations of the graintrade. At the same time material aid was given to traders by the railways, which with a view of encouraging import of grain from the ports reduced their upward rates to a level with their seaward rates. In Bombay, Madras, and the North-Western Provinces and Oudh the trade seems from the outset to have proved fully equal to all calls made upon it. Even the provisioning of the large relief camps, where bodies of 5,000 or 6,000 persons were collected, gave rise to no difficulty. There was frequently very keen competition for permission to act as purveyors of the camps, and the activity of the trade induced many persons with petty capital to turn to grain-dealing and temporarily to join the ranks of the professionals. Wherever there was a railway, grain freely moved along its length at the least movement of prices. The district of Allahabad from January to May imported by rall an average of 1,800 tons of grain a week, representing the food-supply of half a million persons. The Banda district in the same period imported 600 tons a week. The weekly import into the Poona district averaged 900 tons, and into the Hissar district 1,000 tons. Grain came from long distances and was dropped down at little way-side stations which have never before seen such traffic. From January to the end of April the despatches of grain, chiefly Burma rice, from Calcutta to stations in the North-Western Provinces and Oudh amounted to 77,000 tons. Burma rice found its way first to relief camps and then into the village bazaars throughout the country. All this was accomplished by the ordinary machinery of commerce, encouraged by low railway rates, an effective demand for food, and the complete abstention of the State from interference of any kind.

67. Among native States the first instinct was to resort to the traditional expedient of prohibiting export of grain classes, the poorer members of which are considerably affected by a rise in the price of food. In December information reached the Government of India that export to the Bombay Presidency from Indore and from Hyderabad had been prohibited by the respective States, and that similar action was about to be taken by the States of Central India and Rajputana Political Officers were instructed to explain very fully to the States to which they were attached the reasons why the prohibition or the taxation of exports was held by economists to be mischievous and useless, and to advise reconsideration of the matter. This advice was generally adopted and the restrictions removed Few, if any, cases occurred in which the local grain supply actually failed in the territories of a Native State during the late famine In the Bastar State, a rugged and remote tract which occupies the south-east angle of the Central Provinces, apprehensions were felt in January lest the large exports of grain which were taking place from it to the Central Provinces would reduce the stocks to danger point, and the Administrator was authorised, as an alternative to his original wish to prohibit export, to buy up and store a reserve of grain for the people against the rains. But further enquiry showed that there was no ground for apprehension. The harvests had not failed The cultivators had large stocks in hand, for in ordinary years the distance of Bastar from good markets checks export. They were selling their surplus at much profit to themselves, and the alarm was purely an official one. This is a good illustration of the class of cases which frequently occur when prices rise in India, and exemplifies the necessity for caution in dealing with popular apprehensions that the food supply of a district is running short because the exports happen to be large

VII.—The third period. From the close of the spring harvest to the establishment of the monsoon rains.

Character of the period opened with the completion of the rabi harvest in Upper Character of the period India and with the setting in in Southern India, Burma and Bengal of the showers which in those parts precede the regular monsoon rains, and which there enable early rain crops to be sown and lands to be prepared for later sowings. The middle portion of the period was one of great anxiety, as the monsoon, after an early and satisfactory start, died away. The crops which by the third week in June had been sown over large areas were seriously imperilled, and great loss of seed was anticipated. But before the period had closed the monsoon recovered strength, and sufficient rain fell in most provinces to save the crops already sown and to permit sowings to be resumed. The exceptions to this were the Deccan country in Madras and Bombay, the northern districts of Madras, the Punjab and Burma. These areas did not receive sufficient rain until, in the case of the Punjab, the end of August, and in the case of the Deccan, the northern districts of Madras, and Burma, until the middle of September.

Numbers rise in May and June.

Numbers rise in May and June.

During May the rise was especially marked in the North-Western Provinces, Madras, the Central Provinces and Bengal. At the end of May the total number of persons receiving relief in British India and Native States exceeded four millions. This figure was maintained during the second fortnight of June. A sharp decline then took place—chiefly in the North-Western Provinces and Oudh where the rains had opened favourably—and this was maintained till the close of June At the end of June the total numbers on relief were 3½ millions. The numbers in Madras showed a large increase on the May figures. In the North-Western Provinces and Oudh they had fallen by nearly one-half, and in the Central Provinces by one-third in Bombay and Bengal the decrease was less. In the first fortnight of July, owing to the break in the rains, the numbers on relief again rose to 3½ millions, falling however by the end of the month to little over three millions. The increase in the numbers on relief in Madras continued, and on the 31st July that province headed the list with a relief population of 806,000

Bombay also on that date showed an increase on the May and June figures, though in a very much less degree. The numbers in the North-Western Provinces and Bengal had continued to decline. The Central Provinces showed an increase on the June figures, but a decrease on those for May. The table below gives the numbers on rehef in each Province and Native State on the last day of the first and second fortinght of each month of the period:—

					NUMBER O	PERSONS I	N RECEIPT	OF RELIEF . IGHT.	AT THE END		
P	rovinces			APRIL MAY.			Jσ	NIE.	JULY		
				Second- half	First- half	Second- half	First- half.	Second- half.	First- half	Second- half	
Madras	***	***	•	231,650	285,461	896,418	464,702	620,105	792,891	806,977	
Bombay	•••			403,818	877,810	352,034	829,634	317,243	884,912	408,080	
Bengal		•••	•••	678,972	782,088	833,447	824,080	719,116	648,778	561,889	
North-Western	Provinc	es and O	udh	1,248,496	1,856,162	1,471,123	1,426,268	798,552	766,767	505,476	
Punjab	•••		***	87,971	89,479	96,868	104,850	97,640	60,502	85,910	
Central Provin	1008		••	581,963	651,576	697,580	659,989	479,972	574,840	602,868	
Burma		•		16,728	14,678	18,277	18,944	22,959	25,600	88,797	
Berar .	••		٠	23,160	26,902	30 472	25,051	82,420	88,788	28,929	
	Total			3,272,758	3,584,047	3,895,654	3,848,516	8,088,007	3,287,578	2,984,821	
Nat	we State	ur									
Hyderabad		••		26,843	27,472	40,537	28,382	14,068	12,927	17,489	
Central India			,	149,596	176,873	128,454	205,246	128,820	98,694	68,297	
Rajputana			,	21,690	22,516	22,520	24,724	24,598	16,112	10,690	
	Total	•••	•••	198,129	226,860	191,511	258,852	162,476	122,733	91,476	
	GRANI	TOTAL	,	8,470,887	3,810,907	4,087 165	4,106,868	3,250,483	8,410,311	8,076,297	

70. The rise and fall in each province were chiefly due to the varying character of the rains and the extent to which they favoured agricultural operations and enabled the population on relief to resume

enabled the population on relief to resume their ordinary occupations. Except in Southern India, Burma and Bengal, where showers in advance of the monsoon give a start to cultivation, the month of May is the idlest period of the Indian agricultural year. Work in the fields is suspended, the harvests have been thrashed and garnered, the sun-burnt earth, refuses the plough, and time hangs heavy on the peasant's hands. In this dead season the lack of other employment would in any year bring labourers in almost any district on to a relief work, if one were opened, unless it were managed on very strict conditions. In a year of severe distress and high prices the inclination of the people to flock to relief works in the weeks before the rain has to be reckoned with by the famine administrator, and his plans framed accordingly. His establishments and his programme of works have to be enlarged, and he has to see on the one hand that the widening circle of distress and the deepening of privation are fully met by his measures for relief, and on the other that the offer of relief is not made unduly attractive. He has so to hold the people in hand that the able-bodied among them may be returned in fair health to their fields as soon as the longed for rain descends, and that the weakly and resourceless minority may still be helped along by state relief until they too, as the pressure of want and high prices relaxes, may fall back into their accustomed place in the village economy. These were the guiding principles on which relief measures were shaped in the several provinces in the period now described. In May and the first fortnight of June the crowds on the relief works increased, and the lists of those gratuitously relieved in their homes lengthened. Tasks generally were made more severe, and wages reduced to better test the needs of the workers, while in less distressed districts of Upper India, the modified forms of piece-work which have above been described were

experimentally introduced. To famine-relief officers and their establishments it was a time of extreme tension, of labour under the most trying conditions, and of endless anxieties. In the relief camps water became scarce, and sickness broke out. In the Allahabad district a severe epidemic of cholera led to the dispersal of the large relief camps, and the drafting of the workers in small parties to "village" works, which had been provided beforehand by the local Government for such a contingency. In the Central Provinces cholera was equally destructive in many districts, and the Chief Commissioner had to deplore the loss of some of his best officers. Along with this expansion of relief to meet the immediate necessities of the people, measures were taken to provide the more needy with seed, or with money to buy seed and cattle, against the approaching rainy season Loans were made for this purpose without interest or at low rates of interest by the State, and over a crore of rupees (Rx. 1,000,000) was placed at the disposal of district committees by the Indian Charitable Famine Relief Fund, to be distributed for this and other objects.

71. With the setting in of the rains in the latter half of June the scheme of Character of relief in second half of relief in Upper and Central India was materially altered. The landless agricultural labourers who formed the bulk of the reliefperiod workers could now find employment in the fields, and it became doubly important to curtail whatever attractions the relief works possessed and to offer no inducements to able-bodied persons to linger on them who could find work elsewhere. This was effectively done in the North-Western Provinces and Oudh by reducing the number of relief works and by substituting some form of piece-work for the code system of task-work, with its attractions of a subsistence wage and allowances for Sundays and dependants. In the third week in June the number of persons on relief works in those Provinces was thus reduced from 953,000 to 433,000. In Bengal the numbers on relief works similarly fell from 410,000 to 298,000. In the Central Provinces from 128,000 to 439,000. The provinces from 128,000 to 439,000. 538,000 to 428,000. The process of reduction would have been still more rapid but for the continued dearness of food and the exceptional slackness of the labour 538,000 to 428,000. market. Prices refused to fall, and the customary wage of the agricultural labourer was insufficient to support both himself and those dependant on him Nor was he able to establish a higher wage, for under pressure of poverty the small holder of land did more farm work himself with the help of his family and employed less hired labour than usual. Regard had to be paid to these facts, especially in the most afflicted tracts, when it became a question of closing or continuing the relief works. The condition of the young, the infirm and the aged also required increased attention. In the struggle for food these were the classes that suffered most, and to effectively relieve them became the chief care of the administration. The expedient of substituting cooked food for the money dole allowed by the codes to dependents of relief workers has already been mentioned. In the period now described the relief kitchen, as an adjunct to the relief work, came to be still more generally adopted, and may, without exaggeration, be said to have saved the lives of thousands of children Under the original form of the Provinces and elsewhere the workers were expected to provide for their families from their earnings. But as the sad condition of the children and the neglect of the parents became more evident, it was found advisable to add the children's kitchen to the piece-work regulations. In Bengal and in the Central Provinces the relief kitchen in the last stage of the famine was also largely used apart from relief works as a form of gratuitous relief for necessitous persons in towns and But this is anticipating the course of events

72. The expansion of gratuitous relief in the homes of the people in this period in Upper India was another natural consequence of the altered conditions of the famine. In the North-Western Provinces and Oudh the number of persons receiving such relief was 352,000 in the beginning of May and 470,000 at the end of July. In Bengal the numbers rose from 292,000 in May to 450,000 in the third week of July. In the Central Provinces the numbers rose during the period from 100,000 to 201,000. It has already been said that the extensive resort in the North-Western Provinces and in Bengal to this form of relief formed the subject of some

correspondence between the Government of India and the respective local Governments. The Government of the North Western Provinces thus described its policy in the matter:—

policy in the matter:—

"It has been a constant instruction to the officers of this Government to bring no one on the village lists who either could support himself or who had relations accustomed to support him and still able to do so. The natural tendency has been for people to transfer their burdens to the State, and some firmness has been required to resist it. Mere physical appearance, which might be due to disease, was not held a sufficient test by itself, though it might deceive a superficial observer. Even in the tracts of greatest crop failure there were villages or holdings which yielded some outturn and benefited by the high prices of produce. In Bánda, a very acutely distressed district, the number on this form of relief on 3rd April was almost 4 per cent. of the population. On the same date Azangarh, a poor district with a dense rural population (804 6 to the square mile), but very much less acutely distressed than Bánda, had only 0.16 of its population so relieved. Hardoi, which was distressed tast year as well as this, had 24 per cent. The adjacent district of Sitapur, which was much better off, had only 0.4. In Allahabad, which contained some very impoverished tracts and which had also suffered last year, the district incidence was 2.2 Jaunpur, in spite of its dense rural population (816 to the square mile), required only 0.7 per cent, because distress was limited and less intense than in the worst districts. Gorakhpur did not suffer so severely as the Bundelkhand districts. In it the village relief was extended to only 0.5 of the population, whereas Jalaun showed 4.3 per cent. Later on in the season, as home resources became more exhausted and the circle of distress in each village widened, the home relief expanded, but its relation to the intensity of distress in each locality has always been maintained. The Lieutenant-Governor has always recognised the necessity for extreme care in the distribution of this form of relief, which carries with it no self-acting test, and is therefore specially h

73 The Government of Bengal succinctly put the case for Behar in the following words:—

"In England and Wales 2.85 per cent. of the entire population are in poor-houses or in receipt of out-door relief. In ordinary times it is probable that 3 per cent of the population of Behar are entirely dependent on private charity. It should not then be a matter for surprise if in Behar, with the most congested and the poorest population in India or perhaps in the world, 4 to 5 per cent. of the population are unable to work and have nobody to maintain them in a famine year of unprecedently high prices and of failure of crops, admitted by all competent observers to be as great as that of 1873-74."

As regards other districts outside Behar, especially the Naddea district in the neighbourhood of Calcutta in which the numbers gratuitously relieved for a few weeks exceeded 10 per cent. of the population, the Government of Bengal admitted that sufficient discretion had not been exercised by the local authorities. The expedient of offering cooked food at kitchens instead of doles of money or grain was adopted with great effect. In a few weeks the number of persons receiving gratuitous relief in Naddea fell from 60,000 to 6,000.

74. In the Central Provinces the extension of gratuitous relief in the homes of the people and by means of poor-houses during May, June and July was necessitated by manifest signs of deterioration in the physical condition of the labouring classes, especially in that of the children, by the great difficulty of keeping open a sufficient number of relief works during the heavy rains experienced in this part of India and by the sickness and mortality among the workers which resulted from exposure to the inclemency of the weather. In instructions issued on the 2nd July, the Chief Commissioner thus described the circumstances which had to be met:—

"Sutable monsoon work cannot be provided in unlimited quantities, and while our public works programmes are thus necessarily restricted, a large body of labour, with its accompanying crowd of dependants, has been thrown out of employment by the closing of all tank work and other earth-work carried on under civil officers or with the aid of famine loans. When to this is added the effect of rising prices on such activity as local private charity has hitherto displayed, it is obvious that we must expect a considerable deepening of distress, and we must depend very largely for its removal on house-to-house relief in villages and towns. In most of the severely distressed districts, the numbers on this form of relief have for some weeks past been mountaing rapidly, and they will no doubt continue to increase. In others, where this form of relief has hitherto not been thought necessary, or where it has not been extended over the whole district, the district officer should not hesitate to apply it wherever there is any sign of deterioration in the physical condition of the people."

75. The establishment of relief kitchens at police stations and other convenient centres for the feeding mainly of children of parents unable to support them was also laid down in these instructions. During July the rapid increase in the

death rate of particular localities showed how seriously privation and unwholesome food had impaired the vitality of the

poorer classes, and compelled the local Administration to multiply posts where persons in need of food might obtain relief. This was first taken in hand with vigour in the children as being in any cases "reduced to mere skin and bone." Labouring men and women, he fund, could earn no more than sufficed for their own food "They have nothing or their children, who are practically left to graze in the fields. It is common admitted by the people that the emaciated children one "sees in the kitchens have been subsisting entirely on wild indigo and similar "weeds for the past mc h" In the Seoni district in July last 59 kitchens were opened, in the Mandla listrict 20, in the Saugor district 25. A similar need of this kind of relief w recognised in the case of the huge district of Bilaspur, where distress was acuta broughout 8,500 square miles and among a population The obs. les to communications were great in this tract of riceof 1,100,000. swamps and forest, and in spite of enlarged establishments it was almost impossible to bring relief to every village and every home where it was required. Convenient centres where food could be obtained seemed in the circumstances the best expedient. To this was added a system of road patrols whose duty it was to convey to these centres or to the poor-houses any starving wanderers found on the roads. These instances will serve to explain the increasing resort to gratuitous relief in the Central Provinces seen in the relief statistics for the period under mention, and even more apparent in the figures for the next period, notwithstanding the improved agricultural outlook and the certainty of a good autumn harvest

The situation in Southern India during May, June and July differed from Position in Southern India.

The difference of the Central and Upper India Here the rains were light and ill-distributed, and in the affected districts of the Deccan agriculture, except in favoured tracts, was more or less at a standstill. The difficulty of keeping relief-works open experienced in the Central Provinces did not exist here, and the demand for work on the part of the people was unabated. In Madras at the end of April there were 201,000 persons on relief-works and 30,000 on gratuitous relief. At the end of July the relief-workers had risen to 557,000 and the numbers otherwise relieved to 250,000. Of the latter number 40,000 were weavers relieved at their craft. The great rise in the relief-work population has above been explained to be due in a great measure to injudicious relaxation of the labour-tests. The reasons for the great expansion of gratuitous relief are somewhat obscure. In the Ganjam district, where 96,000 persons at the end of July were thus relieved, the Uriya population is said to have an insuperable objection to appearing on relief-works. In the Deccan districts the system adopted in Madras of encouraging the relief-workers not to reside on the relief-works greatly reduced the "dependants" of workers to whom relief is given in connection with the works. And it may be conjectured that persons, who in other provinces would as "dependants" have received relief on the works, were in Madras relieved gratuitously in their homes. But a comparison of the Madras relief figures with those of the adjoining Bombay Deccan districts leads to the opinion that in Madras gratuitous relief was more freely given than in Bombay, and that the whole relief system was framed on very liberal lines. In Bombay, at the end of April, there were 373,000 persons on relief-works and 30,000 in receipt of gratuitous relief. At the end of July the relief-work population in that Presidency numbered 352,000 and the persons gratuitously relieved 56

77. In paragraph 49 of the narrative the distribution of the persons relieved

Analysis of relief at end of July.

Analysis of relief at end of July.

A similar analysis of the relief population at the end of July is required

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to complete the notice of this period, and is given below:-

	EMPLO1 E	ON RELIE	F-WORES.			GRATUI	POUNLY RE	LIEVED	
Provinces.	Workers.	Depend- ants	Total,	Employ- ed on test- works.	Total employed on works.	In poor- houses or kitchens.	In their homes.	Total	GRAND TOTAL,
Madras .	536,647	19,894	586,541	590	557,071	36,486	213,420	249,906	806,977
Bombay .	285,585	66,792	852 377	٠.	352,377	2,115	54,188	56,603	408,980
Bengal .	164,574	6,974	171,548	1 855	178,408	36,848	356,638	388,486	581,880
North-Western Pro- vinces and Oudh	88,268	17,406	100,669	1,199	101,868	48,219	360,389	408,608	505,476
Punjab .	21,120	2,792	28,912		23,912	1,128	10,775	11,998	95,910
Central Provinces	348,944	58,150	402,094		402,094	32,942	167,827	200,769	602,863
Burma	26,586		26,586		26,586		7,211	7,211	38,797
Berar	17,012		17,012		17,012	8,465	8,462	11,917	28,929
Total .	1,483,731	167,008	1,650,739	8,584	1,654,328	156,488	1,174,010	1,330,498	2,984,821
Native States			}				}	}	
Hyderabad	15,587	j.	15,587		15,587		1,902	1,402	17,489
Central India	45,125	Ì	45,125]	45,125		18,172	18,172	68,297
Rajputana	3,369		3,369		3,369		7,821	7,921	10,690
Total	64,081		64 081		64,081		27,395	27,895	91,476
GRAND TOTAL	1,547 812	167,008	1,714,820	8 584	1,718,404	156,488	1,201,405	1,857,898	3,076,297
	1	ı	1	1	1	ı	1	i	ı

VIII.—The fourth period.—The close of the famine.

78. This last period is still incomplete, as in no Province at the present moment have relief operations actually been brought to a close; though in most parts of India their closure is at most a matter of a very few weeks. It is permissible therefore in this part of the narrative to be brief. The contraction of relief operations will be seen from the table below:—

	Nome	ers on reli	EF AT END OF	EACH FORTH	TIGHT
Province	Second half of July	First half of August.	Second half of August	First half of September	Second half of September
Madras	806,977	694,745	593,160	354,444	171,84.3
Bombay	408,980	403,442	435,776	464,586	852,610
Bengal	561,889	448,807	335,776	92,287	18,018
North-Western Provinces and Oudh	505,476	466,821	397,707	241,630	120,606
Punjab	35,910	26,499	17,547	4,929	833
Central Provinces .	602,863	577,758	563,833	618,308	654,852
Burma	33,797	26,037	21,175	18,027	17,072
Berar	28,927	14,947	10,955	6,779	8,609
Total	2,984,821	2,659,056	2,375,979	1,800,990	1,344,443
Native States Hyderabad	17,489	18,435	z1,275	22,863	24,446
Central India	63,297	48,349	49,103	26,656	25,076
Rajputana	10,690	8,435	6,042	5,741	3,657
Total	91,476	75,272	76,420	55,260	53,179
GRAND TOTAL	3,076,297	2,734,328	2,452,379	1,856,250	1.397,622

79 In Upper India, the maturing of the early rain crops in September, and the consequent cheapening of rice, Indian corn and other autumn food-grains on Relief ceases in most provinces. which the poorer classes largely depend, the better demand for field labour, and the improvement in the general outlook, have enabled the Governments of Bengal and the North-Western Provinces and Oudh to rapidly close the relief-works, and to restrict relief to the very young, the aged and the infirm, who have to rely on the support of others. In the first week of September, the population on relief-works in Bengal had fallen to 32,000 and on gratuitous relief to 192,000. On the same date in the North-Western Provinces and Oudh the relief-works population had fallen to 16,000, and the numbers in receipt of gratuitous relief to 256,000. Since then further progress has been made in reducing the gratuitous lists. In both provinces, the procedure in this respect has been identical Villages in which early kharif crops predominate have first been operated on; in such villages gratuities equivalent to relief for a week or fourteen days have been given to the poor on the gratuitous list, and they have been informed that they must now manage for themselves or rely on others for support, as in pre-famine times.

This is inevitable, if a permanent poor law in India is to be avoided Villages in which the crops are later in maturing are then to be similarly dealt with, and it is anticipated that by the end of October in both provinces relief will cease. In the Punjab the numbers on relief have for some weeks past been very small, and no great hardship would result from a complete cessation of relief Burma relief may be required until the end of the year, but as it is chiefly given in the form of work on remunerative canal irrigation projects, this is of no great In Madras and Bombay the copious rainfall of September has changed the situation from one of grave anxiety to one of hope. Madras is expected to cease in the present month. In Bombay, distress, to judge by the high death-rates of the Deccan Districts, and the persistence of high prices, appears to be somewhat more acute than in Madras, especially among the hill tribes, and relief may here have to continue longer

80. In the Central Provinces the physical condition of the people is still deplorably bad, the general death-rate of the Position in the Central Provinces province in July and August extremely high, and relief on a large scale will in all probability be necessary until the end of the The numbers on relief are now in excess of what they were at the end of July, and increasing resort is found necessary to the two expedients of relief in the homes of the people and relief-kitchens, described in the last section of this The numbers on relief works at the close of September have fallen to 263,985, while the numbers gratuitously relieved in poor-houses, kitchens and in their homes has risen to 391,867. In Bilaspur 9 per cent of the population is thus gratuitously relieved, in Jubbulpur 7 per cent., in Damoh 9 per cent, in Mandla 7 per cent., and in several other districts between 4 and 6 per cent. The extension of village relief and the multiplication of kitchens have in fact been the principal feature of the relief operations in the last two months, and the latest report of the Chief Commissioner is to the effect that "no appreciable" reduction in the numbers on gratuitous relief can be expected for some time "to come, even in the districts which show the highest totals, while there are others, such as Saugor, Betul, Mandla and Chindwara, in which further additions must be looked for." Of children's kitchens he writes that "They are proving most useful and effective. It has been established by experience that in most "cases parents cannot be trusted to feed their children out of the doles granted "them for the purpose, and that in severely distressed tracts the village relief "system is therefore by itself inadequate, and requires to be supplemented by special measures to secure that the children are properly fed." The deterioration in the general health of the population of these provinces is particularly marked, since the commencement of the rainy season, and occasions grave anxiety. The death-rate for the province in July was 6 47 per mille, and in August 8:35 per mille, equivalent to annual ratios of 77.6 and 100.2 per mille respectively. The following passages from the reports of the Chief Commissioner for the two months in question deal with this subject, and seem to summarise all that can be said upon it. Of the mortality of July he wrote :-

"The break in the rains with which the month commenced, and which lasted throughout a third of it, was not only in itself adverse to health, restoring conditions of drought and

heat after a heavy and general downpour, but also deprived the labouring classes of that employment to seek which many thousands had left the relief works. The savings they had made were soon exhausted, while prices, which might have been expected to fall with a continuance of favourable rain, remained extremely high, or even (in the general apprehension of renewed failure of crops) rose still higher than at the end of the hot weather. The climatic conditions of the rainy season are at all times adverse to health, and they were particularly so to persons enfeebled by long continued privation, and exposed without sufficient clothing or shelter to great changes of temperature and heavy falls of rain. The mortality of the month is chiefly ascribed to bowel diseases and fevers, the normal complaints of the season. The former were probably aggravated by the use of unwholesome food, as pointed out in the monthly report, while the latter were particularly prevalent in consequence of the return of heat during the break in the rains, and the sudden lowering of temperature when the monsoon rainfall recommenced."

Reporting still greater mortality in August, he wrote: -

"This general increase, characterising alike those districts where distress is most acute and those where it is (comparatively) less severe, points to a common cause which is not wholly the pressure of scarcity, but is climatic in its origin. The copions rainfall of the month, with chills due to the fall of temperature caused thereby, has undoubtedly produced a large excess of deaths from fevers, dysentery and diarrhoes. The use of the vegetables common in the rainy season—various forms of gourds and cucumbers—has probably added to the virulence of bowel complaints. But, quite spart from the causes affecting the general population, there can be no doubt that the deplorable mortality of the month (in all years one of the most unhealthy of the twelve) is mainly to be ascribed to the effect of unfavourable conditions on constitutions weakened by continued privation. Although all through the month every effort was made to extend village and kitchen relief to those in need, it was not possible to counteract the effects of a continued scanty allowance of food in the case of the many thousands of persons who had not taken advantage of the relief offered them by Government on works, but had preferred to remain at home looking after their crops or accepting private employment, at a low and insufficient wage These are persons whom no form of Government relief, except such as would completely take the place of private employment, could reach."

81. Elsewhere in this narrative mention has been made of the fact that the famine in the Central Provinces represents the cumulative weight of three bad years on the agricultural population. That this has had much to do with the enfeebled condition of the people there can be little doubt. As regards the adequacy of the relief measures which have been taken, it is perhaps sufficient here to say that they have been on a very extensive scale, that, although occasional mistakes may have been made, as is mevitable where the field of operations is so large, they have, as a whole, at each point of time been considered by the local administration to be sufficient for the requirements of the situation, and that by August 1897 the direct expenditure on relief incurred in the Central Provinces by the State from November 1896 amounted to not less than Rs. 1,20,00,000 (Rx. 1,200,000) besides large suspensions of land-revenue and loans to landowners and cultivators. It may also be remarked that in these provinces famine has been very difficult not only to combat, but in its earlier stages to correctly diagnose. Distress has declared itself or deepened in particular tracts with great rapidity and with no premonitory symptoms. From the Narbudda Valley districts in the west the centre of intense distress suddenly shifted in May to Bilaspur in the east, and scarcely were relief arrangements enlarged to meet the danger in Bilaspur, when in July the Mandla and Betul districts in the central highlands called for increased attention. Next the Saugor and Damoh districts in the Vindhyan Hills showed in August by a rising death-rate that there pressure was increasing. This showed in August by a rising death-face that the present was increasing. This peculiarity has greatly increased the difficulty of the situation and hampered the local Administration. It may however be permissible to hope that the worst is over, as good rain crops are on the ground, and the cold weather sowings are being successfully commenced.

82. In Central India, distress is reported to have greatly abated in the Baghelkhand and Bundelkhand Agencies, central India.

where crops promise well and prices are falling. It has almost ceased in the Gwalior State, and in those of the Rajputana States in which relief measures were necessary. Throughout Rajputana, as throughout Central India, the agricultural outlook could not be better. In Hyderahad, the struction till could be recommended to the struction of the struction till could be recommended. Hyderabad, the situation till quite recently was very much the same as in the Madras Deccan country, and matters did not improve until the heavy rainfall of September.

83 To complete the review of this closing stage of the famine, the disposition of the persons in receipt of relief at the end Analysis of relief at end of September of September 1s given below:-

				or were		- 6			
	Емріл	VED ON R WORKS.	ELIEP			Gi	RATUITOUSI RELIEVED	L¥	
Provinces.	Workers.	Depend- ants.	Total.	Employed on test works.	Total employed on works.	In poor- houses or kutchens.	In their homes.	Total.	GRAND TOTAL
Madras	92,942	8,477	101,419	67	101,486	11 162	59,195	70,857	171,843
Bombay	206,157	50,188	256,345	285	256,680	3,827	92,158	95,980	352,610
Bengal .	9,410	_	9,410	_	9,410	3,554	5,254	8,668	18,018
North-Western Prov- inces and Oudh	_		-	-	_	5 017	115,589	, 120, 6 06	120,606
Punjab	_ '	_	_	l –	-	623	210	833	888
Central Provinces	229 972	32.920	262,892	93	262,985	44,155	347,712	391,867	654,852
Burma	18,320	_	13,820	-	13,320	_	3,752	8,752	17,072
Berar	2,135	_	2,135		2,135	2,484	8,990	6,474	8,609
Total	553,986	91,585	645,521	445	645,966	70,622	627,855	698,477	1,344,443
Native States					ļ	•			
Hyderabad	22,251	-	22,251	- 1	22,251	-	2,195	2,195	24,446
Central India	8,065	_	8,065	-	8,065	-	17,011	17,011	25,076
Rajputana	340	_	840	-	340		3,817	3,317	3,657
Total	30,656		30,656		30,656	_	22,529	22,523	53,179
GRAND TOTAL	584,592	91,585	676,177	445	676,622	70,622	650,378	721,000	1,397,622

IX.—The mortality of the famine.

84. It is impossible at the present time to deal with this subject completely or satisfactorily, yet it is of too great importance and interest to be entirely omitted from any narrative of the late famine. The latest published death-rate returns for the several provinces, in which the mortality is classified according to causes of death, are for the month of July 1897. The approximate death-rate for each month in each affected district has been obtained under special arrangements up to August. But in this return the causes of death are not shown. Imperfect
High mortality and periods of scarcity
as the materials are, they are unfortunately
sufficient for the conclusion that a consider-

able excess in the mortality rate has attended the late famine. The relation of the mortality of India to famine was carefully

considered in 1881 by the Famine Commission, and their remarks are very opposite to the present occasion :-

"The hope that any human endeavours," write the Famine Commission, "will altogether Beport of the Famine Commission, Part I, paragraph 83 prevent an increase of mortality during a severe famine is untenable. It is impossible for the State entirely to counteract the effect of high prices, the cessation of wages, the disturbance of the ordinary routine of life, the general results of shortened food-supply to millions of people. No imaginable system of relief will completely meet all the various degrees of privation and suffering which a famine produces, and which are all more or less prejudicial to the public health and life, though many are too indefinite and obscure to be dealt with by any machinery of official charity, however elaborate and well contrived. There must always be suffering and want which will escape notice; and however extensive be the measures of public aid, and however reasonable be the terms on which it is offered, there will always be classes who from fixed habits or social institutions of various sorts, or from their personal character or ignorance, will neither help themselves nor be helped, and who, though they suffer from extreme want, will linger on without applying for or accepting relief till it is too late to save their lives."

85. The Famine Commissioners proceed to show that not only is the general death-rate of India when compared with that of England high, but it is liable to far greater variations. They remark that the yearly death-rate of many

Indian towns rises occasionally for many months together to rates varying from 40 to 100 per mille, and even higher; and they give as a typical instance the epidemic of malarial fever which in the North-Western Provinces and Oudh in 1879, when no scarcity whatever existed and prices were moderate, raised the death-rate in some districts from its ordinary total of two or three per mille per month to nearly 40, the death-rate for the whole province of October 1879 from the normal of 3.4 to 10 per mille, and of the whole year from the normal of 23 to 45 per mille. In this case famine was absent. But it is a well-ascertained law, the Famine Commissioners remark, that pestilence accompanies famine, and that the two are the twin-offspring of drought, "which, while it withers the crops, "exposes the diminished water-supply to pollution," and brings about "abnormal "conditions of temperature and humidity" Both from these causes and because great and prolonged scarcity must necessarily impair the general health of the population and render it an easy prey to disease, the occurrence of a high death-rate in a famine year is to be expected: and it is impossible to resolve the general death-rate into the portions due respectively to abnormal sickness and disease and to privations from want of sufficient food. An attempt has been

Attempted recording of privation deaths.

made in the recent famme to have all deaths directly due to starvation, and also—in some provinces—indirectly due to the effects of

privation, separately returned. The results in a way are satisfactory, as, with the one exception of the Central Provinces, no province in India has returned in any month more than one or two, at most, verified deaths from starvation. Usually the return has been blank. Reserving the returns of the Central Provinces for separate discussion, it may be said in explanation of the returns of the other provinces that village inspection and relief have in the late famine been so widely extended as to ensure food being brought within the reach of all persons of settled habitat. Deaths in which privation or starvation has been suspected have virtually been confined to stray cases of unknown wanderers found dead in the open country and of persons dying after admission to a poor-house. In such cases verification of the cause of death has not been found possible, and they have properly been excluded from the return.

86. In the Central Provinces this rule of exclusion was not adopted, and the reporting agency, which consists of village Incorrectness of such returns watchmen and subordinate police officers, was permitted or directed to return as deaths due to starvation or privation all cases in which starvation or privation might be conjectured from circumstances more or less general. In the earlier months of the famme the large number of deaths returned in these provinces as due to these causes attracted attention and the matter was looked into. It was then found that the returns included many doubtful cases and many cases which could not on any theory be properly ascribed to these causes. In one district all deaths occurring in a poor-house were so returned. In another district the same practice was followed with regard to the deaths of persons on the village gratuitous relief lists. Deaths of wanderers on the roads or in the fields, which were as likely to have been due to cholera as to principly were frequently returned under the letter head. privation, were frequently returned under the latter head Commenting on these and similar errors the Commissioner of Jubbulpur wrote in May to the following effect: "The determination of whether a death is or is not due to privation is a "delicate and difficult operation, and I do not think that our reporting agency "(village watchmen and subordinate police officers) can be relied upon to discriminate these deaths satisfactorily. It may be said indeed that proper "verification should make the cause of death certain, but where, as is the case with "most deaths from starvation, the victims are wanderers without friends or "companions who can give any information regarding them, any real verification is "quite out of the question, and I do not think that any great weight should be "attached to statistics given under this head." The general correctness of this view is indisputable. It is unhappily certain that the mortality directly due to privation or starvation has been very much greater in the Central Provinces than elsewhere. Famine of the acutest type has existed in these provinces for months. They have been overrun with famished refugees from Native States, and the practice of wandering has prevailed there to an infinitely greater extent than in any other part of British India. All these circumstances have been productive of the mortality specially associated with the privations of famine. But there is no correct return of such mortality in existence, and it is important to recognise the fact

87. The general death-rate of the population in each affected district in British India for each month from October 1896 to August 1897 is given in Appendix III. The results for each province may be briefly noticed. In Madras the excess mortality over the normal has been slight, and such excess as is observable in the returns is confined to the Ganjam and Vizagapatam districts and to the Bhrdrachalam subdivision of the Godaveri district, and is chiefly due to cholera and the four affected Deccan districts the death rates in successive months have them more generally below than above the noise. In Bombay up to April 1897 there was nothing in the monthly death-rates of these districts to distinguish the year as one of scarcity. But from May onwards the death-rates, as the following figures show, have been abnormally high, even if deaths from cholera be excluded.

	Mont	MONTHLY DEATH-RATE 1897 FROM ALL CAUSES					MONTHLY DEATH-RATE IN 1897 EXCLUDING CHOLERA.				
	May	June	July	August	May	June	July	August			
Ahmednagar	3 32	3 50	6 86	7 18	3 32	3 38	5 20	5 68			
Khandesh	2 95	3 17	3 62	7 32	2 95	8 10	3 12	6 08			
Nasık	3 23	5 25	6 54	8 06	კ 23	3 69	5 41	6 99			
Poona	2 59	5 72	10 10	7 18	2 55	3 63	8 22	5 82			
Satara	7 12	5.81	5 82	5 52	8 62	3 65	4 52	5 19			

7 72

5 25

5.78

518

8 41

3 86

5 25

4 75

4 12

6 87

4 56

Sholapur

Bijapur

Plague has been rife in several of these districts, and owing to the protracted break in the rains in July and August general climatic conditions have been very unfavourable to health. Prices have been persistently higher in the Bombay than in the Madras Deccan, and at the end of August they continued to rise, while in Upper India a fall had set in. Until the period of tension was terminated by the opportune and heavy rainfall of September, there was undoubtedly much privation among the lower classes of these districts. Up to June the good physical condition and the well-nurtured appearance of the applicants for relief, and of the relief labourers, in the Deccan districts of Bombay was frequently remarked on by the Santary Commissioner in his inspection tours. Since then his reports have noticed signs of deterioration in this respect, and his observations appear to be borne out by the increase in the mortality of the population

88. In Bengal, the public health in the affected districts—even in the worst parts of North Behar—has been singularly good, evidencing the comparative shortness of the famine, and the good condition of the people at the time of its commencement in November last, and also evidencing the effective character of the relief measures taken by the Government of Bengal. The province had not been afflicted by a continuous succession of bad harvests, and through the early setting in of the

	August death-rate.	rains in Bengal, and the obtaining of an early autumn harvest, it has been the first
*Palamau Manbhum	· · 6·43 4 49	to pass out of the late disastrous season into one of assured prosperity. The August
Hazarıbagh . Lohardagga	. 10 51 . 12 07	death-rates in some of the districts were high, notably in some districts of Chota Nagpur *

But the excess over the normal is in these cases due to a severe epidemic of cholera.

89. The death-rates of ten districts known to have been the most seriously distressed in the North-Western Provinces North-Western Provinces and Oudh. and Oudh are, month by month, as follows :-

Division.	District.	October.	November	December	January.	February	March.	April	May	Јппе	July	Angust
Allahabad . {	Banda Hamirpur . Allshabad Jhansi	4 20 8 06 2 37 7 37	4 39 6 13 2 08 5 86	4 71 5 85 8-84 5 29	5 10 5 08 3 55 4 92	4 81 3-64 3 48 4 16	5-09 8 41 5-40 8-78	5 28 2 15 4 41 2 59	4 73 2 97 2 98 2 73	3 60 4 97 8 09 8 25	2 62 3 80 2 45 3 18	2 61 6-62 2 70 4 40
Lucknow .	Jalaun Lucknow Unao . Rai Bareli Sitapur Hardoi	3 24 2 01 1 96 2 01 2 90 4 43	3 01 2 25 1 73 2 37 2 63	3 29 3 20 2 59 3 71 2 61 3 49	3 29 3 87 3 63 4 81 2 52 4 89	275 353 351 438 230 40	8 09 8 80 3 86 5 42 2 49 4 71	2 62 3-91 8-52 5 21 3 68 5 27	2·34 8 41 8·08 4 01 3 89 8 51	8 67 8 06 2 34 2 95 2 96 2 95	4 39 4 89 2 81 2 94 2 70 4 87	6·19 6·00 3·26 3·64 8·11 5·72

Of these death-rates it may be said that though, taken collectively, they represent a mortality considerably in excess of the average over a series of years, there is no district in the table of which the death-rate of one month, at least, of the series is not below the normal for the month. This appears to connect the fluctuations with climatic conditions. It may also be remarked that there is little or no sign in these death-rates of progressive pressure of distress. The death-rates are collectively lowest in May and June 1897, when famine was at its height. They rose again in August, when food and employment became more abundant. The highest death-rates in the series occurred in October 1896. Enquiry made at the time showed that in the districts of Hamirpur and Jhansi where these exceptional death-rates were recorded malarial fever was very prevalent. Again the rise to 6.62 per mille in August 1897 in Hamirpur, and to 6.19 in Jalaun in the same month, was largely due to cholera. The high rates returned

in March and April in the Allahabad district Per month November Per mille October were similarly occasioned. It is also to be 8 33 6 90 7 59 9 10 6 07 4 14 4·14 7·16 noticed that the highest death-rates in the *Bareilly ... Moradabad table are more than paralleled by the rates returned in October and November 1896, Shahjehanpur Pilibhit ... by four districts* in which distress was

acknowledged to be slight, and where the high mortality was undoubtedly due to unfavourable climatic conditions and not to privation.

90. In the affected tracts of the Punjab the monthly death-rates have been exceptionally low from the beginning to the end of the famine. Even in the Hissar district in which severe distress prevailed, the mortality from October 1896 to August 1897 is less than that for an average of years. The general health of the province has been extremely good and there has been a singular absence of malarial fever which in most years is very deadly in parts of the Punjab in the autumn months. As regards therefore the Punjab no exceptional mortality is associated

with the late famine. 91. The monthly death-rate per mille of the population of the Central Provinces from October 1896 to August 1897 Central Provinces. is as follows :-

1896.			1897.							
October.	November.	December	January.	February.	March.	April.	May.	June.	July	August.
4.86	3-77	3 72	3.84	3-59	3-77	4.04	5.93	7-53	6 47	8-35

The annual death-rate for the province in the three years before 1896 was, respectively, 27.70 per mille for 1893, 37.22 per mille for 1894, and 36.75 per mille for 1895. The monthly rates given above represent a mortality larger in excess of these annual rates. But it is to be mentioned that the death-rate commenced to the goal that the death rate for the death rate of the second of the second sec to rise early in 1896 and that the death-rate for that year was 4905. Causes therefore were at work injuriously affecting the public health of the population of the province before the failure of the crops in September of that year plunged it into intense distress

92 The monthly death-rates in the several districts of the Central Provinces during the period covered by famine operations present extraordinary fluctuations. In October 1896, the death-rate was 50 per cent. or more in excess of the normal rate for the month, in nine districts out of the eighteen into which the provinces are divided The districts showing an excess rate lay chiefly in the Naibudda Valley, the highest rates being in Damoh (102), Saugor (81), Jubbulpur (74), are divided and Mandla (60) In November there was an improvement, as in five districts only was the recorded rate for the month 50 per cent or more above the normal rate From December to April the number of such districts varied between eight and nine, the highest rates recorded in February being in Jubbulpur (6.7), and Mandla (7.1); and in March in Jubbulpur (7.7), Mandla (6.7), Balaghat (6.7), and Bilaspur (5.2) The addition of Bilaspur march to the districts with the greatest mortality, is significant, as it indicates the spread of severe distress from the Nerbudda Valley, and the Satpura plateau to the rice-growing plain of Chhattisgarh. In April, cholera was very destructive in several districts, and in the two following months greatly increased in virulence, 15,600 deaths being recorded as due to that cause in May, and 21,000 in June. The mortality from all causes in some districts was accordand 21,000 in June. The mortality from all causes in some districts was accordingly very high, six districts in May returning a death-rate between 7 and 8 per nulle per month, and four districts in June returning a death-rate above 10 per mille. Excluding deaths from cholera the districts with the highest death-rate in each month from April onwards are as follows:—

	April	Мау	June	July	August
Number of dis- tricts with mortality from all causes 50 per cent above normal		13	- 16	15	16
Districts with highest death- rate, excluding cholera deaths		Jubbulpur (52)	Jubbulpur (5 0)	Saugor (80)	Saugor (11:5)
			. , ,	1 , ,	[
	Narsinghpur (4 6)	Saugor (5 8)	Saugor (85)	Seom (80)	Seoni (12 1)
	Bilaspur (5.7)	Damoh (5 2)	Mandla (6.9)	Mandla (14 2)	Mandla (161)
		Mandla (5 1)	Narsinghpur (5 9)	Narsinghpur (5 8)	Narsinghpur (7
		Narsinghpur (5 3)	Nımar (5 4)	Betul (64)	Betal (11 5)
		Nımar (5 3)	Raipur (57)	Raipur (6 2)	Raipur (9 5)
		Bilaspur (5 0)	Bılaspur (6 8)	Bilaspur (94)	Bilaspur (124)
		Hoshangabad (5 1)			
_		1	1	i	I

^{93.} The continuous rise in the death-rate of so many districts after the disturbing element of cholera mortality has been eliminated, is one of the most perplexing questions which have arisen in connection with the famine in the Central Provinces. It has occurred at the very time when the relief organisation was most complete and extensive and the relief expenditure of the State at its highest point It was shown in a preceding section of this narrative that strenuous efforts were made in this stage of the famine to extend village relief and multiply children's kitchens. But among the hills and torests which are the characteristics of the greater portion of the provinces the difficulties of the relieving officers, especially in the unhealthy season of the rains, were far greater than in the plans of Upper India or the Deccan, and they have

had to deal with aboriginal races who are proverbally shy and distrustful. In the more open and settled country the petty cultivators seem to have clung to their homes with extraordinary pertinacity, and to have accepted great privations rather than seek for relief. It is comparatively easy to secure to relief workers a sufficient subsistence, and to relieve in their homes the aged, the infirm and the young, who are clearly incapable of work and who are fit recipients of gratuitous relief. But it is very difficult to deal with persons who are capable of work who actually have employment in their fields and villages, but who cannot earn enough to properly support themselves and their families with food at familie prices. The Chief Commissioner has summed up this difficulty in a passage which, though it has been already quoted, may be repeated:—"It has not," he says, "been possible to counteract the effects of a scanty allowance of "food in the case of the many thousands of persons who had not taken advantage "of the relief offered them, but had preferred to remain at home, looking after "their crops, or accepting private employment at a low and insufficient wage." There are persons whom no form of Government relief, except such as would "completely take the place of private employment, could reach." Such persons, though their vitality may be low and their physical powers enfeebled, can drag through the healthy months when existence is easy. But they fall a ready prey to malaria and damp in the unhealthy months of the rains, and to dysentery and other smalaria and damp in the unhealthy months of the rains, and to dysentery and other smalaria diseases which then prevail. The classified returns of deaths for July show that out of 61,445 deaths in these provinces from all causes, 35,475 were recorded as due to fevers, 8,638 to dysentery and diarrhea, and 5,243 to cholera. The deaths from fevers and dysentery and diarrhea, were much in excess of the normal number for the month. The August returns, when they heads "

Berar province is divided have shown little excess over the normal mortality of the month, and where excess is noticed it is due partly to deaths among wandering immigrants from the Central Provinces, but chiefly to deaths from cholera. This is the explanation of the high rates recorded in August in Amraoti (8.0), Akola (11.2), and Basim (7.8), districts, in which the general condition of the resident population was good or fair, and in which such distress as at one time existed had pretty well disappeared. In the distressed districts of Upper Burma cholera

Upper Burma tressed districts of Upper Burma cholera has also caused the death rates to rise in particular months, but, on the whole, they have not been high It is, however, to be observed that the machinery for death registration is as yet imperfect in this part of British India, and the returns are not to be rehed on From Native States no reliable information on the

Native States

subject is forthcoming, but from the miserable condition of the crowds of wanderers from Bundelkhand and Baghelkhand who flocked to the poorhouses in the Narbudda valley districts of the Central Provinces, it may be conjectured that the mortality in the affected parts of Central India has been high. It could not well be otherwise. The drought in those tracts was fully as intense as in British Bundelkhand, and the relief arrangements were necessarily less complete than in British territory.

X. Statistics of cost and relief.

95. The direct expenditure from the revenues of British India incurred in the relief of distress from the 1st November 1896 to the end of September 1897 may be approximately taken at Rs. 6,80,00,000 (Rx. 6,800,000) This, however, is only

[•] Since this was written further information has been received from the Central Provinces which goes to show that a special type of malarial fever of a very fatal kind has prevailed in an epidemic form during the late rains in these provinces. There is evidence to the effect that mortality has been abnormally high, not only among the poorest classes, but also among the well-to-do, and that villages have had conspicuously high death-rates in which no emacated person could be found Extracts from this evidence are given in a Note at the end of this narrative

the expenditure which under the standing financial rules is exhibited in the accounts under the head "Famine Rehef" Much expenditure which is indirectly due to famine, such as compensation to menial Government servants or to soldiers for dearness of food, additions to existing civil establishments on account of the pressure of work, additions to medical establishments, and the like, go under other expenditure heads, and are not specifically charged to Famine Relief. A very important form of relief, namely, loans and advances to landlords and cultivators, with the object of providing employment on works of land improvements in distressed tracts, or for the purchase of seed and cattle, does not appear under "Famine Relief, but under the Debt head, in the financial accounts According to the returns made by Local Governments up to the end of August, the disbursements on account of famine loans amounted to Rs 1,28,77,000 (Rx 1,287,700) Another consequence of famine is the decreased yield of many heads of revenue; but the only one which here claims notice is that of land-revenue, since suspensions of the land-revenue demand are an integral part of famine relief administration. According to the returns of the Local Governments, land revenue to the amount of Rs 1,80,53,000 (Rx 1,805,300), falling due between the 1st November 1896 and the end of August 1897, has been suspended. A good deal of this will in all probability have eventually to be remitted. It cannot well be otherwise. In districts where famine has been most intense, the small landowners will recommence the cultivation of their holdings not only without resources beyond their agricultural implements and cattle, but heavily in debt to the State for land revenue and for loans and advances with good seasons the struggle to regain prosperity will be severe, and in such cases a lement policy in the matter of arrears of land revenue is obviously the only one to be pursued.

96 Distributed by Provinces the direct expenditure on famine relief, the amounts loaned to landholders and cultivators, and the land revenue suspensions, so far as at present reported, appear as follows:—

Provinces				Direct expenditure on famine relief to end of September	Loans and advances to 31st August	Land revenue suspended to 31st August	
Madras .				Rs 91,00,000	Rs 16,43,000	Rs 28,70,000	
Bombay			•	1,11,00,000	46,68,000	1,56,000	
Bengal .	,			1,13,00,000	11,22,595	Nil	
North-Western Pro	vinces ai	ad Or	ıdh	1,95,00,000	18,60,336	1,02,80,000	
Punjab		•		18,00,000	7,53,200	16,46,000	
Central Provinces			•••	1,41,00,000	26,98,000	31,01,000	
Burma	••	••	•••	11,00,000	1,32,000	Nil	
	Total			6,80.00,000	1,28,77,131	1,80,53,500	

As illustrating differences of system in different Provinces, it may be noticed that in Madras the revenue suspensions have been extensive and in Bombay very small; on the other hand, the sums advanced to the landholders in the form of loans has been much larger in Bombay than in Madras. It is reported by the Government of Bombay that every precaution has been taken to ensure loans and advances being applied by the recipients to the objects for which they have been obtained, and that small land improvements of the nature of wells and tanks and reclamation of waste have been vigorously carried out through such funds. But for this it might be surmised that the State by lending money out of one pocket had managed to recover on account of the other. At the beginning of the famine the Government of Bombay anticipated that large suspensions of land revenue might be necessary, but as time went on, the cultivators were found

to be considerably better off than was anticipated, and the land revenue seems to have been collected without difficulty or resort to coercive processes.

97. Compared with the expenditure on other great famines the expenditure on the late famine cannot be regarded as other than moderate. In the Behar Famine of 1873-74, in which a population of about

famines

1873-74, in which a population of about fourteen millions was affected, but which is described by the Famine Commission as "a famine of unusual brevity, and of no exceptional severity," the sum of Rs. 6,61,00,000 (Rx. 6,610,000) was spent. In the terrible Madras Famine of Rs. 6,61,00,000 (Rx. 6,610,000) was spent. In the terrible Madras Famine of Rs. 6,300,000). In the Bombay Famine of the same year, in which a population of six millions was severely, and a further population of four millions, slightly affected, the expenditure was Rs. 1,14,00,000 (Rx. 1,140,000). Of these three famines, the Bombay Famine of 1876-78 is the only one which meaning of economical and efficient administration of relief, is comparable with the famine of the present year. In the late famine, a population in British India of forty-five millions was severely, and a further population of twelve millions was slightly affected. Relief has been given without stant or limitation, though subject to recognized tests and conditions, for a sum which, even should it reach Rx 7,300,000 by the time relief operations are over in all Provinces, will yet be only Rx. 700,000 in excess of what was spent on the Behar Famine of 1873-74. If it be the case, as has been stated by the Government of Bengal, that the famine of this year in Behar was as severe as that of 1873-74, an excellent standard of comparison exists. The Government of Bengal has in 1896-97 relieved at one-sixth of the cost and in an admittedly adequate manner the same area and population which was relieved in 1873-74 at the cost of Rs. 6,61,00,000 Much of the very large expenditure in 1873-74 was due to special preparations which the Government, tearing an absolute dearth of food in North Behar, undertook by importing rice from Burma and transporting it to the famine districts. Such operations, even if they were necessary in 1873-74 was due to special preparations which the given and particularly in Behar. But apart from this great item of expense in the Behar famine of 1873-74, t

• Famme Commission's Report, Part III , page 145 of relief for over 7 months,* and in the worst tracts this percentage was largely exceeded. This year the numbers on relief

in the five districts of North Behar in no month exceeded 9.5 per cent. of the total population of the distressed areas, and for the 8 months from February to August they averaged less than 7 per cent. That this measure of relief has been ample has been nowhere disputed, and it seems to be conclusively established by the lowness of the death-rate — From this the extent to which relief given in the Behar famine of 1873-74 erred on the side of profusion may be inferred

98. The Behar case therefore shows that in a famine which does not extend beyond 9 months or a year, which, though it may be severe, is not intense, and which finds the people in good condition, not more

than from 7 to 9 per cent. of the population should at the outside require relief. The rule is a very general one, as the ratio will be exceeded if famine be intense, and it will prove too high if distress is not severe. Taking the population of the distressed areas in British India in the late famine at 45½ millions, 6.5 per cent. were in receipt of relief from January to August, and 8 per cent. in the two months of May and June before the rains. In the North-Western Provinces and Oudh, nearly 10 per cent. of the population of the distressed areas were on relief in February, but the average for the 8 months from January to August was only 6 per cent. In the Central Provinces, the ratio for the 8 months was 7 per cent., and in May 9 per cent. In Bombay, the ratio was 9 per cent in March and April, when relief was at its maximum. The district ratios are still more instructive, as showing the length to which it may be necessary in cases of intense distress to extend relief.

In Bengal, the highest ratio was attained in the Champaran district, where 15 per cent of the population of the distressed area were in receipt of relief in February and March, and between 9 and 11 per cent in the three following months' Next came the Darbhanga district with a ratio of between 10 and 12 per cent in May and June These are the two districts in Behar in which distress was most severe, and there is evidence that owing to the smallness of the tenants' holdings, the poverty of much of the soil, the malarial character of the climate and the dense population, the people of the Champaran district are particularly poor and depressed In Punjab, over 10 per cent. of the population of the Hissar district were on relief from the middle of February to the middle of the Hissar district were on relief from the middle of February to the middle of July, and over 12 per cent. In June In the North-Western Provinces and Oudh, the Bundelkhand districts, where intense famine prevailed, naturally exhibit the highest percentages In the Banda district, over 31 per cent. of a population of 705,000 were in receipt of relief from February to June In the Jalaun district 25 per cent. were on relief during the same period. In Hamirpur and Jhansi, 16 per cent were on relief, and in Allahabad 19 per cent. In Oudh, relief was given for six months to 11 per cent of the population of the Hardoi district These represent the extreme cases in the North-Western Provinces and Oudh In other districts in those provinces, the proportion of relief rarely exceeded 3 or 4 per cent. of the total population The magnitude of the relief given in the 4 per cent. of the total population The magnitude of the relief given in the Bundelkhand districts of the North-Western Provinces and Oudh was surpassed in the distressed districts of the Madras Deccan in June, July and August this year In the Kurnool and Bellary districts from 30 to 40 per cent. of the population were in receipt of rehef during those three months, and in the Anantapur district 29 per cent. As famine was not intense in in these parts, there can be little doubt that the easy terms on which relief was offered attracted persons who would have refused relief under more exacting conditions Compared with the Madras figures the ratios of relief in the Deccan districts of the Bombay Presidency were comparatively low. The highest rates were attained in the districts of were comparatively low. The highest rates were attained in the districts of Bijapur and Sholapur, where for some months 10 to 12 per cent. of the population were on relief. In August the ratio in Bijapur rose to 16 per cent., and for a few days in September to 20 per cent. In Ahmedinagar also 10 per cent. of the population were on relief in February and March, and again in July and August. In the other districts in the Bombay Deccan the proportion was much lower. In the Central Provinces the highest ratios were attained in some districts. in May and June before the rains broke, but in others not until the last months of the famine With the setting in of the rains the numbers on relief works greatly decreased, and in districts where the numbers on the works had been large the decrease under this head of relief was not made good by the expansion of gratuitous

Percentage of population on relief at the end of-

	Мау	June	July	August	Septem- ber
Saugor Damoh Jahalpur Mandla Seom Narsinghpur Hoshangabad Betui Chundwara Ralaghat Raspur Bilaspur	10 14 16 10 8 14 17 13 10 16 15	6 13 10 5 6 8 7 10 11 9	6 14 15 5 7 8 13 9 11 14 9	6 23 13 10 9 9 11 11 10 18 10	6 10 13 10 17 7 9 18 13 11 12 13

rehef during the rains. In the table in the margin, which gives the percentages of rehef in different months in the twelve most distressed districts of the Central Provinces, the two Nerbudda valley districts of Hoshangabad and Narsinghpur, the Sangor district and the Raipur district are instances in point. In these districts the relief-work population up to the rains was exceptionally large. The numbers on the works in these districts declined rapidly when the rains set in, and although gratuitous relief has in these districts been since expanded, the expansion has not made good the fall in

the number of relief workers. On the other hand, the Betul, Seoni and Bilaspur districts are instances of the great increase in gratuitous relief and children's kitchens which in the latter months of the famine has been forced upon the authorities by the special circumstances of the season, and the condition of certain classes of the people.

99. A convenient method of stating the total quantity of relief given in a province or district is to express it in the form of relief units of one day each. Thus a person who is relieved throughout a month of 30 days counts as 30 units. By

adopting this method the volume and cost of rehef in each Province can be readily compared. In Appendix V the number of rehef units relieved from October 1896 to September 1897 is shown to be 800 millions, or excluding Berar, which is administered under special conditions, 796 millions. The direct expenditure on rehef in British India (excluding Berar) has been shown to approximately amount to 680 lakhs of rupees up to the end of September 1897. The average cost per relief unit, that is, of one day's rehef for each person, works out to '085 of a rupee, or little over 1½ annas.* As this includes expenditure on tools and plant and on establishment, in addition to the actual sums spent on relief, the scale of relief seems extremely low, especially in a year when an anna would buy but 1½ or 1½ lbs. of coarse grain, and sometimes not that. But it has to be remembered that relief has been given to every member of a family in want, down to the infant in arms, that about 25 per cent. of the relief units were children, and that the relief wages and doles were regulated with the knowledge that in many places the people were not at the end of their resources. Low as the cost has been in British India as a whole, in

-	Millions of relief units	Expendi- ture on relief	Cost per relief unit
		Rs	Rs
Madras	92	90,00,000	098
Bombay	11	1,11,00,000	098
Bengal	139	1,13,00,000	080
North-Western Pro- vinces and Oudh.	284	1,95,00,000	-070
Punisb	21	18,00 000	1036
Central Provinces	138	1,41,00,000	103
Burma	1 8	11,00,000	189

been in British India as a whole, in particular provinces it was even lower. The lowest rate was reached in Bengal and in the North-Western Provinces and Oudh. The rate in the latter provinces is equivalent to 1·12 annas per unit. The highest rate was found in Burma, which is due to rehef being chiefly given there in the form of wages to relief workers, most of whom were able-bodied persons doing a good task and earning a substantial wage. The high rate in the Central Provinces is

probably due to the very high prices which have continuously maintained there, and which have necessitated a correspondingly high scale of money payments.

XI .- The grain trade and the railways.

100. Among the measures which were taken by the Government of India in the late famine for obtaining and pub The weekly return of grain imports hishing information as to the course of the and exports.

grain trade throughout the country was one which is believed to have proved of considerable public utility. Arrangements were made in each district by which the district officer at the end of each week received a return from each railway station in his district of the imports and exports of grain during the week. These returns were totalled up for the district and communicated to the Statistical Bureau in Calcutta, which collated and published them week by week for the whole of India. Anyone studying these returns could form a good idea of what each district was doing in the matter of importing or exporting grain, and this information proved valuable both to the trade and to the Government In Appendix VII to this Narrative a summary of the statistical information thus collated is given. It soon became apparent from the weekly returns that although the grain trade was active and alert, and the movements of grain throughout India considerable, there was not that vast drain of food from one province to meet the necessities of another that marked the famine of 1876-78. In the great Southern India famine of 1876-78 the railways were taxed beyond their carrying capacity to feed the population of Madras, Mysore and Bombay. Grain lay for weeks at railway stations and in goods sheds all over the country waiting for carriage, and this notwithstanding the precedence which had been given on the railways to grain consigned to the famine districts over all other classes of traffic. In 1876-78 the Madras Railway carried nearly 1,000,000 tons of grain, and the South Indian Railway nearly 400,000 tons, into the

 $^{^{\}bullet}$ When the exchange value of the rupee is 16 pence, the anna is equivalent to a penny. At the present moment the exchange value of the rupee is $15\frac{3}{4}$ pence

distressed districts of Madras. During the same period the railways carried 267,000 tons of gram into the distressed districts of the Bombay Deccan and 166,000 tons were conveyed into them by carts up the ghâts from the small ports on the coast At no time during the late famine has there been excessive pressure on the This in itself is not a conclusive fact in the comparison, as the carrying power of the Indian railways to any one point is probably quite double what it was in 1876-78. But at no time during the present year has the grain-trade been in an excited state, nor so far as at present an opinion can be formed in the absence of the complete railway returns for the months in question, has the traffic in grain approached in volume that of 1876-78 The explanation seems to be that, owing to the wide area affected by the drought, there was no province in a position of such security as to be able to let very much of its surplus go. Prices throughout India were nearly on the same level, and markets were too sensitive for very large and continuous exports or imports. Most of the distressed districts also seem to have had considerable reserves of food stocks at the beginning of the famine, which were drawn upon as required. This was eminently the case in the Central Provinces The largest import into any district in those provinces

tamme, which were drawn upon as required. This was eminently the case in the Central Provinces. The largest import into any district in those provinces from January 1897 to September was 17,300 tons unto Nagpur. This represents nine months' food for about 140,000 persons, the population of the district being 758,000. In other districts which were much more distressed than Nagpur, the imports of food were considerably smaller. Saugor imported 12,000 tons during the period covered by the returns and Bhandara 10,700 tons. On the other hand, Raipur and Sambalpur exported large quantities of rice, the nett export being 22,600 tons from Sambalpur and 14,000 tons from Bilaspur In Bengal the imports into certain districts were on a larger scale. Darbhanga stands first with a nett import from January to September of 44,500 tons, followed by Saran with 44,100 tons and by Muzaffapur with 32,900 tons. These imports were chiefly Burma rice from Calcutta. Other Bengal districts exported largely, notably Burdwan (60,958 tons), Birbhum (59,308 tons), Midnapur (39,503 tons), and Balasore (42,821 tons) It is not known to what places these exports chiefly went, but possibly a good deal was taken by Calcutta In the North-Western Provinces and Oudh the districts in which distress was most intense show, as might be expected, the largest importations, Allahabad having a nett import of 45,529 tons, Banda of 23,573 tons and Jhans of 17,123 tons The Meerut Division, as might also be expected, exported considerable quantities. In the Punjab the Hissar district imported 35,985 tons, a quantity sufficient to teel for nine months more than one-third of the population of the district Some of the Punjab districts exported largely, especially those of the Jalundhar Divisions. The Decean districts of Bombay all show considerable imports, Poina importing 38,700 tons, Khandesh 37,800 tons, Bijapur 25,500 tons and Satara 21,900 tons. But as above remarked, these unports, though large, are not on the scale of the unports of 1876-78. The case of Bijapur is a good illustration of the extent to which old stocks of grain must have existed in this part of the country at the beginning of the drought. This district, though it practically had no crops at all in 1896-97, was able to get through the famine with an import which represented food for about one-fourth only of the population Of this import, more than half occurred during the last three months of the famme, indicating that local reserves of food were by that time on the point of exhaustion. Had not rain opportunely fallen in September 1897, the grain imports into the Bombay Deccan would in all probability have usen to very great dimensions. The distressed districts of the Madras Deccan imported comparatively little grain from outside. The nett import from January to September into Bellary was 16,900 tons, of which 10,700 tons were imported in the last three months. Kurnool imported only 3,400 tons. Anantapur and Cuddanah show a months Kurnool imported only 3,400 tons. Anantapur and Cuddapah show a small nett export. On the other hand, some of the Madras districts show very small nett export. On the other hand, some of the Macras districts snow very large exports, notably the Tanjore district (143,000 tons), the Godavery district (53,000 tons), the Kistna district (43,300 tons), and the South Arcot district (35,800 tons) Much of this grain, it is believed, went to the Bombay Presidency, where prices have ruled continuously higher than in Madras. There is little doubt that owing to good harvests generally in 1895–96, and to good harvests in the southern districts in 1896–97, the Madras Presidency at the beginning of the famine held large stocks of grain in excess of its requirements, and that the richer districts must have done very well in disposing of their surplus at very high prices. But for the distress prevailing outside its boundaries, and the consequent demand for grain throughout India, very low prices must have prevailed this year throughout the Madras Presidency.

101. No occasion has thus arisen during the late famine for the railways to exhibit their carrying capacity to its full extent. Still the grain traffic dealt with by them so quietly and easily was infinitely

greater than could have been disposed of by country carts and cattle, the sources of supply were infinitely enlarged through the virtual annihilation of distance as an obstacle to profitable trade and the cost and burden of transport was infinitely lessened. In many parts of India, especially the Deccan and Central India and the Punjab, the absence of water and foodder in a famine year makes carriage of grain by road for long distances almost impossible. Apart from the service actually rendered by the railways, the fact of their being there, and the knowledge of their great potential carrying power, have been of incalculable value. the railway imports of grain into Bijapur or Banda represented food for only one-fourth or one-third of the population of those districts, it was known that the import could be easily doubled at any time if the local demand required it. This knowledge gave complete confidence both to officials and to the public at large. Had Bijapur or Banda not been connected by railway communication with other marts, all the difficulties about food supplies which in such places have troubled the administration in past famines would assuredly have arisen this year in a most acute form. In 1877 grain had to be sent by the Bombay Government by cart to Bijapur as "the tract was so distant and difficult of access." In 1870 the Government of the North-Western Provinces and Oudh had to make similar importations into Bundelkhand to allay panic. These are two cases out of many in which, since the Famine Commission reported in 1881, railway communication has been given to remote districts liable to famine. What is true of Banda is equally true of the other districts in British Bundelkhand, and of the native states of Central India forming the Bundelkhand and Bagelkhand Agencies, and served by the Indian Midland Railway and its branches. What is true of Bijapur is equally true of Belgaum, Dharwar and the rest of the Deccan country traversed by the Southern Mahratta Railway. It is indeed difficult to realise the extent to which the task of famine relief has been simplified and facilitated over vast areas of India by the extension given to railways during the last fifteen years.

The railways recommended by the Famine Commission have been made.

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The Famine Commission found about 2,000 miles of open railway in India, and they came to the conclusion that the country would be adequately protected as to communications by the addition of about 10,000 miles to the existing mileage. In December 1896, over 20,000 miles of railway were open. The Famine Commission's wish has thus been more than fulfilled. Not only that, all the lines which they especially recommended for the purposes of famine protection, have, with one exception—the East Coast Railway, been made, and the line which form the exception is now in course of completion. The tracts which they singled out as specially deficient in railway communication comprised North Behar, the Bundelkhand districts of the North-Western Provinces, the southern Punjab and the southern Mahratta country of Bombay. They also drew attention to the advantages which would result from direct communication between the rich deltas of the Godavery and Kishna districts and the Madras Deccan, and between Orissa and Bengal. A glance at the modern railway map of India will show that these recommendations have been fully met. Not only north Behar, but also northern Oudh, have been thoroughly opened up by the Bengal and North-Western Railway system and its Tirhoot branches. The value of this system

has been abundantly proved in the late famine in Behar. The Bundelkhand districts of the North-Western Provinces and a large part of Central India are now traversed by the Indian Midland from Jhans to Itarsi, with a most valuable famme protective cross-line from Jhansi to Agra on one side, and from Jhansi to Banda, and the East Indian Railway on the other. This railway has been the salvation this year of British and Native Bundelkhand. The south-eastern districts of the Punjab have been brought into direct communication with the large grain-emporia of the North-Western Provinces and the Punjab, by the Rewari-Ferozepur line. On this line the Hissar district has depended this year for its food. In Bombay two branches of the Southern Mahratta Railway intersect the worst districts of the Deccan and southern Mahratta country from north to south, while the same system connects them with Mysore on the south, and with Madras, through Bellary and Kurnool, to the Kishna and the Godavery districts on the east. Until this system was constructed, this tract of country was more insecure and hable to dearth than any other part of British India. Now the surplus produce of the rich delta districts of Madras can now find its way into all parts of the Madras and the Bombay Deccan, and in the late famine this facility has been largely used The East Coast Railway from Bezwada on the Kishna river to Cuttack in Orissa, and thence north to Midnapur and Calcutta will complete the programme which the Famine Commission had in view. There is still another large railway system to be mentioned which was not within their purview, but which has proved of inestimable value to the Central Provinces in the late famine. The Bengal-Nagpur line, starting from Nagpur on the Great Indian Peninsula line, and terminating at Asansol on the East Indian Railway, traverses in its course of 600 miles the great rice-plain of Chhattisgarh, and has brought this once remote and maccessible country into connection with Bengal on the one side and Bombay on the other. An important branch from Bilaspur in Chhattisgarh to Katni on the East Indian Railway line, running from Allahabad to Jubbulpur, also links the Chhattisgarh plain with Upper India. In the late famme great stores of rice found their way by this railway system from Sambalpur and Raipur to many distressed districts in and outside the Central Provinces, and by the same route came 50,000 tons of Burma rice from Calcutta to Bilaspur and other distressed districts in the provinces. This railway has also been invaluable in other ways to the Local Government in its adminishas also been invaluable in other ways to the Local Government in its administration of the famine. Without it the head of the province would at its provincial head-quarters at Nagpur have been separated by over two hundred miles of road from the centre of the Chhattisgarh Division, and at such a distance effective supervision becomes very difficult. The still existing defects of railway communication in many parts of the Central Provinces, and the difficult character of much of the country, have, as it is, made famine administration in this part of India exceptionally arduous. That the task would have been very much greater had the Bengal-Nagpur Railway not been in existence, is obvious to anyone observing the place it fills in the map of the province. The obvious to anyone observing the place it fills in the map of the province. The present most pressing want of the provinces in the matter of further railway protection is a line to traverse in one or more directions the oblong block of country enclosed by the existing systems of the Great Indian Peninsula Railway and the Bengal-Nagpur Railway This oblong comprises a tangled mass of hills and upland plain, and amid these Satpura hills are situate districts such as Seoni, Betul, Mandla, Balaghat and Chhindwara, which have suffered much in the late famine and have given cause for continuous anxiety. Communication between them and the surrounding lowlands is at present conducted by means of roads with necessarily steep gradients, which tell heavily on the weak bullock carriage of the country, and which are consequently at all times serious obstacles to the trader, and in the rainy months almost prohibitive of traffic. Proposals have been made for a system of light railways to open up this country to protect it against a similar famine and to give it a market for its surplus produce in good years. These proposals, however, are still in the tentative stage, as very careful inquiry will be required before any decision can be pronounced on the engineering and financial difficulties with which the project is surrounded.

XII .- Irrigation and the Famine.

103. As the extension of railways tends to lessen the acuteness of a famine, so the extension of works of irrigation tends to Irrigation in 1877. prevent it. The extent to which effect has

been given to the recommendations of the Famine Commission in the matter of

* 2	irea ordinaril	y erregated in	1877.	
Province	Canals	Wells	Tanks, streams, etc.	Total.
Punjab	1,670,000	3,200,000	680,000	5,500,000
North-Western Pro- vinces and Oudh.	1,700,000	5,800,000	400,000	11,500,000
Bengal	860,000	600,000	40,000	1,000,000
Central Provinces	Nil	120,000	650,000	770,000
Berar .	Nil	Nul	100 000	100,000
Bombay	25,000	425,	000	450,000
Sind	1,800,000	Nil	Nu	1,800,000
Madras	2,000,000	2 300,000	3,000 000	7,800,000
Total	7,555,000	20,81	5 000	28,420,000

railway communications has been described. It remains to notice briefly what has been done to carry out the equally important recommendations made by that body with regard to the improvement and extension of works of irriga-tion The Famine Conmission found that of the 192 millions of acres cultivated in British India, about 281 millions were irrigated, of which 7½ million acres were

the rest from wells, tanks, running streams and the like.*

104. These figures were only approximately correct, especially as regards irrigation from wells and tanks. The area shown as irrigated from these sources in the North-Western Provinces and Oudh seems in excess of the actual facts. In the case of Sind the area under "canals" included private inundation canals as well as Government works. In the case of the Punjab the "canal" area included small mundation canals of a temporary character, which are now classed as "minor works for which no capital accounts are kept." Making deductions on account of these, the area irrigated from State irrigation works of a permanent character in 1877 cannot be put higher than 7 millions of acres. In the case of Madras no returns were available for the large zemindari estates, and even in respect of Government lands the area irrigated by wells had to be guessed at The figures given for well and tank irrigation in Bengal were also largely based on assumptions. The difficulties which the Famine Commission experienced in arriving at an accurate statement of the acreage protected by irrigation still exist. It can, however, be shown that under the head of "canal" irrigation a great advance has been made, and that the irrigation from wells and "other sources" has also extended in many provinces.

105. The recommendations of the Famme Commission related chiefly to canal irrigation, including in this term not only irrigation from rivers, but also irrigation from The recommendations of the Famine Commission. large storage reservoirs or tanks, in which the dramage of the surrounding country is caught and retained. Dealing first with The Punjab. the province of the Punjab, they urged the necessity for giving greater protection to the arid country between the Jumna and the Sutley rivers by enlarging the Western Jumna canal and by completing the Sirhind canal on the east bank of the Sutlej. They further recommended the gradual extension of irrigation canals in the waste waterless plains between the Sutlej and the Chenab, and between the Chenab and Jhelum rivers. All these recommendations have been acted on. The Western Jumna Canal has been remodelled and enlarged to provide water for the Sirsa branch, which gives irrigation to parts of the Hissar and Karnal districts. The Sirhind Canal was completed in 1887 at a cost of nearly Rx. 2,300,000, and irrigates between 800,000 and 900,000 acres. The Chenab Canal, between the Sutlej and the Chenab, will cost about the same sum. Though still an incomplete

work, it has already enabled 500,000 acres of virgin soil to be brought under tillage, and it will, when complete, irrigate over a million acres. The agricultural colonies on this canal are one of the happiest experiments of reclamation of waste which have been essayed in India. The value of the crops on this canal this year may, at a very moderate estimate, be put at Rx 2,100,000. In addition to these large works, several smaller canals have been constructed since the Famine Commission wrote, notably the Swat River Canal, at a cost of Rx. 363,000, and the Sidhnai Canal, and considerable sums have been expended on improving the Bart-Doab Canal and the minor inundation canals on the India and the Sutlej. The total capital expenditure on irrigation works in the Punjab, for which capital and revenue accounts are kept, now amounts to Rx. 7,800,000. In 1895-96 the area irrigated by these works amounted to 3,150,000 acres. In 1896-97, under the stimulus of the drought, the area irrigated from these works in the Punjab was 3,900,000 acres. Nearly 300,000 acres in addition were irrigated from inundation canals from the India, which are classed as "works for which no capital accounts are kept." According to a return made by the Agricultural Department, the total crop area of the Punjab in 1896-97 was 18 millions of acres, of which 8,200,000 acres, or 47 per cent, were irrigated. Canals irrigated 4,198,000 acres, wells fed from canals 413,000 acres, and wells and ponds 4,203,000 acres. When it is further remembered that the crops on unrigated lands were very poor, while the crops on irrigated lands were generally very good, some idea may be formed of the value of irrigation to the Punjab in a year of drought.

106. In the North-Western Provinces and Oudh the completion of the Lower Ganges Canal, the construction of a canal on the Betwa river in the Jhansi district The North-Western Provinces and Oudh. as a protective work for Bundelkhand, and the further investigation of the Sarda Canal project for Oudh, were recommended by the Famme Commission. The first two recommendations have been carried out-The Lower Ganges Canal has added, at a capital cost of Rx. 3,200,000, one million acres to the irrigable canal area of the province The Betwa Canal, which was executed at a cost of Rx. 400,000 charged to the Famine Insurance Fund, is capable of irrigating about 100,000 acres, and this year it has irrigated 85,000 acres. But in ordinary years, owing to the peculiarity of the predominant soils and the prejudices of the cultivators, the demand for water on this canal is disappointingly small. The Sarda Canal project is still under investigation, and it is still doubtful whether a canal would prove beneficial or remunerative in a tract like Oudh, where the rainfall is ordinarily sufficient and where irrigation from wells and tanks is extensively practised. The total capital expenditure on major and minor irrigation extensively practised works in the North-Western Provinces and Oudh now amounts to Rx 8,000,000, and in 1895-6 the area irrigated from them was 2,100,000 acres. In 1896-97 this rose to 3,100,000 acres. According to the returns of the Agricultural Department the total area cropped in the North-Western Provinces and Oudh in 1896-97 was 364 million acres, against an average of nearly 42 million acres. About 12,000,000 acres, or 33 per cent. of the total, were irrigated. This province, like

107. With regard to Bengal the Famine Commission, while admitting that
Orissa canals had been anything but a
success, were of opinion that an additional

the Punjab, would have fared very badly in the late drought but for its irrigation, and like the Punjab its canal irrigation has largely increased since 1877, while the

area irrigated by wells and tanks has certainly not decreased.

Rx. 400,000 would be well spent in raising the irrigable area from 183,000 acres to 500,000. They also recommended the investigation of certain projects for canals from the Gandak river in North Behar. Their recommendation as to the Orissa canals has been given effect to, and the total capital outlay on this system, which was Rx. 1,750,000 when they wrote, now exceeds Rx. 2,500,000. But the irrigated area in no year exceeds 180,000 acres, and in most years falls below 150,000 acres. The canals do not pay their working expenses, and continue to be an example of irrigation in a wrong place. On the Sone canals in Behar considerable sums have been spent since 1877, as the capital outlay has risen from Rx. 1,900,000 to Rx 2,600,000. The irrigated area from these works now averages about 400,000 acres, but in years of drought reaches 550,000 acres. The total capital outlay on major and minor irrigation works in Bengal exceeds Rx. 6,000,000, on which the interest charge

amounts to Rx. 239,000 a year, to meet which the nett revenue is only Rx. 12,000. The direct financial results of irrigation in Bengal are therefore disappointing.

108. This was also acknowledged by the Famine Commission to be the case in Bombay. The outlay on irrigation works in that Presidency amounted to Rx. 1,280,000 in 1877, while the area

irrigated was only 25,000 acres. The outlay on major works has now risen to Rx. 1,800,000, but the irrigated area rarely exceeds 60,000 acres, and the nett revenue is quite insufficient to meet the charges on account of interest. On minor irrigation works for which capital accounts are kept, and which irrigate about 26,000 acres, there is a further outlay of Rx. 650,000. Irrigation from State works thus shows no great advance in the Deccan or Gujerat since 1877. Referring to the disappointing results of the irrigation canals in the Sholapur district the Director of Agriculture in March last stated that the supply of water from the catchment areas must, from the first, have been largely over estimated. Always insufficient, it diminishes greatly in dry years. He admitted, however, that indirectly these reservoirs contribute to the irrigation of a larger area than is recorded against them, by improving the water-supply of wells beneath them. The same authority showed that since 1877 the progress in well irrigation has been considerable. In Sholapur, Ahmadnagar and Satara this year over 100,000 acres in each district were thus protected, in Poona 75,000 acres and in Nasik 60,000 acres. The loans made by the Government for wells in the present year have given a great stimulus to this movement, and everywhere in the course of his tour the Director was surprised at the activity shown in the repair and the construction of wells by the people.

109. With regard to Sindh the recommendation of the Famine Commission that the system of inundation canals from Sindh.

Sindh. the Indus should bejextended and improved has been fully carried out. The area irri-

gated by major and minor State works for which capital and revenue accounts are kept exceeds 1,200,000 acres; and there is a nett revenue of Rx. 100,000 on a capital outlay of Rx. 1,450,000. A further area of 1,100,000 acres is irrigated from minor works for which capital accounts are not kept, and which yield a nett revenue of Rx. 128,000. The total State irrigation in Sindh averages about 2,300,000 acres, which is a considerable increase on the figures of 1877.

110. The chief recommendations made by the Famine Commission with regard to Madras were that the important

and highly remunerative canals in the deltas

Madras.

of the Godavery, Kishna and Caveri should be completed, and that the Periyar irrigation project for providing water for nearly 200,000 acres in the Madura district should be undertaken. They also recommended for consideration the Sangam anicut system, which was calculated to irrigate 77,000 acres in the Nellore district, and the Rushikuliya project in the Ganjam district. On the completion of the three great deltaic systems about Rx. 1,100,000 has been spent since 1877, and the irrigation from them has increased from 1,600,000 acres to 2,200,000 acres. The Sangam anicut system has been completed at the cost of Rx. 310,000. The Penyar project is on the eve of completion at the cost of Rx 850,000, and the Rushikulya project, which will cost Rx. 440,000, is in progress. The total capital outlay on major irrigation works in the Madras Presidency is nearly Rx. 6,500,000, they irrigate an area of 2,700,000 acres, they have a nett revenue of Rx. 472,000 (excluding a nett revenue of Rx. 360,000 due to old irrigation which is not represented in the capital accounts), and they earn over 7 per cent. on the capital outlay. A further area of 535,000 acres is irrigated from minor works for which capital accounts are kept, and a further area of 3,234,633 acres from minor works, chiefly small tanks, for which capital accounts are not kept. This gives a total area of 6½ millions of acres of irrigation under State supervision in the Presidency.

111. Summing up the progress made in State irrigation since 1877, it may be said that the capital outlay on works for which capital accounts are kept has increased from Rx. 20,000,000 to Rx. 35,000,000, the gross revenue from

Rx. 1,688,000 to Rx. 3,100,000, and the area irrigated from 7 millions of acres to 10 millions of acres. In addition, from $4\frac{1}{2}$ to 5 millions of acres are irrigated from small State works, for which no capital accounts are kept.

XIII. - The Indian Famine Charitable Relief Fund.

112. The operations of the Indian Famine Charitable Relief Fund do not come within the scope of this narrative, but no account of the famine of 1896-97 would be complete which omitted mention of this most signal and beneficent manifestation of national benevolence. The sentiments of gratitude and appreciation evoked in India by this great tribute of England's charity have been vividly described by those charged with its distribution. Here it may be permissible to dwell on the almost incalculable value of the Fund as an agency in alleviating human suffering, and in restoring thousands of ruined agriculturists to their place in society. The responsibilities accepted by the State in India in a time of famine are very great. It undertakes to keep the people alive, and it helps them by loans and advances and suspensions and remissions of land revenue to return to their usual vocations and to retrieve their fortunes, when the calamity has passed. But it does not undertake to prevent all suffering or privation or to replace in each individual case the resources exhausted by famine In duty to the tax-payer it is also obliged to surround the offer of relief with certain conditions and self-acting tests of distress, to rigidly limit the amount of relief given to the minimum necessary to sustain life and health, and to withhold relief from those who, though they may suffer, are not in patent distress, and who refrain through feelings of pride, or caste or family prejudices, to apply for work or to appear at a public kitchen. There is thus wide scope for the legitimate exercise of private benevolence which, without paupersing or demoralising the people or relieving the State of its accepted obligations, will fill up the inevitable gaps in any State scheme of relief, and lighten the long train of indirect ills with which the State in its struggle with famine does not profess to deal. The presence or absence of such charity, organised on methodical principles and working in conjunction with the official system of relief, makes a world of difference to the afflicted population, and may vitally determine the degree of rapidity and completeness with which it shakes off the effect of the calamity, and returns to normal conditions of well-being. The magnitude of the resources placed by the public benevolence on this occasion at the disposal of the Indian Famine Charitable Relief Fund Association has enabled this great work the Indian ramine Charitable hence rulid Association has enabled this great work of restoration to be carried out on a very extensive scale. According to the latest financial return issued by the Executive Committee appointed to administer the fund, they have had the disposal of Rx. 1,646,000 in cash, besides large gifts of grain and clothing Of this sum, upwards of £765,000, which yielded on being remitted to India Rx. 1,225,000, has been received from the United Kingdom, Rx. 136,000 from English colonies and dependencies and foreign countries, and Rx. 285,000 from India itself Elsewhere it has been shown in the narrative that the direct expenditure by the Indian Government on famine relief up to the end of September amounts to Rx. 6,800,000. The Famine Fund has distributed in charitable relief a sum equivalent to nearly one-fourth of the direct expenditure incurred by the State. If it be remembered that the bounty of the Fund has in no wise displaced relief which otherwise would have been given by the State, that the State relief has not been confined within pre-determined financial bounds and has been limited only by the enforcement of certain conditions and tests, mostly of the self-acting order, some idea may be formed of the effect which this great independent stream of charity has had in softening the sharpness of distress and restoring countless humble households to comparative prosperity. The financial accounts of the Fund are at present incomplete, but so far as a judgment may be formed from the details of the expenditure which has so far been returned, it would seem that fully three-fourths of the Fund will be spent in "restoring to their original position those who have lost their all in the struggle, and in giving them a fresh start in life." Gifts of seed and cattle to the cultivator, gifts of tools and raw material to the artizan, gifts for the repair of runned houses and the replacement of household requisites, guts to keep the family from want until the

crops on the ground ripen, these are some of the most obvious ways in which this object has been effected. From all quarters overwhelming evidence pours in of the inestimable benefits conferred by bounty directed to this end, and of its recuperative effect on people whose spirits have been depressed and whose energies have been dulled by long continued misfortunes. If, as may be hoped, the stress of famine is now passing away and prosperity returning to the land, one of the most potent instruments to this much wished for consummation will be the Indian Famine Charitable Relief Fund of 1896-97. The renewed prosperity of India will constitute an abiding memorial of the large-hearted benevolence and sympathy which called that Fund into being, and made it what it was.

The 15th October, 1897. SIMLA.

Malarial Fever in the Central Provinces (see foot-note to page 50 of Narrative).

1 Extract from letter of Chief Commissioner, Central Provinces, No. 1948-F, dated 15th Qctober, 1897.

The month of September is in these Provinces always recognized, with August and October, as the most unhealthy season of the year, and a large increase of mortality is usually to be expected in this month. The figures for September are not yet available, but from such indications as may be gathered from the reports and from the weekly returns it may be hoped that, although in some districts, and those not the most severely distressed, the death-rates have again risen, there will prove to have been, on the whole, a sensible diminution of the terribly high rate reached in August. The rates given in the Commissioner's memorandum for the Jubbulpore Division show a very marked decrease in Mandla and Seoni, where the mortality in August was exceptionally high, and a slight increase in only one district, Jubbulpore, where the August rate was, considering the conditions of the year, remarkably low if these anticipations are confirmed by the special mortality return now under preparation, it may safely be said that the worst is now over, and that a rapid return to normal rates of mortality may be hoped for. There is no doubt from the observations made by officers who enquired personally and locally into the high mortality of August and September, that the bulk of it was due to fever, which attacked alike the poor and the well-to-do,—those who suffered from privation and those who did not. The Commissioner of Jubbulpore describes, in paragraph 12 of his memorandum, the effect of the "wave of malignant fever" which swept over Saugor. The account given by the Deputy Commissioner of Chhindwara (paragraph 7 of the Nerbudda memorandum) of the result of his personal enquires in the Sausar Tahsil of that district point to a similar condition of things there And reports to the same effect come from other districts also. Thus the Deputy Commissioner of Hoshangabad writes.—

"Fever this year is unusually prevalent, and no house is free from it

The main peculiarity in the mortality is the high proportion of deaths among children five and over, and persons fifty and over.

Harda I have not seen since the beginning of September, but in my tour in that tabsil I came across several recent deaths in really wealthy families"

And the Deputy Commissioner of Jubbulpore writes :-

"The unhealthy character of the season has greatly to do with the rise in mortality-Fevers are extremely prevalent in every quarter of the district."

A further proof of the unhealthiness of the season is to be found in the deplorable amount of sickness among the famine-relief staff. Officers of all grades have been repeatedly incapacitated by fever, and two—Lieutenant Hamilton Moore in Bilaspur, and Naib-Tahsildar Mukund Ram in Seoni—have died from illness contracted during their inspections. Both these officers, in their several capacities, had been doing excellent work, and both fell victims to their devotion to duty. The Chief Commissioner greatly regrets their loss

2. Extract from Famine Report for September 1897 of the Committee of the Jubbulpore Division.

The portentous increase in the death-rates of Saugor, Mandla and Seoni during the month of August was noticed in last month's report. It remains to accentuate the fact that during that month fever attacked certain tracts with pestilential severity. From some points of view the increase in the Saugor death-rate was one of the most unsatisfactory features of the month, as there were no such difficulties to be encountered in this district as in the wilds of Mandla and Seoni, and famine relief should have been as efficient as in Damoh or Jubbulpore I have lately spent twelve days touring in the interior of the Saugor

district and have made detailed enquiries into the mortality of the villages I came across. The general results have been separately reported, but I may note here that they indicated that a wave of malignant fever passed across the district such as was experienced in some districts of the North-Western Provinces after the famine of 1877, and that, as in the North-Western Provinces on that occasion, the well-to-do suffered equally with the poor On the occasion of my visit to Sangor I was assured that not a household in the city have escaped sickness. Of 45 clerks in the Deputy Commissioner's office, Il had been incapacitated for duty in August and 10 in September, for periods which gave an average of a week to each man. At one time sickness deprived the Executive Engineer of the services of seven out of his nine clerks. The police force suffered from an abnormal amount of sickness, 134 per cent of the strength being in hospital during August, and numbers being invalided at their homes from lack of hospital accommodation. Similar reports, though not in so much detail, have reached me from Mandla and Seon, and it may be accepted that a very large proportion of the abnormal mortality of August resulted from sickness which, so far as one can judge, was quite unconnected with the scarcity of food, and may have proceeded from the rise in the water level from the abnormal depth to which it had fallen through the long period of drought.

3. Extract from Famine Memorandum for September 1897 of the Commissioner of the Nerbudda Division.

We must turn to districts whose administrative officers are less chary of utterance in order to get the fuller information which we require. In the adjoining district of Chhindwara (and especially in the Sausar Tahsil) the conditions as to climate, etc., are somewhat similar to those of Betul. Mr. Ryves records that, finding the mortality in the Sausar Tahsil running up during September to an extent which made a death-rate of 123 per mille per annum probable, he personally visited the tahsil and examined the registers of the Sausar Station-house, and of the two outposts at Ranakona and Mohgaon, and endeavoured to ascertain the causes of the mortality by checking the deaths of one or two villages on the spot. He gives the results of his enquiry in the following words.—

"The population of the Police-posts inspected is 40,122, and the mortality reported during September 357, giving a death-rate of 1068 per 1,000 per annum, but in the Mohgaon Outpost Circle it was as high as 147 per cent. This mortality classified according to the ages of the deceased was as follows—

Age							No	of deaths
0-1	ears							53
1- 5	"			•	•			53
5—10	"	•		•	***	••		15
1015 1520	22		••	•	• •			18
20-30	22	• •	•••	•••	•••	•	•	26
30-40	,,					:		17
40-50	73	**	•	•	,		•••	38
5060 Over 60	"	•	•	•••		•••		31 99
	**							

"It will be observed that very nearly half the deaths occurred among infants under 1 year of age and among aged people over 60 years of age.

The causes of death were as follows .-

					210
Fever			••		236
Dysentery				•	34
Other Causes					81
Small-pox					2
Accident	•	••	•		2

"It will be noticed that diarrhosa and dysentery, which have been the most fertile causes of death in poor-houses and famine hospitals, play quite a minor part compared to malarial tever. 'Other causes' include lung affections of all descriptions not classed as fever

"The heaviest mortality in the Mohgaon Circle occurred in the large village of Pipla Narainwar Here 36 deaths occurred in a population of 3,288, giving a percentage of 130 per thousand per annum. I visited this village and checked the kotwa's register of deaths i found that the malguzar of this place had for some months been distributing grain to the poor, and that six deaths were those of wandering beggars, who had come to the village attracted by this fact. The deaths among residents had occurred among the well-to-do classes with as much frequency as among the poor. The death-roll, for instance, included two Marwaris, a well-to do Brahmin, a Sunar and five or six Telis, all of them persons in good circumstances, and further enquiries into the deaths among the lower classes failed to electione in which privation could be said to have been the determining cause. The malguzas, Ganpat Singh, had in fact taken measures which precluded that supposition. In other villages, namely, Singhpur, Koparwari, Ridhora, Jokiwara and Jam, I made similar enquiries and found that the deaths in these villages were equally divided between rich and poor.

"To turn to the Chhindwara Tahail, the Mokher outpost area, with a population 13,118, has a mortality of 189, giving a death-rate of 168 per thousand per annum. In this area Manza Ekulbehri headed the list with a population of 1,186 and a death-roil of 18 I visited this village, and made a house-to-house inspection, and found it to contain only one man showing signs of maciation, He was by no means in bad case, and had been in receipt of relief for more than a month. Nine people were in receipt of relief, of whom two had asked to have their names struck off as they were able to provide for themselves, and did not wish to be classed as "kangals" (i.e., destitute persons) longer than, was necessary. Examining the register of deaths, I found that I was due to dysentery, 7 to fever, and 10 to other causes, principally lung affections. Two possibly were famine cases, the deceased being mendicant musicians on their way from Nagpur to Chhindwars, who had died of fever. Otherwise mortality appeared to have been most prevalent among the Bhoyers, a thrifty set of cultivators, who in this village are all well-to-do. Two of the deceased were farm servants in regular employ, one a relative of the village carpenter, a well-to-do man, while a woman who gave birth to twins, both of whom died, helped to swell the total. The inhabitants assured me that none of the deceased had been in any straits with regard to food."

When it is remembered that the above death-rates occurred in the two tracts of this district were blessed above the others with a bumper harvest in the past year, I do not think that it is wrong to conclude that the present abnormal death-rate is due to causes with which privation has little to do directly. The active causes would appear to be malarial fever of a peculiarly fatal type, and dysentery induced by eating new grain.

LIST OF APPENDED STATEMENTS.

- No I .- Statement of areas and populations distressed.
- No II —Statement of number of persons on relief in each district in British India and in Native States.
- No III—STATEMENT OF MONTHLY DEATH-RATE FROM OCTOBER 1896 TO AUGUST 1897 IN EACH DISTRESSED DISTRICT IN BRITISH INDIA
- No IV —Statement of number of deaths in each month in each Province in British India
- No V.—Statement of relief units (of one day each) relieved in each Province and in Native States
- No VI —Statement of average monthly number of persons receiving relief in each Province and in Native States
- No VII -STATEMENT OF NET IMPORTS AND EXPORTS OF FOOD-GRAINS.
- No VIII -Statement showing extension of irrigation since 1881.

No. I.—Statement showing the Districts affected by the famine and the areas and populations returned as distressed on 31st May 1897.

	 			·		otsi may 1891,	,				
Province and Division.	District.	Ares of district.	Population of district.	Area returned as distreased.	Population of distressed area	Province and Division	District.	Ares of district.	Population of district.	Area returned as distressed,	Population of distremed area.
MADRAS		Sq m		Sq na		NORTH-WESTERN PROVINCES AND OUDH.		8q m		8q m.	
CIRCARS	Ganjam	8,369	1,897,000	2,678	908,000		ĺ				
	Vizagapatam	17,248	2,808.000	928	455,000	AGRA	Ağra Etawah	1,856	1,003,000	744	265,0
	Godavari	7,858	2,079,000	911	42,000	}	Total	1,694	727,000	271	68.0
	Total	33,469	8,779,000	(a) 4,517	1,405,000		10181	9,550	1,790 000	1,016	847,0
DECCAN .	Kurnool	7,514	918,000	2,700	940,000	ALLAHABAD .	a				
	Bellary	5,976	900,000	5,963	518,000	ALIMAHABAD .	Cawnpore Fatchpur	2,983 1,683	1,210,000	1,410	482,0
	Anantapur	4,888	709,000	4,517	584 000		Banda	3,061	705,000	8,061	225,0 705,0
	Cuddapah	8731	1.272,000	2,244	391,000		Humirpur	2,289	518,000	2,289	518,0
	Total	27,104	3 799,000	18,424	1,833,000		Allahabad	2,852	1,549,000	2,428	1,273,0
	GRAND TOTAL	60 576	10,578,000	(6) 17,841	3,238 000		Thansi	8,567	883,000	8,587	881,0
	1		1	} :			Jalann	1,477	896,000	1,477	306,6
BOMBAY	1	}	ļ	} .) ,		Total	17,262	5,755,000	14,848	4,257,0
ENTRAL DIVISION	Poons	5,349	1,068,000	2,987	488,000		`				
	Satara	4,825	1,225,000	4,095	1,162,000			l	Ì	{	{
	Khandesh	10,700	1,430,000	(c) 10,700	1,430,000	Benares	Mirzapur	5,223	1,161,000	4,307	714,0
	Sholapur	4,542	750,000	4,542	750,000		Jaunpur .	1,550	1,265,000	271	211.0
	Ahmednagar	6,645	888,000	8,645	888,009		Total	6 778	2,428,000	4,578	928,0
	Nasik Total	5,817	843 000	5,817	843,000			1	1		
	10021	37,878	6,204,000	34,766	5,561,000	GORAKHPUR	Gorakhpur	4,580	2,994,000	2,880	 1,727,0
OUTHERN DIVISION	Bijapur	5,627	798,000	5,827	798,000	GORANDON	Azamgarh	2,148	1,729,000	1,130	914.0
	Belgamn	4,674	1 013,000	1,642	353,000		Total	6,728	4,728,000	8,760	3 641 0
	Total	10,301	1,809 000	7,269	1.149.000	ļ					
	GRAND TOTAL	48,179	8,013,000	42,056	6,710,000			ļ	~~		1
	\					LUCKNOW	Lucknow	967	774,000	967	774,6
BENGAL	1		[1	1	·	Unso	1,738	953,000	1,798	953,0
ATNA	Shahabad	4,373	2,003,000	1,632	S82,000		Bae Bareli	1,752	1,087,000	1,752	1,087,0
	Saran .	2,658	2,467,000	1.512	1,416,000		Sitapur	2,256	1,075,000	1,520	703 0
	Champeran	3,531	1,860,000	3,531	1,860,000		Hardoi	2,325	L113.000	2,325	1 113,0
	Muzaffarpur	3,004	2711 000	1,851	1,680,000		Total	9,035	4,952,000	8,300	4,580,0
	Darbhanga	3,335	2,801,000	2,940	2,234 000		GRAND TOTAL .	48,348	19,586,000	(d) 32,296	12,753,0
	Total .	18,899	11,902,000	11,466	7,552,000		ŀ		j		1
									ì		
CHOTA NAGPUR	Palaman	4,912	598,000	4,912	598,000	PUNJAB		1	1		1
	Manbhum	4,147	1,193,000	3,373	991,000	DELHI	Hissar	5,217	778,000	8,768	544,0
	Total	9,059	1,789,000	8,285	1,587 000		Rohtak	1,797	590,000	1,467	198,0
RESIDENCY	Nadia .	2.798	1,644,000	927			Gurgson . Delhi	1,984	689,000 638,000	558 676	387,0
ICBS(DBNUT	Khulna	2 077	1,177,000	467	478,000 276 000		Karnal	2,660	688 000	2,128	499.0
	Murshidebad	3,144	1,250,000	187	96,000		Umballa	2,540	1,033,000	1,755	718.0
•	Total	7,014	4,071,000	1,561	849,000	_	Total	15,488	4,389,000	10,282	2,792,0
	1			(———	51,550	-				· · · ·	
SHAGALFUR	Bhagalpur	4,236	2,032,000	600	326,000	Twee	9	,	997 ***	p 2017	792.0
	Sonthal Parganas	5,470	1,754,000	1,321	377,000	JULLUNDUR	Ferozepore .	4,302	885,000	8,375	782,0
	Total	9,696	3,786,000	1,921	702,000		Total	4,302	888,000	3,375	/82,0
	ļ										
Orissa	Pari	2,473	945,000	365	102,000	RAWALPINDI	Guirat	2,051	760,000	542	155,0
	Total	2,473	945,000	365	102,000		Total	2,061	760,000	562	166,0
	GRAND TOTAL .	45,141	22,493 000	23,598	10,792,000		GRAND TOTAL	21,841	6,036,001	14,219	3,679,0

No. I.—Statement showing the Districts affected by the tamine and the areas and population returned as . distressed on 31st May 1897—continued.

				,				1			
Province and Division	District.	Area of distriot.	Population of district.	Area returned as distressed.	Population of distressed area	Province and Division	District.	Ares of district	Population of district.	Area returned as distressed	Population of distressed area
CENTRAL PROVINCES		Sq m.		8q m				Sq. m		Sq m.	
JUBBULPUR	Jubbulpur	3,948	748,000	2,858	498,000	BERARS .	Akola	2,659	575,000	2,669	575,000
	Saugor	4,007	592,000	4,007	592,000		Amraoti	2,759	655,000	3,759	655,0 00
	Damoh	2,831	325,000	2,000	200,000		Basim	3,956	398,000	2,956	398,000
	Mandla	6,056	839,000	5,056	339,000		Buldana	2,809	481,000	2,809	481,000
	Seoni	8,198	371,000	1,788	200,000		Ellichpur	2,617	316,000	1,643	47,000
	Total	19 040	2,375,000	15,682	1,829,000		Wun	3,911	471,000	3,911	471,000
							Total	17,711	2,896,000	16,787	2,637,000
Nagpur	Nagpur	5,832	758.000	524	243,000		Grand Total, British India	334,880	81,188,000	202,215	46,495 0 00
angure of the	Bhandara	3,968	742.000	2,350	430,000						
	Balaghat	3,164	883,000	1,500	230,000	RAJPUTANA	Bhartpur	1,982	640,000	1,325	440.001
	Chanda .	10,749	697 000	2,052	104,000	1	Bikanir	22,340	832,000	18,750	587,000
	Wardha	2,428	400,000	850	70,000		Dholpur	1,154	280,000	1,200	291,000
	Total	24,141	2,980 000	7,078	1,077,000		Jaisalmir	16,062	115,000	16,000	115,000
							Marwar	34,963	2,520,000	6,000	285,000
	1	i		1		•	Tonk	1,113	199,000	596	114,000
NERBUDDA	Hoshangabad	4,024	499,000	3,794	361,000		Total	77,516	4 586,000	44,070	1,782,000
	Narsingpur	1,916	387,000	1,918	367,000						
	Nimer	3,928	285,000	3,928	285,000						
	Chindwara	4,630	407,000	2,549	164,000	CENTRAL INDIA	Gwalior	10,227	1,508,000	4,200	771,000
	Betul	8,824	323,000	2,868	149,000		Baghelkand	25,846	3,482,000	12,000	1,778,000
	Total	18,892	1,912,000	15,055	1,326,000		Bundelkand	11,323	1,738 000	9,940	1,428,000
:	1				·		Total	47,396	6,728,000	26,140	3,977,000
CHHATTISGARH	Raipur .	11.734	1,584,000	4,027	730.000						
OMMINEGALII **	Bilaspur	8,341	1,184,000	8.341	1,164,000	HYDERABAD	Gulburgah	4,064	649,000	}	
	Sambalpur	4 948	796,000	228	62,000		Raichur	3,861	512,000	1	}
	Total	25.013	3,544 000	12.596	1.986,000		Birh	4,460	643,000	8,500	1,102,000
;	GRAND TOTAL	87,686	10,811,000	50,409	6,168,000		Naldrug	4,010	649,000		
!			10,021,000	- 00,200	0,100,000		Lingsagar .	4,907	620,000	J	
							Total	21,102	3 073 000	8,500	1,102,000
UPPER BURMA	Merktila . Yamethin	2,178 5,497	217,000 207,000	2,178 909	217,900 51,000		GRAND TOTAL, NATIVE STATES	146 014	14 387 000	78,710	6,861,000
	Myingyan	2,774	352,000	1,878	360 000		GRAND TOTAL, BRITISH INDIA				
	Total .	10,449	776,000	4 960	528 000		AND NATIVE STATES	480,344	95,575,000	280,925	53,356,000

oral in this area than in the affected area in the Decean d area in the Madras Presidency was returned at 26,078 square miles with a population of 5,574,080, owing to spread of distress in

No. II.—Statement of number of persons in receipt

										No	. II	-Sta	temen	t of	numt —	er oj	pers	10 118 1	n re	Ce
		28TH	Nov	MBE8	1896,	20	ND JANT	JARY 18	97	.50	TH JAN	UARY 1	397	27	re Feb	BUABY I	897		81	BB
Name of Province and District.	31st October 1896	Belief workers.	Dependanta.	Grabultons relief	Total.	Bellef workers.	Dependants.	Gratuatous relief	Total.	Belief workers.	Dependants,	Gratuitous relief	Total.	Bellef workers.	Dependants.	Gratuitous relief.	Total	Bellef workers.	Dependants.	
Madras.						_												 		Ť
Cuddapah		8,192		160	3,352	2,209		4,874	7,083	2,325		6,838	8,983	2,559	170	7,480	10,398	9,700	488	1
Kurnoul		7,059		211	7,270	8,538		88	3,626	3,620		268	8,883	9,904	580		10,484	21,627	4,461	1
Bellary		15,249		1,451	16,700	13,462		1,799	15,261	22,860		2,853	25,718	31,515	2,272	761	37,538	48,540	2,689	1
Anantapur		1,008		80	1,088	834		26	360	3,306		878	3,679	4,204	411		4,705	7,384	413	
Ganjam									İ	1		125	125	1,494		1,391	2,885	185		l
Vızagapatam				}								٠.		•	ļ	ļ		3,868	•	
Godavari		-			٠.	•						١.	ļ	1	,		i			Ì
Kistna				<u> </u>						<u> </u>	<u> </u>									L
TOTAL (ŕ	28,508		1,902	28,410	19,548	<u> </u>	6,78"	26,330	32,111		10,252	42,368	52,766	8,489	9,680	65,835	89,254	5,000	╁
Bombay																				
Bijapur	/			1]	44,542	14,090	2,274	60,915	58,282	18,225	4,982	81,439	55,678	19,907	8,162	88,742	51,662	16,079	1
Sholapur						40,257	19,138	1,721	61,111	55,865	27,617	8,729	87,211	70,141	34,906	6,385	111,482	86,630	40,040	1
Ahmednagar		2,382			2,382	27,546	13,008	4	38,558	31,870	1A 983	27	48,280	58,603	30,408	1,829	90,840	65,077	80,763	1
Poons.				1		13,064	6,865	2,811	22,740	17,074	7,958	2,278	27,305	15,514	5,084	3,644	24,242	11,325	2,749	
Nasik		5,177			5,177	14,553	7,318	2	21,873	19,290	11,808	57	31,155	22,861	11,686	115	34 662	28,809	11,091	ı
Satara		1,677			1,677	19,042	2,574	1	21,617	18,206	5,154	6	23,366	25,196	4,442	14	29,652	31,568	4,609	ı
Khandesh					1	6,827	2,933		9,760	16,417	6,047	}	22,464	29,130	10,125	ļ	88,255	31,465	10,478	
Belgaum	ŀ	· '				1,999	680	103	2,783	1,915	676	253	3,748	8,051	884	477	4,412	5,848	1 466	1
Dharwar		1,178			1,173					1,733			1,782		ŀ	22	22	458		١
Ratnagiri		ŀ		l					Ì						İ	••				١
Kolaba		<u></u>									<u></u>			<u> • </u>		<u> </u>	<u> </u>			_
TOTAL		10,409			10,409	167,830	64,610	6,916	289,356	220,651	93,767	11,277	326,695	274,169	117,442	20,648	412,069	810,727	117,207	+
Bengal.										<u>.</u>										
Champaran	1	1,937		ļ	1,937	48,684		2,424	51,108	97,149		5,808	102,957	180,804	1	89,447	170,251	89,360	6,612	1
Shahabad	1	1,002			1,002	1,145		2422	1,146	2,274		0,000	2,274	1.225		4,740	5,966	10,668	1,648	i.
Nadia		445	•	1	445	2,385			2,385	6,060		770	6,830	10,578		""	10,678	13,220	9,376	4
Patna]					811			311	587		86	623			ிக	61	!		
Khulna		[:		ſ	1	111	.		ın	147		91	168	1,881			1,881	2,308		1
Saran					l	3,655		1,770	5,425	13,811		12,070	25,881	14,792		17,304	52,096	14,302		
Darbhanga		i			1	28,587	١.		28,567	135,644		55,283	190,927	80,015	2,566	37,512	140,095	109,570	10,863	
Muzaffarpur		ļ	l	1		2,358			2,358	6,911		1,708	8,614	16,656	120	11,099	27,876	84,445	2,029	
Rajshahi		1	1	1		1			ľ	536		1	536	585	1		585	591		1
Bhagalpur]	,]	}]		1					7,790	870		8,160	8,597	542	
Palamau	1	i	l		[Į	-			1		3,949		253	4,302	4,020	•	
Manbhum		٠ ا			ļ		'		1	١.		•	1	3,492		4,000	7,492	8,901		
Pubna Warahidahad		,]	1		1	1		٠.		68 730			58 730	323		1
Murshidabad Hazaribagh.					1					l		1		780		١ .	/80	3,988		1
Puri	Ì	ŀ	l	l		1		1	ì			1	'					2,062 4,085	31	1
Sontal Par-																	•	2,162	188	1
ganas. Bankura			1	1			'											•		
Singhbhum					! i															-
Lohardaga															•			-		
Jessore	1	ľ	1	l	i											•		~		
	1	1																		
Dinappur		3,384	<u> </u> .		3,384	87,216		4,194		268,119		75,691	338,810	272,580	3,056	134,416	410,002		25,064	-

relief at the end of each month

		lst M	Y 1897			29TH N	LAY 1897			3RD J	DLY 1897			31st J	OLY 189	1		28TH AT	JOUST 1	397
-	Relief workers.	Dependants.	Gratuitous reliaf	Total.	Belief workers.	Dependants.	Gratuitous relief	Total	Relief workers.	Dependants.	Gratuitous relief	Totel.	Relief workers	Dependanta,	Gratuitous relief	Total	Rollef workers	Dependents	Gratutous relief.	Total.
.,,				1		1						-								
26	82,19R	1,211	9,856	43,295	47,371	1,575	16,152	65,098	82,070	2,597	25,628	110,295	99,336	2,993	22,385	124,714	44,730	1,971	26,696	73,397
72	56,967	2,838	3,765	63,570	87,525	4,568	11,190	103,283	120,430	4,528	40 190	165,148	152,566	₹,360	61,099	219,025	126,543	5,498	49,658	181,699
98	86 622	4,633	3,886	75,161	94,348	4,811	10,731	109 890	114,571	6,259	20,766	141,596	155,270	6,403	27,308	188,981	149,741	6,580	28,966	185,287
89	18 278	893	988	20,159	42,417	1,823	7,577	51,817	56,512	2,889	9,808	89,208	63,375	3,703	10,822	77,900	61,500	3,589	10,986	76 075
05 96	5,087 11,787	671	10,025 853	16,262 13,293	17,523	970	31,253 1,325	48,776 17,049	36,062 23,351	1 905	54,867	90,998 42,862	47,059 19,416	224 1,21!	96,533 31,031	143,816	9,305 12,362	65 548	32,744 14,892	42,114 27,797
<i>D</i> C	11,704	0/1	693	13,285	14,754 500	870	1,320	500	20,501	1.885	17,626	42,002	15,416	1,51:	728	51,658 883	150	948	6,001	6,157
									:		•	,			,		640		,,,,,	640
55	191 400	10 266	29,975	231,650	304,438	13,747	78,228	396,413	432,996	18,224	168,885	620,105	597 177	19,894	249,906	806,977	404,971	18,246	169,943	593,160
-																				
								ĺ												
99	58,804	15,913	9,687	79,234	45,868	8,975	10,974	63,815	57,753	9,644	13,787	81,184	92,136	12,329	13,397	117,856	118,806	18,428	15,564	152,798
10 11	94,068 55,498	31,600 11,676	8,271 5,175	131 939 72 287	83 008 44,379	25,371 11,757	8 152 6,194	1 <u>7</u> 6,531 62,330	70,852 39 444	22,308 12,673	8,935 9,417	102,095 61,534	80,846 59 809	26,470 16,524	11,118 15,017	91,350	81,293 49,421	24,680 15,243	13,432 20,349	119,405 85,013
29	19 963	2 7 5 9	5,787	28,509	22,850	3,269	7,802	33,491	9,181	2,178	10,472	21,831	10,917	2,571	11,549	25,037	13,387	3 239	14,849	31,475
18	19,734	6,444	190	28,417	17,901	7,587	629	26,117	10,498	4,727	1,635	16,860	6,836	2,780	1,588	11,204	3,661	1,425	1,409	6,495
11	£0 0 3 9	2 595	87	23,321	9,478	1,818	195	11,491	9,217	1,526	658	11,401	10,643	1,423	2,158	14,234	7,028	459	4,519	12,006
18	23,387	5,887		28,274	17,641	5,596		23,177	8,216	2,614		10,830	8,984	2,734		11 718	2,012	897	525	3,434
2	9 606 278	2439	517	12,556	9,834	2,579	280	12,983	7,968	1,236	820	10,024	13,299	1,967	770	16,036	17,036	2,531	931	20,488
55	115		893	1,166 115	612 262		997	1,609 262	365		1,119	1,484	2,115		1,006	3,121	3,441 155		1,066	4,507 155
					298	ŀ		298			}						100			LID.
49	203 725	79,47	90,616	403,818	261,619	64,892	35,528	852,034	213,494	56,996	46,343	817.243	285,585	66,792	56,603	409,980	296,240	66,903	72,634	435,776
					,															
35	72,027	6041	61,011	139,079	104,727	8,433	79,815	192,975	52,708	3,642	85,321	141,671	14,808	961	53,519	69,288	12,489	138	28,340	40,962
38 15	7,508 19,681	1,358 9,885	21,937 20,085	90,858 49,131	9,322	2,232 10,696	21,914 60,100	33,488 91,327	1,797 24,503	361	19 161	21,319 92,928	14,337		23,861 50,362	23,861	807		17,518	17,518
30		.,000	121	121	wodal1	20,000	- COLLEGE	22,021	arzyiU.1		68,4 <i>2</i> 6 188	188	12,001	}	237	64 699 2 257	331		7,339 1,5 2 8	7,670
18	3 764		5,360	9,124	4,809		6,379	11,188	1,018		10,434	11,452	285		7,365	7,650			6,086	8,086
10	34,674	103	48,878	73,649	34,177	1,890	57,026	83,093	13,252	1,293	47,705	62,250	18,152	1,618	57,968	77,733	11,178	284	40,349	51,811
10	181,868	9,902	66,597	207,262	147,428	9,714	78,662	35,799	107,720	7,338	94,759	211,815	57,520	3,966	95,895	157,381	14,206	321	76,797	91,324
58)1	54,245 781	4,560	55,141	113,952 781	58,841	3,748	59,201	121,790 360	37,135	1,275	71,974	110,384	36,472	412	64,602	101,486	19,775	651	47,094	67,520
14	20,959	1,087	3,815	24,861	360 7,287		2,750	10,087	405 718		9,098	9,816	571	•	6,216	571 6,216	'	1		
ıñ.	2,849		1 989	4,828	3,023		2,146	5,168	1,726	1	2,002	3,728	1,586		2,399	3,085	1,064		2 169	3,433
85	9,899		5,982	9,831	3,977		11,987	15,964	7,524		6,781	14,305	9,1.23		7,436	10,659	15,501		8,904	24,405
33	40.3		1	492	679		15	694	1,522		1,883	3,405	447		52	499	37		16	53
83 97	8 517 8,408		<i>≟</i> ,160	3,517 5,568	3,808		4,732 4,547	8,540	2,281 2,586		4,604	6,885	5,013			5,013	406	1		406
18	3,178	47	182	8,407	2,797 3,618	194	4,547 224	7,344 4 086	3,727		3,945 1,482	6,531 5,209	951 2,974	454	3,220 1,265	4,625	514	}	1,401	1,915
31	2,180	110	201	3,511	1,680	49	902	2,691	2,413		3,980	6 403	1,305	17	4,350	4,839 5,672	2,052		1,197	3,249
					5,347		8,521	8,868	1,355		8,986	10,341	1,167	253	8,489	9,909	3,534		10,195	13,529
									82			82		1			}			
										1]		585		1,255	1,840	1,008		3,207	1,215
										1			309			309	38	}		38
3	321 roa	31,998	202,424	678,972	402,846	36,978	394,125	od 3 447	262 471	13010	449 790	710 11¢	117	8 074	388,486	117 561,869	54 81,987	1,389	253,400	335,776
i				1					311	10,010	*********	*********	100,220	0,074	200,900	001,000	91,991	1,570	305,900	335,T/t

No. II.—Statement of number of persons in receip.

											N	0. 11	.—St	ateme	nt of	nun	ver e	of per	`30ns	tu r	ex cij.
		Γ	2878	Nov	EMBRE	1890.	92	D JAN	JARY 18	97	80	te Jan	UARY I	197	27:	гн Рвв	RUARY	1807		81	14 41
Number	Name of Province and District	Ret October 1896.	Bellet workers.	Dependants.	Gratuitons relief	Total.	Relief workers.	Dependanta.	Gratuitons relief	Total.	Relief workers.	Dependenta	Oratuitous relief	Total	Relief workers.	Dependants.	Gratuitous relief	Total	Bellet wurkers.	Dependants.	And destablished and the
	North-Western Provinces and Oudh,																		{		
1	Agra.		2,168	}	91	2,254	4,897		247	5,144	17,525	3,956	623	22,304	18,541	7,080	6,788	32,354	7,789	}	
2	Etawah .				ļ		4,848		779	8,625	10,114	2,498	2,394	15,001	19,701	8,678	2,980	20,889	750		24
8	Bands .	4,588	91,168	9,778	7,8 65	48,304	67,140	18,192	12,780	98,112	109,775	25,707	17,381	152,868	142,206	29,303	28,430	201,088	131,816	28,728	80,6
4	Cawnpore .	١.		•	1,088	1,063	11,945	3,910	8,607	18,462	40,712	9,206	18,949	68 867	81,739	17,739	19,847	119,825	4,767	1.114	10.
5	Hamirpur .	8,593	3,585	1,890	4,718	10,171	15,056	3,592	6,240	24,988	38,400	11,219	10,382	60,001	88,532	8,323	15,627	60,482	62,401	18,087	18.
8	Allahabad .		10,095	455	3,728	14,278	59,184	28,601	12,129	94,914	138,04 0	26,888	20,423	183,351	119,729	82,031	29,034	180,794	114,928	29,370	38,
7	Ihand	1,785	7,084	1,624	1,217	9,905	11,329	2,075	3,116	16,520	84,436	6,551	6,019	47,006	47,484	10,455	9,447	67,860	48,887	9,870	14.
3	Jalaun .	7,718	10,281	983	2,497	13,761	17,704	4,683	4,364	26,781	48,555	10,623	92,516	80,694	72,180	19,682	10,259	102,121	54,212	15,080	74
Ð	Jaunpur .	5,185	6,928	2,068	149	9,140	14,825	3,919	589	19,333	31,158	10,011	1,882	48,051	44,745	15,158	11,370	71,278	8,068	1,088	12
D	Gorskhpur.				714	714	2,024		8,117	5,141	13,181	1,764	7,199	22,138	32,872	5,606	8,164	44,649	96,579	8,868	27
ı	Lucknow .	460	372	}	1,116	1,498	14,251	1,658	10,521	26,430	84,215	7,298	14,795	56,308	60,421	17,013	21,047	107,481	90,806	1,530	22
2,	Unso .						8,028	981	1,378	10,887	28,604	8,169	5,887	40,440	87,114	11,808	11,174	8,091	5,670	. `	10
.3	Rae Bareli .	7,012	11,661	2,308	1,388	15,352	21,861	6,930	1,568	29,849	55,935	14,587	8,622	79,144	61,696	17,057	12,106	90,858	14,765	70	19
14	Sitepur	-	4,086	121	250	4,457	18,190	2,617	507	21,814	31,888	5,503	6,717	44,108	38,839	7,698	21,170	87,707		i	1
15	Hardoi	5,591	7,460	1,781	1,938	11,179	20,425	8,527	11,972	38,924	65,483	17,618	93,474	178,575	93,552	25,315	25,947	144,814	42,940	10,678	7
18	Bara Banki		2,657	[119	2,778	10,763		811	11,574	21,081	2,928	8,009	27,078	14,859	2,277	4,463	21,590	508	ale la la la la la la la la la la la la la	
1,7	Mirsapur				}		1,400		795	2,195	12,201	8,000	2,781	18,072	44,627	11,542	9,441	65,610	80,161	8,77	18
18	Azamgarh .		869	Ì		369	9,827		1,088	10,710	8,906		5,241	9,147	7,201	1,268	7,795	16,854	2,688		
19	Fatebpur .						199		938	1,137	3,853		7,000	10,858	18,718	5,044	10,006	33,768	4,994	619	
20	Dehra Dun! .			1					,		850			260	360			360	475	,	
21	Bijnor .						251		453	704	2,419		788	3,187	2,728		1,428	4,161		ì	
22	Moradabad			•			107		184	241	2,426		43.0	2,830	5,481		1,657	7,038	62	į	
28	Barelly .				-		518		106	624	6,238		230	5,468	3,565		2,115	5,680			
21	Muttra .			}	}		3,399		158	3,555	8,429		1,082	9,481	92,451		4,562	27,018	340	,	
26	Etah	٠			-		1,000		ă # ∂	1,596	707	•	1,783	2,490	960		1,854	2,794	"	**	
26	Mainpuri .		. '	1			77		187	244	37	}	700	797	133		885	717		4	
27	Farukhabad				~		1,174		807	1,981	1,867		2,242	4,109	546		10,904	11,450		Î	
28	Budaun	-					688		106	774	2,071		142	2,313	980		294	1,254	62		
29	Shahjahanpur					}	753		1,556 396	2,309 396	2,436 8,481		1,885 418	4,321 8,899	3,317 6,563		2,694 1,220	8,011 7,788	296		
30 31	Pilibhit . Kheri .		.,	7.			230	}	19	249	2,614		190	2,804	830		478	1,308	120 342		
32	Sultanpur						2,661 3,632		1,238 428	8,899 4,060	9,774 2,233		2,394 8,300	12,068 8,598	12,748 15,253		5,857	16,948 20,910	177	.	
83 34	Partabgarh. Fyzabad			1		-	1,945		1,120	3,123	8,942		4,284	13,226	7,274		4,523	11,795	290	1	
35	Benares			.			818	}	604	922	866		950 2,272	1,616 9,561	243 4,801		561 8,203	8,004 8,004	200	.	
36 37	Gonda . Basti	1:	155] .	331	486	2,163 515		1,480	3,643 1,185	7,399 2,667		2,523	5,179	4,708		1,770	6,478	1,487		
-41	1	40,68		20,99		145,697		77,845	86,637	J	806,695	165,611	262,BLB	1,254,108	1,089,858	248,022	309,651	1.847.529	587,312	шл	22
														,						•	

il	ref a	t the	end	ot eac	h mo	nth—	-conti	nued.												
\int		18T M.	¥ 1897			29тн М	A¥ 1897			3RD JU	LY 1897			alst Ju	LY 1897		2	STH AU	GUST 18	97
	Rehef workers	Dependants	Gratuitous relisi	Total.	Relief workers.	Dependants	Gratuitous relief	Total	Relief workers	Dependants.	Gratuitous relief	Total.	Relief workers.	Dependants.	Gratuitous rehef	Total.	Relief workers	Dependants.	Gratuitous relief.	Total
17 389 277 466	15,090 1,776 159,789 1,370 76,858	25,835 15 14,925	7,492 2,893 35,129 8,696 22,235	23,520 4,669 220,753 10,081 114,013	20,114 1,698 226,516 2,261 89,857	30,796 413 15,338	6,348 3,536 40,164 9,659 22,362	26,597 5,234 297,476 12,323 127,557	23,913 972 139,056 508 6,086	22,091 1,849	8,110 3,511 54,251 8,947 21,636	32,023 4,483 215,398 9,450 29,573	7,983 30 29,190 762	5,408 224	7,208 3,100 75,930 10,456 21,110	15,191 8,130 110,528 10,456 22,006	5,386 6,046	1,520	6,916 878 73,226 4,073	10;3 0 2 878 80,792 4,073
87	189,462 45,142	39,371 9,381	45,884 17,980	274,717 72,503	227,86 5 6 5,158	51,050 12,913	50,809 19,360	329,724 97,421	29,942 6,367	8,217 877	60,436 22,140	98,495 29,384	13,755 1,272	4,872 366	59 764 22,541	77,591 24,170	5,614 596	1,728 166	37,133 19,716	44,475 20,478
568 379	84,925 13,899	25,048	28,121 16,169	138,694 30,048	83,847 20,432	21,595 2,534	18,246 20,296	123,688 43,2 6 2	6 720 2,649	2,013	21 150 16,769	29,883 19,418	2,881	905	31,027 22,216	31,813 22,216	£		19,808 23,392	19,606 23,392
1972	16,491 24,215	1,012	11,514 24 215	28 005	15,055 27,135	F 400	12,408	27,468	11,597	2 Oak	17,462	29,059	3,943	2.000	12,486	16,579	. ,	ové.	9,545	9,545
752	8,844	554	15,545	49,442 24,943	19,016	5,499 4,208	23,876 16,065	56,510 39,289	9,342	5,265 3,033	25,280 16,558	57,755 28,931	16,075 303	3,928 124	25,193 19,559	45,194 19,986	907	215	15,158 17,812	16,280 17,813
645 687	15,317 366	726	12,230 3,995	28,273 4,361	17,969 572	3,829 129	13,419 3,627	35,307 4,328	9,837	2,674	15,806 5,502	28,317 5,744	1,375	488	16,662 4,425	18,525 4,425	687	367	13,303 3,374	14,357 3,374
548	83,423	21,241	32,423	137,086	88,178	22,074	40,598	150,850	53,460	13,960	46,072	113,492	2,768	802	48,133	51,703	1,772	493	43,357	45,622
,537	868	•	728	1,594	1,022		1,033	2,055			1,299	,299			1,441	1,441	-	•	1,459	1,459
,257	31,844	6,047	17,580	55,471	29,675	8,240	20,157	58,072	5,700	1,697	20,626	28,023	1,991	615	12,616	15,222	674	119	11,327	12,120
,911 ,177	7,002 5,135	1,384	9,387 7,928	10,589	12,320 6,531	1,545	5,569 8,710	18,075	3,114 2,127	660	17,257 8,690	20,371	558 382	176	9,280	15,586 9,838			10,409 8,190	10,409
475				11,110	••	1,010	0,110	10,100	2,151	000	6,000	11,477	302	7.10	8,230	8,000		•	a,1#0	8,190
Ļ26 8			718	718	108		862	970	846		1,282	2,128			1,608	1,608			1,391	1,391
1,767			2,657	2,857	884		2,574	3,238	2,362		2,894	5,256			3,597	3,597			1,221	1,221
1,306			2,008	2,008	1,211		1,913	3,124	1,718		1,593	3,306	938		1,899	2,837			851	851
1,818	1,441		9,569	5,010	8,338		8,190	6,523	8,119	,	4,651	7,770			3,972	9,972			1,689	1,689
3,280			596	596	5		1,484	1,489			2,183	2,183			2,052	2,052			776	775
, 36 °	٠.		33	33			597	597			470	470			686	686	-		2,414	2,414
L,570	54		2,839	2,883	85	•	2,465	2,550	38		3,608	3,646			2,891	2,891 [;]			1,386	1,366
1,029			1,435	1,425	283		1,135	1,418			175	176	٠,		397	397		-1	284	284
8,106 2,598	303 / 875	••	3,828 2,665	4,131	588		3,158	3,691	231	•	4,291	4,522	.,		5,604	5,604		,	2,749	2,749
180	810	,	2,005	3,040	1,047 706		1,514	2,561 829	1,605 1,253		3,534 281	3,139 1,534	261		3,205 945	3,466 945		٠	2,072 385	2,072 385
872 2,074	1,279 897	•	1,158	3,481	8,018		1,448	4,466	289		2,394	2,663			2,368	2,363			1,498	1,488
2,014 2,564	30		2,089 2,802	2,486 2,332	3,069		3,363 2,289	6,432 2,289	318		3,772 4,700	4,090 4,700			4,082 3,375	4,082 1 3,375		٠	2,468 501	2,468 501
8,352			10,498	10,498	1,479		12,268	19,747			12,033	12,033			11,123	, 11,129		•	17,163	17,163
1,416 8.642	435 2 279		366 1,027	701 3,306	1,614 1,586		304 1,661	1,918 3,247	170		568 2,110	568			2,578	2,578			2,456	2,456
919,01		145,588		1,287,195		180 484				62,336	442,039	2,280 855,088	84,462	17 406	1,827 470,334	1,827 572,202	19,682	4,608	568 373,417	568 397,707
inat T	-41-> 0>			30 000												<u>'</u> ــــــــــــــــــــــــــــــــــــ	1 1			

| Inex | Indian Charitable | 1,000 | 28,000 | 28,000 | 28,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20

No. II .- Statement of number of persons in rec

2												140.	11.	-oun	ment	oj ni	emoet	oj p	rson.	5 892 P	5C
			25TH	NOVE	MBER	1896.	23	D JANG	JARY 18	97	30	e Jan	JARY 18	197	277	H PEB	WARY 1	897		39 1	9 4
Number	Name of Province and District,	31st October 1896.	Relief workers.	Dependanta	Gratuitous relief.	Total.	Belief workers.	Dependants.	Gratuitous relief	Total	Belief workers.	Dependanta	Gratuitons relief.	Total.	Belief workers.	Dependants.	Gratuitons relief.	Total	Bellef workers	Dependents.	The state of the s
	Punjab.								`												
1	Histor .	.,				\ '	18,004	1		18,004	28,494		5,715	29,209	87,958	9,842	2,028	50,028	178,08	12.044	o l
2	Rohtak .	"		1			819			819	3,614		2,185	6,799	2,714	709	2,092	6,416	4,849	1,400	8
8	Gurgaon				i !	.			(1,552		37	1,589	2,402		81	2,483	1,070	38	}
4	Delhi			ľ	l		152		Ì	152	8,044		696	3,740	2,603		959	8,582	1,024	118	
5	Karnal	570	. 1				2,950		ĺ	2,960	2,361		214	2,465	1,991	181	4	2,166	5,840	3,321	Ţ
8	Umbalia .	[69			69	1,167	i	l	L167	1,003			1,003	3,726	304	618	4,648	1,847	184	
7	Ferozepur		٠,		ĺ.	- 1	2,833			3,833	2,080		228	2,308	2,005	240		2,245	1 496	. 1	
8	Multan	[]					107		ł	107	309		٠.	302	126	9		135	109		- 1
9 (Lahore				1		600	,		600	2,168		•	2,168	2,178	}	•	2,173	2,001	· * }	1
10	Sialkot						284		l	284	270			270		0.500	30 000	40.000	10.100	736	
ш	Gujrat	5,332	10,850			10,850	22,491	8,027	ł	30,518	82,780		16,177	47,957	28,136	8,500	18,000	49,896	12.168	1,000	
18	Gujranwala	•	•	l	ł		297		}	297	317		'	217	1	١.	}	48)	- 3	
13	Rawalpindi			İ	1	•	226			326	112	•	١.,	112	48 187		77	2714	70		
14	Ludhiana		-:-	<u> </u>	ŀ∸	10070	118	8,027	ļ	116	78,107		24,152	126 97,259	83,314	14,765	26,659	123,738	89,227	17,91	
	TOTAL	5,902	10,919	<u> </u>		10,919	45,046	6,021	<u> </u>	59,078	101,01		22,102	07,200	00,013	12,100					
- 1	Control		1		1										ļ			}		- 1	
	Central Provinces.	1 1			ļ				ļ					} ')		}				. 1
1	Sangor,				1			١ .	ļ	27,619	26,969		9,616	36,585	23,904	3,672	9,754	87,880	89,715	8,014	13
2	Damoh		,				}	•	}	12,372	18,923		1,906	20,828	14,571	2,032	1,447	18,040	21,248	8,114	
3	Inppulpare			}	}		}	,	}	86,077	70,178	•	13,727	88,905	70,108	6,262	10,020	86,385	65,142	9,190 809,8	7
4	Mandla		١.,		٠.				j	12,788	14,260	•	882	15,142	20,689		4,788	35,427	19,780 8,419	1,488	
5	Smoni]						•	}	8,587	4,142		8,401	7,548	5,454	1,050	2,008	8,516 20,438	85,001	7,842	
6	Narsinghpur		1			٠ ا	•		}	8,730	18,043	2,179	4,056	24,278	13,981	3,444	3,018 6,926	27,136	88,100	7,986	
7	Hoshangabad					.				23,814	30,907		8,038	36,940	20,209	79	114	885	229	αĎ	
8	Nimar .		•]				-			953	558	1.35 873	67 688	750 12,307	14,100	1,636	864	16,600	7,898	842	
9	Betul					i	•		ļ	2,085	10,747	0/2	1,848	6,798	5,989	1,419	1,398	6,801	7 159	1,488	1
10	Chindwara.				'	"		•	ĺ	3,388	4,950 1,312		830	2,142	1,278	270	958	2,500	5,082	1,012	1
11	Nagpur ,	1	•	' ;	[[]		•		4,208 640	2,643	250	12	2,905	2,690	392		8,082			
13	Chanda.		~ •						İ	7,683	9,118	938	512	10,566	15,094	8,420	1,826	19,840	10,371	2,536	2
14	Bhandara Balachat	.]	"			'				8,000	5,219		1,682	6,881	10,348	8,000	1,466	14,814	26,244	6,323	إبا
15	Balaghat Baipur	1	**			. 1	"		1	10,660	7,658		1,377	9,035	87,757		6,178	45,930	49,858	11,046	ž 2
16	Bilaspur .				1			٠.	1	700	6,244	108	1,340	7,687	12,012	1,785	4,257	18,084	20,955	1,507	8
17	Sambalpur,	4													.					′	1
18	Wardha	, 1								25	. 1			}	}						
~ }	TOTAL	<u> </u>					·			167,189	281,871	4,465	47,961	284,287	268,321	28,440	64,502	351,288	345,685	60,099	06
-		\vdash	$\neg \neg$												[1	,	
	Burma.				1	}]		}	}								i			
1	Meiktila }					(14,691		2,447	17,138	17,277		3,185	20,412	13,642		2,290	15,989	6,850 12,829	,	
2	Myingyan }	2,998	20,337		l	20,337	10,038		2,843	12,679	9,689		2,906	12,496	8,076		1,785 236	9,880	12,829	,	1
3	Yamethin)				L_	(٠٠.		817	317			829	323	-		4,411	28,128	19,659		
ŀ	TOTAL	2,998	20,337	\cdot	Ŀ	20,337	24,727	:	5,407	90,134	26,966	<u> </u>	6,264	83,250	21,717		7,411	20,125	10,000		H
1		•					•			1	[!		1	R.
	Berar.					1			1						l, l				9,318	Ź	
1	Akola .		•	- 1		•									!			ոու	2,105		ì
3	Basim .			· '	1	}			}	,]] [)				2,507	Đ.	9
8	Ellichpur					•		•	١.	1 .					١. ا		.			•	5
4	Amraoti .		1							"				.	.			. !	1,702		1
5	Buldana .		•] ' '	•		. ']	"		[]							1
6	Wun	<u> </u>	 	 	 		 -		 -	 -		· ·					•	щи	15,827	i	1
	TOTAL]		"	Ι.	Ι''		•	ļ .			, 1								أجسا	4

* relief at the end of each month-concluded.

reli	ef at	the er	nd of	each t	month	co	nclud	ed.		i.										
- _N •		19T MA	¥ 1897			29TH M	AY 1897			SRD JU	LY 1897			Sier Ju	ILY 1897			28TH AU	GUST 18	97.
TOBEL Z	Relief workers	Dependente	Gratuitous relief.	Total.	Relief workers.	Dependants.	Gratuitous relief	Total	Relief workers.	Dependanta.	Gratuitous relief	Total	Relief workers,	Dependants.	Gratuitons relief	Total,	Rehef workers	Dependants.	Gratutous relief	Total
7,821	45,548	10,792	7,892	64,232	47,448	10,457	9,342	67,247	63 447	5,611	7,783	76,841	19,266	2,792	7,757	29,815	6,838	1,515	7,010	15,369
8,347	5,054	1,345	2,141	8,538	6,678	1,540	2,193	10,431	6,730	1,493	2,135	10,358	45	••	2,118	2,163			61	61
1,844	448 958	18 87	56 536	517 1,581	767	206	839	1,812	1,070	458	945	2,473			691	691			651	651
10,774	3,039	1,285	1,548	5,872	3,886	2,273	1,358	7,517	3,676	1,150	1,370	6,196	1,300		882	2,182	1,116		209	1,325
2,197	464	722	203	1,389	2,131		1,780	8,911	480		634	1,094			550	550		ļ	147	147
1,496	73 1			73	360			360	535			535	509			509	٠.			
102 2,001	91	•		91											-					
1. 1 6, 129	5,041		539	5,580	3,807	789	469	5,065												
<u> </u>				68	45			45	143			143								
, 99	66 23		9	33	40			1 0	142			130								
02,474	60,800	14,247	12,924	87,971	65,122	15,265	15,981	96,368	78,061	8,712	12,867	97 640	21,120	2,792	11,998	35,910	7,954	1,515	8,078	17,547
47,956	31,456	3,361	13,534	48,351	38,162	4,379	15,772	58,313	18,776	1,886	14,882	85,544	23,251	2,485	12,057	37,793	11,884	257	16,308	28,149
91,626 96,752	30,432 64,362	4,652 8,772	8,658 39,042	43,742 112,176	36,060 53,152	5,864 8,341	12,099 22,167	54,023 83,660	32,651 34,667	5,348 2,770	13,108 22,494	51,107 49,931	32,560 34,004	5,809 4,065	13,939 38,934	52,408 77,003	10,758 19,407	2,027 3,712	15,582 45,070	28,345 68,189
94,376	23,021	5,234	2,388	30,643	24,248	5,607	3,119	32,969	11,838	1,810	3,746	17 394	11,107	2,251	4,453	17,811	12,388	3,107	16,527	32,022
10,521	11,717	2,438	884	15 029	12,372	1,768	2,601	16,741	6,597	793	3,168	10,558	4,974	1,047	5,270	11,291	2,986	1,212	12,999	17,197
45,850	18,847	2,768	2,534	24,149	42,154	6,643	8,355	52,152	14,390	2,131	5,835	22,356	19,730	3,108	9,349	32,177	19,790	2,725	14,400	36,915
46,940 480	44,079 183	8,349 87	868 809	53,296 479	55 988 342	9,304 32	856 51.2	66,148 888	23,273 64	4,788 11	3,909 838	31,970 913	34,521 688	6,603 105	5,600 1,040	46,783 1,833	29,563 841	5,490 228	7,787 1,401	42,840 2,470
8,800	8,987	1,685	1,530	12,152	15,841	2,920	1,880	20,141	7,299	509	2,258	10,086	9,390	671	3,149	13,110	8,499		4,983	13,484
10,652	10,807	1,603	1,910	14,820	12,866	1,961	2,054	16,881	12,040	1,541	2,425	16,006	14,644	1,405	2,982	19,031	18,106	1,507	4,109	18 722
7,118	8,874	2,401	945	12,220 482	14,052 128	8,344	749	18 045 128	12,640	2,823	2,527	17,989	13,197	2,998	4,558	20,753	6,951	805	8,522 1,530	16,278
14,764	482 13,568	2,288	2,302	18,156	25,172	4,710	1,844	31,726	16,326	2,523	6,245	25,094	95 19,698	3,160	1,176 8,668	1,271 81,526	13,288	3 609	8 837	1,530 24,744
35 442	86 601	10,185	6,344	53,080	41,310	10,873	8,677	60,860	28,384	6,032	10,061	44,487	36,690	6,258	11,1	54,056	25,635	3,109	12,362	41 106
63 876	65 533	17,180	5,415	88,128	81,266	18,102	13,472	111,840	39,508	6,722	15,179	81,409	40,810	7,999	14,20	62,815	34,220	6,689	22,055	63,864
81,030	81,40 1,683	5,015	13,679 379	49,948 2,003	34,607 1 009	5,818	24,115 848	64,540 1,352	33,956 107	8,994 86	44,021	81,971 143	49,560 2,318	4,935 194	63,77 \$	118,269 2,412	40,808 800	4,149	80,856 71	125,813 871
c	9,509	46		8,555	7,076	30	"	7,115	3,017	37		3,054	2,017	101		2,521	597	254	505	1,356
175 644	405,290	75,952	100,721	581,963	495,300	89,605	112,615	697,530	285,533	43,748	150,696	479,972	348,944	53,150	200,769	603,863	251,219	37,880	274,784	563,883
سيعس ي									ĺ											
7,761	\$ 516		549	4,665	4,332		760	5,082	7,604		1,651	9,155	7,712		2,420	10,133	792		122	914
15,480	9,804		2,484	12,287	10,290		2,542	12,832	10,744		2,756	13,500	18,874		4,462	23,336	15 998		4,004	20,002
858			370	876			368	863			304	304			3.39	\$29			.459	259
23,605	13,820		3,408	10,728	14,613		8,665	18,277	18,348		4,611	22,919	26,586		7,311	83,797	18,790		4,385	21,175
9,813	9,118		1,078	10,191	8,520		1,805	10,335	9,874		3,388	13,357	5,602		4,507	10,109	845		4,323	4,803
3,105	4,253		1,142	5,194	7,745		2,960	10,705	955		489	1,444	714		235	949			372	872
2,507	1,826		680	2,506 2,571	1,065		1,052	1,955 8,131	1,592 2,892		3,968 1,654	5,558 4,546	1,813 3,421		2,829 1,133	4,642 4,554	2 384 8		2,894 347	5,273 355
1,702	2,028			2,038	9,523	",	-,~~-	8,533	3,355		1,948	5,301	1,013		2,161	3,174			179	179
<u>. </u>	470			470	844			844	2,314			2,314	4,449		1,053	5,501	103			103
16,827	20,265		2,895	23,160	34,655		5,817	30,472	30,982		11,438	32,420	17,012		11,917	28,929	2,840		8,115	10,955
152			·	<u> </u>		·		'	·	!			L							K

No. III.—Statement showing the death-rate in districts affected by famine in 1896-97.

	Average		1896.					1897				
Province.	annual death-rate	October	November	December	January	February	March	April.	May	June	July	Aug
Madras.]	
mantas. Turnool	265	1.60	1-22	131	1*28	1.00	114	1 21	1 98	1183	254	8.
nddapah	2216	141	134	178	1.75	1.29	1-28	1 98	174	144	1.49	2
ellary .	25-2	1.61	1:31	1.48	1.39	116	1-85	1 56	179	194	3'96	8.
nantapur .	189	1.74	142	1:39	1.58	119	114	1:28	1 52	1.24	1.91	1
- (12-5				284	2:40	2-98	3 42	4'73	813	6.88	4
anjam	170	~	_	! _	151	140	172	1'64	1.58	280	4'00	8
izagapatam		_		-	1.95	1:00	1.68	276	461		8-03	2
hadrachalam (Godavari District)	14'8	~ ,	-	- i	1	200	100	2 10	701	5109	501	4
Bombay hmednagar	36*28	2:20	2-18	212	1-92	177	2:07	2-68	8'32	8 50	6786	Ŧ
handdah .	35'79	2.64	284	2-35	2-26	1.99	2 62	8700	295	317	8-63	7
esik	85 69	2.86	8-29	8128	8-26	254	29	8:10	8'23	5'25	6'54	8
oona	81 16	2-08	1 97	2-20	2-39	2.85	8769	2-91	,2'60	ð72	10 10	7
atara	31.39	2:69	218	2:27	1.98	1.70	288	372	7 12	5-81	6'82	5
holapur	8272	2-25	1 180	131	182	1.62	2.59	876	4 12	8.00	772	5
ejšenzo	28 15	214	202	242		263	341	4 32	6-28	50	8 78	8
	27'30	1-89	1.80	198	_	184	2:57	8-22	87	458	5*25	1
ijspur	30'39	100			l -			_]]	
barwar .	30 38	_		-	-		_	1		-	-) `
Bengal.	100c		0.7.	,	,	3,04				1	1	1
atus .	8212	241	211	1.68	150	1'36	(not re-		-		-	} [
hahabad .	34 38	178	1.89	1.97	1.96	1.88	270	2:37	254	275	2*85	
aran	29 51	2:42	2-65	241	192	1 86	248	1-96	215	2 45	2 59	1
pambarén	32-64	291	8*22	2-84	2-20	2.36	3.03	215	2'40	244	240	1 *
(uzufferpore	33.40	2*68	2 59	2-37	1.83	1.90	2-61	1.99	2-20	2-26	2.03	1
arbhanga	29:07	2.4	23	51	119	14	3-3	1.8	2.06	27	20	, :
alaman .	33 50	240	244	219	175	173	2.14	178	2 48	3 18	4 52	
lanbhum	34'09	1 19	151	1.95	141	14	2 46	2.09	9:37	5196	408	1
lazarıbagk	31 19	2'31	2.49	2.54	177	1.72	244	2.18	286	9'08	5'84	10
ohardaga	27 65	2.38	3'04	2*26	784	1 69	2-19	1.61	19	197	8 42	1:
edia	38-93	1.99	234	3.46	1.87	° 191	8-16	8.87	3'44	170	1'64	,
huins	29 05	278	8-79	8-69	813	2*30	8:41	374	201	1:60	1.86	2
uri .	20'82	139	153	228	249	2:07	2.68	236	2.98	5 58	4'87	
}	32-80	21	21	207	17	16	2-2	1 _	31	21	2 39	8
hagalpur		1	j	1	l	,	1.87	171	188	2.43	285	
onthal Parganaa	20-93	1 45	140	144	1-13	102	ì		1	l .		
furshidabad	88-91	-	-	-	1.85	1-82	276	285	371	212	2'61	1
ankura North-Western Provinces and	24 15	_	-	-] -	_	-	-	387	247	344	1
Oudh (distressed districts)	28 190	001	000			172	1795	2'05	261	294	2169	
gra		234	3 23	231	211	[}	ł	Į	}		
tawah .	36158	2.48	214	238	271	2-01	2-32	265	280	361	220	2
awnpore	83*78 84*37*	2.59	337	289	2786	3747	377	2'90	283	2.62	370	
alitpur {	84 44	} -	-	-	-	4'84	-	4.55	4-03	8-61	2.68	2
atchpur,	84 55	2.26	2-80	4.66	0.86	-	6188	1	473	8 50	262	2
anda .	30.02	4*20	4'39	471	510	4'81	8-09	5-23			380	8
famirpur	37:35	8-08	618	535	5-08	8164	8:43	215	2.97	4.97		2
llahabad	80.75	2.37	208	3'34	3.92	3 48	5 40	441	2.98	3:09	2.45	
hansi	S1 48	7.87	∂86°ā	ã ∵29	4192	4 16	378	2.28	278	825	316	1
alaun	8526	8*34	5'01	3-29	3-29	375	8:09	2.62	2.20	3-67	4'49	6
lirzapur .	33-06	2'64	2-28	2.95	4'04	3'60	4196	4.82	8-97	3 45	3'88	•
aunpur	30-13	1.65	1:84	3:22	230	2:25	8:28	3.36	3 1 5	248	2.83	8
orakhpur .	80'08	2.93	338	2-62	3-26	2.84	2-69	257	311	210	3-20	4
zamgarh	31 45	1.60	184	233	297	275	271	263	2-26	2-34	3-96	ā
noknow .	36'18	201	2-25	520	3-87	3:38	3-90	3.91	841	B-06	4:89	- 6
Inao	3071	1.96	173	3759	5163	831	8-86	3 62	808	284	281	3
		{	1	371	481	438	5-43	5-31	401	±95	294	3
tai Bareli	33.93	201 290	2:37	ĺ	t i	230	249	3-08	8:30	296	270	a
4			261	2.61	333	3700	4.90	1 4 00			'	
atapur . Iardoi	81-94 81-77	448	276	849	4:39	40	471	637	3-51	296	437	1

Town Circle 3437 Lalitpur is included in the figures given for Jhansi.

75

No. III.—Statement showing the death-rate in districts affected by famine in 1896-97—cont.

240.111.—Statemen		1	1896		1			1897				
Province	Average annual death-rate	October	· · · · · · · · · · · · · · · · · · ·	December	January	February	March		Мау	June	July	August.
Desire de State Material						İ	İ	1	İ	<u> </u>		
Districts slightly distressed. Dehra Dun	27 16	285	2 40	2.09	2 29	185	1:09	2.04	2 40	177	-	_
Muștra	28·8J	2 27	3:29	2:17	1-83	1.29	131	1.75	178	2.37	1.78	206.
Farukhabad	84:01	2.88	2 50	281	2.89	3.98	3 26	372	3 44	2'60	2 53	278
Mainpuri	28.00	210	2.27	2.67	2:39	1-90	202	239	2.21	1.98	1 65	1.80
Etah	27 53	3.83	2 54	2:32	2 53	2 36	275	3.25	3 01	2.57	2 48	2:59
Barellly	32 11	8 33	6.07	4 55	2.85	2.90	248	3 01	278	2 15	210	263
Bijnor	97 14	4 47	8 58	8 51	3 48	2.36	3.32	378	3.82	2.23	1.83	2 30-
Budsun	27:39	8 45	2.80	8 35	8 32	8 19	2:53	3'82	2.85	2.22	2 21	2.46
Moradabad	37 19	6:90	4 14	354	3 33	2 59	2.84	2.88	3.04	1.96	1 95	2.62
Shahjahanpur	32 01	7 59	4 28	3 80	3-97	3 00	3-69	3 69	3 02	2.30	2.35	3.93
Pilibhit	85 44	9 10	716	481	3 07	202	2.22	275	2.31	188	1.98	2:27
Benarcs	33 10	2 63 2 19	2.28	2.04	261	248	3·15 2·82	3 57 2 95	3 27	3 21	3 76 2 80	4 89
Basti Kheri	81 55 38 44	4.78	217 360	274 294	255 257	2.65 2.16	253	347	2·35	2 50 2 47	250	2 59· 2·95
Fyzabad	31 74	2.22	275	2.95	2.93	2 10	350	2:39	2.30	181	270	3 39
Gonda.	31.94	2·54	391	3 31	3.33	320	4 32	4 03	8.72	313	3.77	4.84
Sultanpur	35-61	1.88	217	293	3 19	327	3.77	4 62	3 59	241	257	2 82
Partabgarh	29.74	2 09	1.83	2.70	3 21	3 84	180	4.33	3 86	3 32	216	12 59
Punjab							-					
Hissar	403	2.33	2:35	2 25	215	175	1.90	2 43	8 03	3 34	8 85	2.25
Rohtak	23'3	2-25	2 58	2.25	212	1 59	1 51	1.73	2-10	241	2 33	2 17
Gurgaon	920	375	2-75	_ 42	2 16	1 56	1.54	179	2-21	_		_
Delhi	401	217	2 50	2.75	1 83	1.70	1.77	2.02	2 47	243	1.99	25
Karnal	38 8	2 35	3 17	2 42	2.26	179	1:85	1.99	2 41	270	2 56	2.83
Umballa	40%	3 08	3-08	3100	2 44	3-22	1 87	1.89	1-90	177	1.90	2.33
Ferozepore	30 8	1.83	1.91	1783	1 48	177	2 16	207	2.23	2'34	2 08	-
Lahoro	36-2	2 17	3 33	2 42	1.98	172	1 66	1 59	-	-	-	-
Gujrat	290	2.00	1.88	1 58	2 18	1 52	1 35	1.53	1 88	1 49	-	-
Burma.											1	
Meiktila	-		-	-)	not re-	(1.00	8 50	3 50	8 50	8.00	300	25
Yamethim	-		_	- {	ported	0'98	4 18	3 37	3 86	173	1.98	1.76
Myingyan	_	-	_	- /		(088	1.36	2.72	3 26	204	2.37	168
Central Provinces	39 33	81	63	518	5.8	4-9	4.2	56	748	10 37	8 26	11 28-
Damoh	37 99	1.02	78	5-8	55	43	54	49	0.01	6 39	4.57	7:28
Jabalpur -	36-90	74	5-0	4.9	6.9	69	77	54	6 31	571	4 38	5160
Narsingpore	41.26	77	67	51	6.9	4.0	40	8.2	7:41	648	6.36	7-24
Hoshangabad	39 18	418	8.8	44	43	3:2	2-9	29	776	6 15	4 33	6'95
Nimar	48.78	44	4-2	42	8.8	33	8:3	8-9	5 39	6.98	5.60	7:32
Mandla	31 33	6.0	85	40	39	71	6-7	4.3	7 17	10 52	16 44	16.66
Betul	86-21	3 5	8-0	81	3.6	8.9	48	48	3 63	6 30	745	11 76
Chhindwara	31 16	84	8.2	3.0	25	2-1	3-5	26	2.83	4 C8	4 46	4-80-
Seoni	30.60	61	42	4.8	5*3	44	44	42	4 63	686	828	12:29
Balaghat	80 50	6.5	48	52	419	48	67	40	6 56	1176	8-81	1175
Bhandara	31 40	43	3-8	3.5	85	2-6	29	28	4 47	7:02	5 48	6 42-
Nagpur	31 80	81	2:3	2-5	2.3	1.8	5-0	27	4*54	4 88	3.63	5*68
Wardha ,	38.00	85	26	26	21	17	5-0	26	4*22	5 59	4 00	6'24
Chanda	31 46	26	33	21	20	17	0.9	-	255	2:83	3.30	417
Raipur	31-93	40	3-3	3:0	27	2-2	2-9	41	7 50	9'05	716	9 86
Bilaspur Sambalpur	28-30	88	9.8	34	31	3.9	5-2	67	6.79	10 90	9-92	12-51
	28 51	19	18	2·1	2.3	19	11	28	341	411	2 30	378
Berar Amraoti	38-9	35	2%	0.7	6-1	21	9-7	910			o	0.0
Akola	40.8	80	23 23	27 23	24 20	20	25	36 24	85	33	39	80 11-2-
Ellichpur	- 428	8.2	25	25 25	21		17		4.04	48	47	
Wun	330	28	19	20	17	17	1-9	24	-			57
Borim	877	31	21	20	17	16	18	19	32 23	31 23	38	78
Buldana	40-7	34	23	20	20	1.65	176	19	244	23	31	5'28
	,				1	,	1	1	J - **		, ,,	

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104,145

115,214

No. IV.—Statement showing the number of deaths from all causes registered in each province from August 1896 to July 1897. Province August September October November December February. January March. May TOTAL Aprıl June July Madras 1896-67 ... 59,052 59,694 59,602 60,417 79,213 76,115 53,362 52,259 48,542 54,876 59,074 75,543 787,749 59,463 66,325 56,353 54,953 57,697 70,205 51,527 874,798 50,980 47,720 51,421 50,425 57,747 Bombay. 1896-97 .. 58,903 44,082 40,961 41,040 46,722 50,833 47,549 54,353 56,506 59,827 60,611 637,169 55,081 46,905 46,236 48,728 47,043 46,80I 43,335 47,519 48 370 50,953 46,918 56,120 584,009 Bongal. 1896-97 ... 163,738 183,902 151,392 194,405 214,759 154,095 140,493 211,392 189,410 175,987 162,550 171,842 2,113,965 176,486 196,919 225,393 244,901 190,816 188,502 106,978 177,479 160,897 165,274 2,241,364 154,257 North Western Provinces and Oudh. 181 837 140,611 144,754 126,699 141,406 143,956 125,975 145,830 149,863 135,532 120,859 130,244 1,637,566 127,598 135,118 153,561 1,525,277 148,542 146,621 119,221 99,109 100,463 124,208 135,124 114,905 111,717 Punjab. 1896-97 47,689 51,611 52,468 51,084 50,453 44,262 526,761 84,550 36,492 35,695 41,928 41,672 38,907 47,400 65,106 91,869 69,395 62,920 46,897 43,762 41,484 51,084 45,940 40,637 686,550 Central Provinces 50,098 47,196 46,190 85,977 35,348 36,547 31,153 32,708 58,362 56,318 56,944 61,445 528,286 34,406 35,481 35,343 31,285 29,189 25,548 24,205 27,666 31,245 36,115 32,205 32,853 375 601

NOTE.—The "average" here given is the average number of deaths for the month during the preceding five years,

6,514

8,256

3,856

7,427

5,002

6,936

5,682

9,533

7 839

10,701

11,125

10,511

10,368

7,322

13,188

10,001

6,832

9,439

1896-97 ...

Average

11,796

12,059

10,839

12,010

9,104

11,018

No. V.—Statement showing the number of units of relief (of one day each) relieved in each Province and in Native States.

Province.	October 1896	November	December	January 1897	February	March 1897	April 1897	May 1897	June 1897	July 1897	August 1807	September 1897	M-4-3
- I I I I I I I I I I I I I I I I I I I	October 1865	1896	1896.	amusty 1001	1897	Missell 1991	Shu 1001	May 1001	3 ane 1001	3 (17 TOS)	Your 1991	1807	Total.
Madras		554,000	897,000	926,000	1,602,000	8,091,000	5,032,000	9,105,000	18,176,000	22,048,000	18,827,000	12,217,000	92,475,000
Bombay		160,000	2,975,000	7,362,000	10,744,000	15,078,000	12,184,000	10,359,000	17,381,000	10 896,000	11,584,000	15,312,000	113,980,000
Bengal		63,000	1,417,000	7,675,000	11,840,000	17,423,000	18,267,000	22,069,000	27,795,000	17,132,000	11,640,000	3,672,000	138,493,000
North-Western Provinces and Oudh	634,000	3,452,000	17,160,000	26,346,000	43,428,000	42,593,000	30,774,000	38,850,000	40,473,000	19,147,000	12,802,000	8,535,000	283,694,000
Punjab	180,000	234,000	819,000	2,180,000	3,201,000	4,008,000	2,480,000	2,584,000	3,449,000	1,585,000	661,000	287,000	21,568,000
Central Provinces	200,000	201,000	2,105 000	6.383,000	9,082,000	13,725,000	14,061,000	18 555,000	19,842,000	16,114,000	16,198,000	22,092,000	138,157,000
Burma	60,000	378,000	1,051,000	877,000	812,000	835,000	458,000	457,000	557,000	808,000	766,000	634,000	7,693,000
Berar	00,000		1,002,000	0,7,000	206,000	616,000	513,000	811,000	969 000	849,000	412,000	291,000	4,667,000
Total	874,000	4,841,000	26,424,000	51,749,000	80,415,000	97,364,000	83,769,000	102,790,000	128,642,000	88,529,000	72,340,000	62,990,000	800,727,000
			20,121,000		00,110,000	07,002,000		102,150,000	120,022,000	00,020,000	12,010,000	02,980,000	
NATIVE STATES.													
Central Indus	436,000	178,000	524,000	1,314,000	3,083,000	4,199,000	4,211,000	4,598,000	5,809,000	2,852,000	1,414,000	1,170,000	29,288,000
Hyderabad					49,000	140,000	492,000	806,000	724,000	412,000	561,000	790,000	8,974,000
Rajputana	158,000	573,000	1,279,000	795,000	616,000	1,037,000	703,000	625,070	847,000	463,000	224,000	184,000	7,504,000
Total	594,000	751,000	1,803,000	2,109,000	3 748,000	5,376,000	5,406,000	6,029,000	7,880,000	3,227,000	2,199,000	2,144,000	40,766,000
GRAND TOTAL	1,468,000	5,592 000	28,227,000	53,858,000	84,163,000	102,740,000	89,175,000	108,819,000	136,022,000	91,756,000	74,539,000	65 134,000	841,493,000
	5	4	5	4	4	5	4	4	6	4	4	5	<u> </u>
Number of weeks included in each month	26th September to 31st October	Ist November to 28th November	29th November to 2nd January	3rd January to 30th January	3]st January to 37th February	28th February to 3rd April.	4th April to 1st May	2nd May to 29th May	30th May to 3rd July	4th July to 31st July	1st August to 1 ² 28th August.	29th August to 3nd October	
Average number receiving relief during month													
(1) British India	25,000	178,000	755,000	1,848,000	2,871,000	2,782,000	2,991,000	3,670,000	3,676,000	3,161,000	2,583,000	1,799,000	
(2) Native States	17,000	27,000	61,000	75,000	133,000	154,000	193,000	215,000	211,000	115,000	78,000	61,000	
(3) British India and Native States	42,000	800,000	806,000	1,923,000	3,004,000	2,936,000	3,184,000	3,885,000	3,887,000	3,276,000	2,661,000	1,860,000	

No. VI.—Statement showing the average number of persons receiving relief in each month in each Province and in Native States.

	Prov	nœ,			October 1898.	November 1896	December 1896	January 1897	February 1897	March 1897	April 1897	May 1897	June 1897	July 1897	August 1897	September 1897
Madras		•••				20,000	26,000	33.000	57,000	88,000	180,000	325,000	519,000	787,000	672,000	349,000
Bombay					_	6,000	85,000	263,000	384,000	431,000	435,000	370,000	497,000	389,000	412,000	437,000
Bengal			•			2,000	40,000	274,000	405,000	498,000	652,000	788,000	794,000	612,000	416,000	105,000
North-West	ern Pr		s and C	1	18,000	123,000	490,000	941,000	1,551,000	1,217,000	1,099,000	1,387,000	1,156,000	684,000	439,000	244,000
Punjab			,		5,000	9,000	24,000	78,000	114,000	114,000	89,000	92,000	99,000	55,000	24,000	7,000
Central Prov	VINCOR	44			_	_ }	60,000	228,000	324,000	392,000	502,000	663,000	567,000	575,000	578,000	631,000
Burma		***	**		2,000	13,000	30,000	31,000	29,000	24,000	16,000	16,000	16,000	29,000	27,000	18,000
Berar	•••	•••		}	_	_	-	_	7,000	18,000	18,000	29,000	28,000	30,000	15,000	8,000
	Tota	۱	••		25,000	173,000	755,000	1,848,000	2,871,000	2,782,000	2,991,000	3,670,000	3,676,000	3,161,000	2,583,000	1,799,000
1	Vature	States	•	1												
Central Ind	18.	•]	12,000	6,000	15,000	47,000	110,000	120,000	150,000	164,000	166,000	84,000	50,000	33,000
Hyderabad	• •	•••	•••			-	_	_	1,000	4,000	18,000	29,000	21,000	15,000	20,000	23,000
Rajputana	•••	•••	•••		5,000	21,000	36,000	28,000	22,000	30,000	25,000	22,000	24,000	16,000	8,000	5,000
	Tota	i			17,000	27,000	51,000	75,000	133,000	154,000	193,000	215,000	211,000	115,000	78,000	61,000
GRAI	OT GR	TAL	••		42,000	300,000	806,000	1,923,000	3,004,000	2,936,000	3,184,000	3,885 000	3,887,000	3,276,000	2,661,000	1,860,000

No. VII.—Statement showing the net imports and exports of food-grains from January to September 1897.

(Tons) [Net imports +].

[Net exports -].

		Twer	ımpoı	rts + J.	[Ner ex	ports — J.		
				November to December 1896.	January to March 1897	April to June	July to September	Total.
Pri	NCIPAL PORT	s.						
Calcutta				+ 4,618	+ 44,334	+ 122,056	+ 74,409	+ 245,417
Rangoon .		••		- 90,754	517,019	269,320	— 170,225	— 1,047,31 8
Madras	•	••	•••	+ 1,305	+ 8,687	+ 14,323	+ 13,030	+ 37,345
Bombay				+ 41,374	+ 31,820	+ 60,359	+ 86,213	+ 219,766
Karachi	•		•••	- 21,517	— 14,95 0	- 26,482	39,167	— 102,116
	ES AND DISTE Bengal—	RICTS			From 17th January, 1897		-	
Division Patna	DISTRICT Patna .				+ 1,840	+ 1,991	+ 10,789	+ 14,620
	Gaya	•••			1,888	+ 3,747	+ 5,617	+ 7,476
	Shahabad				+ 1,040	4,324	+ 3,504	+ 220
	Saran .			••	+ 11,318	+ 18,044	+ 14,779	+ 44,141
	Champaran	••	••		+ 5,551	+ 8,240	+ 1,598	+ 15,389
	Muzaffarpur				+ 6,272	+ 17,428	+ 9,164	+ 32,864
	Darbhanga	٠			+ 4,621	+ 26,416	+ 13.438	+ 44,475
Bhagalpur	Monghyr				18,069	— 7,950	5,037	— 31,05
	Bhagalpur	-			14,978	4,473	8,103	— 27,554
	Purnea .	••			 731	1,287	22	2,040
	Malda		•••		— 26	_ 7	+ 40	+ 7
	Sonthal Parg	anas			8,214	1,197	+ 1,400	8,011
Rajshahı	Rajshahi	••			+ 5,573	+ 5,084	+ 1,260	+ 11,917
	Dinajpur		••		 7,920	4,930	+ 23	— 12,827
	Jalpaiguri		•		+ 3,028	+ 5,148	+ 4,523	+ 12,699
	Darjeeling	•	•		+ 1,793	+ 2,171	+ 1,965	+ 5,929
	Rangpur				— 408	+ 433	889	864
	Bogra	••			5,631	-4,632	+ 1,712	8,551
	Pabna	•••			+ 3,894	+ 4,864	+ 702	+ 9,460
Dacca	Dacca .	•••			173	+ 15	+ 334	+ 176
	Narainganj	•••	••		4,772	125	+ 151	-4,746
	Maimensingh	٠	-	•••	+ 2,406	+ 106	+ 251	+ 2,763
	Fandpur	•••	•••		-4	+ 1,076	+ 1,866	+ 2,938
	Backerganj	•••	•••		—470	746	452	-1,668

Note.—In the case of the parts the figures include imports and exports by rail and sea.

In the case of districts the figures as a rule are for rail borne traffic only, but in certain cases (such as Chittagong or Balasore) they molude coasting traffic

The figures are set that is, the imports have been deducted from the exports or successful.

As the imports of one district are the exports of another, no inference as to the gross volume of trade can be made by taking the aggregate totals. Only districts on the line of rail are shown.

(Tons)
[Net imports +].
[Net exports —].

	-			17th January to March 1897.	April to June.	July to September	Total.
DIVISION.		DISTRICT.					
Chittagong	•••	Tippera		444	+ 123	+ 610	+ 289
		Noakhalı .	***	92	— 121	15	228
		Chittagong .	•	+ 4,132	+ 7,536	+ 5,701	+ 17.369
Burdwan		Burdwan	• •	+ 23,022	23,900	14,036	60,958
		Birbhum		35,600	14,106	9,602	59,308
		Hooghly	•••	+ 786	+ 96	+ 345	+ 1,227
		Midnapur .	•	8,643*	30,860		- 39,503
Presidency		24-Parganas	i	+ 51	-40	+ 279	+ 290
		Nadia	•••	 5, 804	+ 4,522	— 404	1,686
		Murshidabad		 4,504	2,645	— 1,539	8,6×8
		Jessore		+ 2,421	+ 3,369	+ 1,580	+ 7,370
		Khulna	•••	827	+ 11	+ 154	662
Chota Nagpur		Hazarıbagh .	•••	+ 2,538	+ 3,648	+ 1,216	+ 7,402
		Lohardaga .	1	+ 18			+ 18
		Manbhum	<i>.</i>	+ 1,796	+ 2,931	+ 2,814	+ 7,541
		Singhbhum .		· 830	— 708	+ 77	1,461
		Ranchi		138	+ 8	+ 20	, —110
Orissa		Cuttack .	•••	 3,971 ⁄	6,287	2,058	12,316
		Balasore		13,709	16,321	12,791	42,821
		Puri		—117	— 931	897	1,94
Torth-Western 1	rov	inces					
Meerut	•••	Saharanpur		+ 3,684	— 667	— t,12 2	+ 1,895
		Muzaffarnagar	••	+ 5,194	10,455	4,507	9,768
		Meerut		+ 5,786	9,780	7 490	11,484
		Bulandshahr		327	14,782	12,903	28,01
		Aligarh	•••	+ 1,517	11,777	16,222	26,48
Agra		Muttra	•••	+ 1,852	2,608	2,075	2,83
		Agra .	***	+ 3,317	+ 2,267	4,746	+ 838
		Farukhabad	**	+ 2,333	+ 738	+ 235	+ 3,300

^{*} For March 1897,

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(Tons.)
[Net imports +]
[Net exports --]

			17th January to March 1897.	April to June	July to September	Total
Division.		DISTRICT.	<u> </u>		*	
		Mainpuri	+ 573	— 533	- 496	456
		Etawah	+ 885	+ 371	617	+ 639
		Etah .	+ 48	-4,14 0	- 3,130	— 7,2 22
Rohilkhand		Bijnor	+ 3,453	+ 1,914	+ 2,858	+ 8,22
		Moradabad	+ 3,615	9,162	2,311	 7,8 58
		Shahjahanpur	+ 1,444	9,006	560	8,122
		Budaun	+ 33	584	110	— 66 1
		Pılıbít	+ 1,440	2,328	51	— 939
		Barelı	+ 1,455	2,634	+ 217	— 96s
Allahabad		Cawnpore	+ 18,030	+ 24,627	+ 2,314	+ 44,97
		Fatehpur .	+ 2,064	+ 3,262	+ 2,823	+ 8,14
		Bánda .	+ 5,250	+ 13,151	+ 5,172	+ 23,57
		Hamırpur	+ 893	+ 2,509	+ 2,042	+ 5,44
		Allahabad	+ 21,273	+ 13,136	+ 11,120	+ 45,52
		Jhansı .	+ 2,649	+ 9,867	+ 4,607	+ 17,12
		Jalaun .	+ 808	+ 4,794	+ 4,063	+ 9,66
Benares	•••	Benares	+ 4,250	+ 11,994	+ 6,362	+ 22,60
		Mırzapur	+ 1,445	+ 4,786	+ 2,312	+ 8,54
		Jaunpur	+ 2,972	+ 1,279	+ 2,377	+ 6,62
		Ghazıpur	+ 845	+ 342	+ 1,602	+ 2,78
Gorakhpur	•••	Bastı .	— 661	6,781	4,831	12,27
		Ballıa	+ 375	+ 82	+ 146	+ 603
		Gorakhpur .	— 92	- 12,868	— 1,458	— 14,41
Kumaun	•••	Garhwal	+ 37	+ 162	+ 48	+ 24
udh		Namı Tal	. — 915	1,348	+ 198	—2, 06
		7. 1	2.22			
Lucknow	••	Lucknow	+ 3,982	+ 6,348	+ 5,683	+ 16,013
		Unao Rae-Bareli	+ 1,910	+ 59	+ 294	+ 2,263
	_	USAS-DSL611	+ 5,198	+ 1,595	+ 2,854	+ 9,647

(Tons.)
[Net imports +].
[Net exports -].

17th January April to June September	765 — 14,353 216 — 5,844 109 — 4,246 319 — 3,533 156 — 7,408 368 — 9,353
Division. District. Sitapur Kheri Hardoi + 3,651 -1,168 + 3,651 + 1,1 Fyzabad + 937 -3,651 -1,245 Bahraich Barabanki -2,009 -2,376	216
Kheri1,168 -3,460 -1,5 Hardon +3,651 -514 +1,5 Fyzabad Fyzabad +937 -3,651 -5 Gonda +2,476 -1,245 -1,5 Bahraich -379 -5,576 -1,4 Barabankı2,009 -2,976 -4,5	216
Hardon + 3,651 - 514 + 1,1 Fyzabad Fyzabad + 937 - 3,651 - 3 Gonda + 2,476 - 1,245 - 1, Bahraich - 379 - 5,576 - 1, Barabankı 2,009 - 2,976 - 4,	109 + 4,216 319 - 3,533 + 75 513 - 7,468 - 9,353
Fyzabad + 937 - 3,651 - 4 Gonda + 2,476 - 1,245 - 1, Bahraich - 379 - 5,576 - 1, Barabankı - 2,009 2,976 - 4,	319 — 3, 5 33 + 75 513 — 7,4 68 — 9,353
Gonda + 2,476	156 + 75 513 - 7,468 - 9,353
Bahraich — 379 — 5,576 — 1,4 Barabankı — 2,009 — 2,976 — 4,	513 — 7,468 368 — 9,353
Barabankı . — 2,009 . — 2,976 — 4,	368 — 9,353
Ramitana	- 3,288
Troppusation 1	3,288
Jodhpur	
Bikaner + 3,922 + 3,0	323 + 7,745
Ajmere-Merwara + 687 + 3,458 + 4,	449 + 8,594
Punjab—	
Delhi : Hissar $+9,830 + 20,248 + 5,4$	907 + 35,985
Rohtak 22 + 70 +	37 + 85
Gurgaon $+1,201 -2,792 -2,$	-4, 093
Delhi $+ 9,735 + 7,453 -1$	473 + 15,715
Karnal +1,198 -1,142 -	14 + 42
Ambala + 4,640 + 4,757 + 3,	751 + 13,148
Simila + 602 + 1,411 +	698 + 2,711
Jalandhar . Jalandhar	372 - 30,138
Ludhiana8,342 -7,711 -8,	166 — 24,219
Ferozepur . — 8,420 — 4,757 — 4,	640 -17,817
Lahore Multan + 2,289 -1,429 -1,5	245 — 385
Jhang $+547$ $-3,824$ $-2,5$	226 - 5,503
Montgomery + 2,652 + 301 + 5	+ 3,170
Lahore + 7,594 -4,091 -6	+ 2,807
Amritsar +838 -8,938 -2,4	136 - 10,536
Gurdaspur1,272 -9,272 -2,4	869 - 13,413
Rawalpindi Sıalkot147 +1,763 +1,7	234 + 2,850

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(Tons) [Net imports +]. [Net exports -]

		17th January to March 1597	April to June.	July to September	Total.
Division.	DISTRICT			•	
	Gujrat	+ 3,204	+ 110	+ 918	+ 4,232
	Gujranwala .	+ 1,855	+ 12,200	5,007	15,352
	Shabpur .	+ 1,330	1,139	- 382	191
	Jhelam	+ 4,278	1,407	+ 1,239	+ 6,924
	` Rawalpındı .	+ 7,022	+ 15,609	+ 12,141	+ 34,772
Peshawar	Peshawar	—713	+ 1,958	- 3,082	— 1,83
Derajat	Bannu	1,576	1,616	1,091	— 4,2 8
,	Dera Ismail Khan	1,804	-2,373	3,457	— 7,63 .
1	Muzaffargarh	933	-2,662	2,114	- 5,70
lombay Presiden	cy—				
Guzerat	. Ahmadabad .	+ 1,267	+ 5,110	+ 2,046	+ 8,42
	Kaira .	1,458	+ 478	+ 1,502	+ 52
	Panch Mahals	9,288	11,668	- 2,443	- 23,399
	Broach	+ 3,218	+ 76	+ 511	+ 3,80
	Surat	+ 3,868	+ 8,945	+ 3,501	+ 16,31
	Bhavnagar	+ 2,576		Į	+ 2,576
	Kathiawar	+ 658	+ 5,527	+ 744	+ 6,929
Deccan	Khandesh	+ 8,181	+ 14,113	+ 15,487	+ 37,78
	Nasık	+ 3,479	+ 7,578	+ 10,907	+ 21,964
	Ahmadnagar	+ 1,190	+ 1,484	+ 6,469	+ 9,14.
	Poona	+ 7,668	+ 16,843	+ 14,161	+ 38,672
	Sholapur	+ 790	1,84 4	+ 11,090	+ 10,036
	Satara	+ 4,409	+ 6,610	+ 10,922	+ 21,941
Karnatak	Belgaum	—779	+ 7,722	+ 6,594	+ 13,537
	Bijapur .	+ 4,397	+ 5,102	+ 16,013	+ 25,512
	Dharwar	4,026	5,940	-3,273	13,239
	Tanna .	-3,314	1,164	422	4,900
	Kolaba	918	+ 225	+ 275	-418
	Kolhapur	+ 5,450	+ 12,539	+ 9,264	+ 27,25

[Net imports +].
[Net exports -].

				Twee c	exports —1.	·	· · · · · · · · · · · · · · · · · · ·	
_					17th January 20 Maron 1897,	April to June.	July to September.	Total.
Division.		DISTRICT.			J		,	
		Kanara			2,006	1,591	48	3,645
		Ratnagıri			+ 6,767	+ 16,938	+ 1,084	+ 24,789
Sind and Balu	chısta	n						
Shikarpur		•••			17,382	29,978	27,052	— 74,4 12
Thar-Parkar					, 316	1,275	+ 2,303	+ 712
Upper Sind F	rontic	er		***	— 4,537	3,009	3,031	- 10,577
Hyderabad	***	••	•••		+ 228	1,330	2,630	3,732
Central Provin	ces							
Jubbulpur	•••	Saugor	•••	٠,	169	+ 7,211	+ 5,023	+ 12,065
		Jubbulpur	•		360	+ 4,691	+ 2,142	+ 6,473
Nerbudda		Narsinghpu	r.	•••	1,322	+ 2,641	+ 2,770	+ 4,089
		Hoshangaba	d		+ 588	+ 4,878	+ 2,553	+ 8,019
		Nimar	•••	•••	+ 2,296	+ 2,524	+ 4,085	+ 8,905
Nagpur ,	•••	Wardha			+ 977	+ 720	+ 1,745	+ 3,442
		Nagpur			+ 3,839	+ 8,629	+ 4,897	+ 17,365
		Chanda	•••		562	- 1,106	356	2,024
		Bhandara	•		+ 771	+ 7,678	+ 2,274	+ 10,723
Chattisgarh	•••	Raipur			10,763	-2,597	977	14,337
		Bilaspur	•••		+ 36	+ 2,604	+ 2,843	+ 5,483
		Sambalpur		••	- 9,184	—7,37 6	6,039	— 22,5 99
Berar—								
East—								, 40.400
Amraoti	***	•••	***	•••	+ 3,670	+ 2,917	+ 5,815	+ 12,402
West—						670	2 950	. 4 765
Akola	4	***	•••	***	+ 1,587	672	+ 3,850	+ 4,765
Buldana	***	440	***	***	+ 643	+ 485	+ 601	+ 1,729
Madr as —					000	1.670	LA 517	+ 1,976
Ganiam	***	***		***	992	-1,679	+ 4,647	
Vizagapatam	. •••	***	••	••	+ 3,780	+ 6,991	+ 10,293	+ 21,064

(Tons)
[Net imports +].
[Net exports --].

				-	17th January to March 1897	April to June.	July to September	Total.
Division		DISTRICT.				,		
Godavarı				••	- 9,184	21,611	22,181	52,976
Kıstna					9,044	- 17,193	— 17,049	43,28ь
Neliore					367	-517	1,495	2,379
Karnul	••			•••	+ 984	+ 661	+ 1,756	+ 3,401
Bellary					+ 2,171	+ 4,092	+ 10,686	+ 16,949
Anantapur					+ 59	1,686	+ 165	1,462
Cuddapah					+ 1,374	591	66	- 717
North Arcot				•	-1,110	- 5,936	5,602	12,648
Chingleput					1,565	- 3,827	5,038	10,450
South Arcot		••			4,930	-14,756	16,093	35,779
Salem	•••				— 2,399	4,944	9,404	— 16,747
Combatore	٠.				7,667	7,556	— 7,446	22,669
Trichinopoly		•••			1,748	2,436	5,920	10,104
Tanjore		•••			- 30,901	- 64,135	48,464	143,500
Madura					3,530	-7,531	9,364	20,425
Tinnevelly	•••	•••			+ 239	+ 2,340	+ 2,362	+ 4,941
Malabar	•••	•••			+ 16,230	+ 23,672	+ 12,633	+ 52,535
South Canara	••	**	••		12,662	6,193	88	18,943

No. VIII. Statement showing extension of irrigation from State Irrigation Works in India since 1881.

	AREAS IRRIGATED FROM ALL CLASSES OF WORKS IN						
Year	Madras	Bombay			North-]	
		Deccan and Gujarat	Sind.	Bengal.	Western Provinces	Punjab	Total
1881–82	Acres 5,653,197	Acres 160,658	Acres. 1,601,986	Асгея. 415,453	Acres. 1,915,949	Acres. 1,687,725	Acres 11,443,968
1882–83	5,949,801	167,004	1,673,293	410,532	1,974,175	1,683,272	11,858,077
1883-84	5,496,595	171,430	1,540,831	518,414	2,297,674	1,652,068	11,677,012
1884–85	5,173,724	180,290	1,783,173	519,550	1,617,304	1,614,288	10,888,329
1885–86	5,586,307	183,751	1,739,919	536,518	1,709,676	1,787,567	11,543,738
TOTAL	27,859,624	863,133	8,339,202	2,400,467	9,514,778	8,424,920	57,402,124
Average	5,571,925	172,627	1,667,840	480,093	1,902,956	1,684,984	11,480,425
1886–87	5,723,643	184,484	1,814,650	417,821	1,478,002	2,014,447	11,633,047
1887–88	5,841,750	190,143	1,871,114	494,968	1,625,797	2,346,622	12,370,364
1888-89	5,945,362	222,878	2,118,635	605,932	1,716,579	2,754,364	13,363,750
1889-90	5,960,717	231,802	2,349,819	583,761	1,994,083	3,016,261	14,136,443
1890–91	5,833,407	221,464	2,203,473	547,725	2,118,249	3,124,666	14,048,984
TOTAL	29,304,879	1,050,741	10,357,691	2,650,207	8,932,710	13,256,360	65,552,588
Average .	5,860,976	210,148	2,071,538	530,042	1,786,542	2,651,272	13,110,518
1891–92	5,516,461	242,671	2,165,631	760,117	2,155,734	3,295,463	14,136,077
1892–93	6,068,078	212,673	2,399,055	744,223	1,906,352	2,989,893	14,320,274
1893-94	6,505,739	230,195	2,373,796	569,372	1,748,992	2,910,283	14,338,377
1894-95	6,158,803	231,910	2,635,726	530,201	1,000,504	2,931,050	13,488,194
1895–96	6,332,482	222,492	2,096,777	616,154	2,089,743	3,797,357	15,155,005
TOTAL	30,581,563	1,139,941	11,670,985	3,220,067	8,901,325	15,924,046	71,437,927
Average	6,116,313	227,988	2,334,197	644,013	1,780,265	3,184,809 (b)	14,287,585
1896–97	6,141,178	264,906	(à)	830,761	3,125,234	4,641,435 (b)	
Demands		D-	D.	D _a	Pa	Rs	Rs.
1891–92	Rs 1,48,22,691	Rs 12,15,726	Rs 45,90,839	Rs 13,99,602	R ₈ 71,11,505	78,90,883	3,70,31,246
1892-93 .	1,85,82,793	11,41,546	50,10,395	12,72,010	65,16,326	69,95,903	3,95,18,97 3
1893–94 .	1,94,06,516	12,46,203	50,31,182	10,72,764	70,03,783	71,87,533	4,09,47,981
1894–95	2,00,68,286	12,55,367	55,30,740	9,75,530	48,49,589	72,78,426	3,99,57,938
1895–96 .	2,12,66,444	12,90,640	42,18,230	10,96,866	77,39,841	1,12,66,818	4,68,78,839
TOTAL	9,41,46,730	61,49,482	2,43,81,386	58,16,772	3,32,21,044	4,06,19,563	20,43,34,977
Average	1,88,29,346	12,29,896	48,76,277	11,63,354	66,44,209	81,23,913	4,08,66,997
1896–97	1,95,73,083	12,54,634	(a)	15,34,398	1,08,46,722	1,42,12,490	

⁽a) Return for Sfind not received
(b) The Punjab area figures include areas irrigated from the Native States Branches of the Sirhind and Western Jumus Canals
N B.—The figures in this statement include irrigation from (1) Major Works, (2) Minor Works for which capital accounts are kept, (3) Minor Works for which no capital accounts are kept.

Extract from the Proceedings of the Government of India, in the Department of Revenue and Agriculture—No. 36—240-5, dated the 30th December 1897.

READ-

Preliminary Narrative of the Famine in India in 1895-97 by T. W. Holderness, Esq, I.C S., Deputy Secretary (Famine) to the Government of India.

Weather and Crop Reports for the various provinces published in the Gazette of India, dated the 1st January 1898.

RESOLUTION.

The famine which since the close of 1896 has grievously afflicted so large a part of India, is now virtually at an end; and an abundant autumn harvest and conditions favourable to the spring crops have, throughout the greater part of the distressed tracts, once more put the people into good heart. The calamity, in respect of its intensity and of the area and population which it affected, though fortunately not in respect of its duration, has been more severe than any other famine of the century, and probably than any other which Indian history records. The tracts in which distress was acute or severe covered an aggregate area of 270,000 square miles with a population of 50,000,000, while distress of less intensity, but which still amounted to famine, prevailed over a further area of 33,000 square miles, with a population of 13,000,000. Thus the area throughout which relief operations were required was two-and-a-half times that of the United Kingdom, while the population for whose relief they were undertaken fell only just short of double the population of Great Britain. And there was probably no part of India in which the poorer classes did not suffer severely from the abnormally high prices which have obtained during the past year.

2. In coping with such a calamity the hands of the Government have been stronger than at any previous period. Since the last famine of comparable magnitude that afflicted the country—that of 1877-78—the irrigated area in which crops are reasonably secure and for which returns exist has increased by 17 per cent., and the area watered from large works constructed by the State from seven to ten million acres, while some five million acres are watered from smaller works under Government control. In 1877 less than 9,000 miles of railway were open. In 1897 the mileage exceeded 20,000; and nothing in the experience of the past year has been more striking than the freedom with which grain has passed from place to place in accordance with fluctuations of prices, and the manner in which the prices of food staples have maintained a general level throughout large tracts, in parts of which the harvests have been excellent. The scarcity prices which obtained over considerable areas during former famines have, except for a very short time, over very limited tracts, and under very exceptional circumstances, never even been approached on the present occasion; and while the improvement of communications has probably operated to make high prices more general than they otherwise would have been, it has certainly done much to diminish the intensity of distress where distress was most acute. The experience of the past year has shown that the reserve of food stocks in India is, even when preceding harvests have been unfavourable, larger than could have been foreseen; and the external help that has been afforded amounts to under 700,000 tons, of which 600,000 were rice from Burma. In parts of the country, however, the local reserves were exhausted at an early stage of the scarcity; and the Government of India believe that the readiness with which the demand thus arising was supplied from the resources of other and more favoured tracts, is due in no small measure to the policy of absolute abstention from interference with private enterprise, which, save in the case of very limited areas of which the circumstances were most exceptional, has been scrupulously observed throughout. Nor is it only in naterial respects that the position has been stronger now than formerly. The experience of previous famines has not been thrown away; and the approach of scarcity found for the first time an organisation elaborated in readiness for the struggle, and the main principles on which it was to be conducted laid down beforehand. The Famine Codes of the various provinces have been subjected to the severest possible test; it has disclosed in them defects which will now be corrected; but on the whole they have borne the trial well.

- 3. In the relief of distress and the prevention of death from privation the Government of this country have incurred a direct expenditure of between seven and eight crores of rupees; they have distributed about two crores more in the shape of loans for the construction of wells, for the purchase of seed and bullocks, and for other agricultural purposes; and they have suspended over two crores of land revenue, of which a substantial portion will not be recovered. This public expenditure has been supplemented by private charity of the most splendid nature. Rs. 29,16,000 have been contributed to the Indian Famine Charitable Relief Fund by India itself, Rs. 1,22,51,000 by Great Britain, Rs. 11,23,000 by other British Colonies, of which more than half came from Canada, and Rs. 2,46,000 by Foreign countries, making, in addition to valuable gifts in kind, an aggregate of Rs. 1,65,36,000. The money has been expended in the relief of distress which refused from honourable motives to accept public aid, in supplying additional comforts to the aged, the infirm, and the diseased, in providing for children whom famine has deprived of their natural guardians, and (perhaps most important and most valuable of all) in giving a fresh start in life to those who had lost their means of livelihood in the struggle for existence. The good thus done has been incalculable, and has called forth the deepest gratitude from the inarticulate millions who have benefited by it. Nor do the public subscription lists by any means exhaust the tale of private hierahity. Large sums of money have been sent from various parts of the world, especially to Missionary agencies, and have been applied to the relief of distress. In Ithis connection the cargo of grain contributed by charitable persons in America and despatched at the expense of the Government of the United States deserves special mention. Gentlemen, both European and Native, who derive their wealth from the land, have expended large sums in assisting the cultivators of the estates in which th
- 4. No measures of relief, however perfect and extensive, can prevent privation and distress at a time such as the past year has been; and privation and distress, when continued for long months together, must of necessity affect the death-roll, if only by increasing the susceptibility and weakening the power of resistance to disease, and by hastening the decease of those whose natural term was in any case approaching its close. Some of the parts of India in which distress was most acute are inhabited by passive and timorous forest tribes, habitually suspicious of Government interference; some are traversed by the great highways along which enormous numbers of the poorer classes annually pass from province to province in search of that employment which the varying agricultural seasons afford; in some provinces the re-establishment of the normal rainfall has been accompanied or followed, as often in former famines, by a wave of malarial fever. But the Governor-General in Council believes that the task of preserving human life which has for nearly a twelvemonth taxed the energies and the resources of the administration of almost every province in India, has been performed with conspicuous success.
- 5. No mere expenditure of money, however lavish, could have secured that success, unless accompanied by untiring devotion to duty on the part of those charged with its administration. The functions of the Supreme Government have necessarily been confined to providing the necessary funds when provincial resources were exhausted, and to exercising the most general supervision over the broad principles upon which rehef was administered. Upon the heads of the Provincial Governments and their advisers devolved the heavy responsibility of watching the pulse of local distress, of instantly adopting measures varied to

suit the varying conditions, and of holding an even balance between the claims of the unfortunate and the duty of public economy. The Governor General in Council desires to recognise most cordially the manner in which that responsibility has been discharged, and the high sense of duty which has animated those upon whom it fell. Upon the Divisional and District Officers, working in concert with the local officers of the Public Works, Medical, Bolice, Forest and other Departments, has lain the task of carrying into effect the scheme of rehef, the success of which was mainly dependent upon their watchful and active care. It is these officers and their assistants, European and Native, Civil, Military and non-official, who have most literally borne the burden and heat of the day; and some indeed have sacrificed their own lives in the successful effort to save the lives of others. There are many also who hold no official position, who have laboured with assiduity and self-devotion to save life and relieve suffering. All have done their duty nobly under the most trying circumstances; and his Excellency in Council desires publicly to express his admiration of the manner in which their fight to save life has been conducted. It will be found that the customary means of rewarding ment have not been overlooked, but the number of those who can be thus individually distinguished is necessarily small. The knowledge that they have done their duty and have earned the gratitude of the poor and helpless will remain with all who have done good service in the struggle, and his Excellency in Council is anxious to add this recognition of their work, which he is sure that public opinion will emphatically and universally endorse.

6. Finally, the Governor General in Council desires to express his admiration of the manner in which the people of the country have endured the calamity. When prices rose at the first approach of scarcity, there were a few unimportant cases of local disturbance; and the amount of petty crime has no doubt been generally increased by the prevalence of famine But as a whole, the inhabitants of the tracts affected have endured the suffering which no efforts either of public or of private charity could do more than mitigate, with a patience and a fortitude that are beyond all praise. The marvellous power of recuperation which the population of India possess has often been the subject of remark; and His Excellency in Council earnestly hopes that within the next few years, favoureble seasons will have restored the people to prosperity, and have obliterated at any rate all material traces of what they suffered during the famine of 1897

* Government	of	Madras	
		Bombay	
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Punjab Burma. Ohnef Commissioner, Central Provinces Chief Commissioner, Assam Coorg ,, Ajmere-Merwara. Resident at Hyderabad Orders.—Ordered that copies of the above Resolution be forwarded to the Local Govern ments and Administrations noted in the margin * for information.

Ordered also, that copies be forwarded to the Finance, Public Works, Home and Foreign Departments for information.

Ordered also, that a copy be published in the Gazette of India for general information.

[True extract]
DENZIL IBBETSON,
Secretary to the Government of India

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