

JOHN HOOPER, Esqu., C. S.,

SETTLEMENT COMMISSIONER,

OUDH.

THE SECRETARY BOARD OF REVENUE,

North-Western Provinces & Oudh,

Dated Lucknow, the 20th May 1899. .

SIR,

I have the honour to submit Mr. S. H. Fremantle's final report on the settlement of the Rae Bareli district. The report exceeds the limits prescribed by the Board's recent orders; but it was written before those orders were issued; and the account it contains of the condition of the district and of the progress and results of the settlement operations, if more in detail than is now thought to be necessary, is interesting and complete. Printed copies were received in my office at the end of December 1898.

The settlement was carried out on the system adopted in Unao and other districts in which revisional operations in Oudh were first under taken. It included the revision of maps and the attestation of records ; and it was entrusted to the District Officer, who was required to conduct it in addition to his administrative duties. The operations were somewhat prolonged, extending altogether over six years from October 1891 to October 1897. But the first year was occupied in preliminary work, and during the last year very little was done, so that the real period occupied may be put down at four years (paragraph 131). The actual assessment of the district area of 1,749 square miles was commenced in the cold weather of 1892-93 and completed by the end of 1895. The settlement is mainly the work of Mr. Baillie, who assessed three-fifths of the district while holding charge of the combined duties of Deputy Commissioner and Settlement Officer. The remaining two-fifths were assessed by Mr. Fremantle. The settlement would probably have been completed in a shorter time if a separate Settlement Officer had been appointed; but, in this case, the experiment of entrusting the work to the District Officer has not proved unsuccessful; and the expenditure, as will be shown later on, was comparatively moderate.

3. The remarks that will be offered in review of the report may be prefaced, as usual, by a brief reference to the character of the district, its tenures and its rents, and other circumstances that influence the assessment.

In the preliminary reports, on which the revision of settlement undertaken, Rae Bareli as a whole was described as extremely fertile, hig ly cultivated, and fully irrigated. It is undoubtedly one of the finest and most fully developed districts in Oudh. The double-cropped area, in several of the parganas, is exceptionally large; over the whole district it reaches the high proportion of 36.7 per cent, of the land in cultivation (paragraph 23). Poppy, which is the great rent-paying crop, occupies 2.2 per cent of the total cultivated area, and nearly 5 per cent. of the area under rabi. The payments for opium average upwards of seven lakhs of rupees, and in favourable years have largely exceeded this amount. was remarked in the Director's report, the district, in many parts, is splendidly equipped with masonry wells for irrigation, which are often of very large size. There are now 20,054 of these wells, of which 11,359 have been constructed since the last settlement (paragraphs 31&77). There is one to every 29 acres of cultivation, so that irrigation is even more secure than in Partabgarh. From these and other sources there is an ample supply of water in ordinary seasons, and practically all the crops that require irrigation receive it.

The district is thickly populated, the average densities according to the last census being 592 persons per square mile of total area, and 1,152 per square mile of cultivation. The density on cultivation somewhat exceeds that in Sultanpur and Partabgarh, and is very high. The holdings are small. The average plough duty is 4.88 acres, which is about the usual area in fully peopled tracts.

- 4. Caltivation had nearly reached its limits at the last settlement, and the increase since only amounts to 11,411 acres, which is equivalent to 2 per cent. (paragraph 76). The present cultivated area is 5,76,263 acres. It is 51.5 per cent. of the total area, which seems a moderate proportion; but, except in one pargana, where there is a good deal of jungle that would repay reclamation, there is very little room for further extension of tillage (paragraph 17). It follows that the enhancement of revenue, which has now been imposed, is derived almost entirely from the rise in rents, and that it cannot be met to any material extent by reclamation of waste or improvement in cultivation.
- 5. The district is one of large estates, and the greater part of it is owned by the chiefs of two important clans, the Tilok Chandi Bais and the Kanhpurias. The distribution by proprietary tenures is shown in the following table, which has been abstracted from that given in paragraph 48 of the report.

No. $\frac{2529}{1-802A}$ of 1899.

RESOLUTION.

REVENUE DEPARTMENT.

Dated Naini Tal, the 24th July 1899.

READ-

Letter No. $\frac{794 \text{N}}{1-162 \text{A}}$, dated 21st June 1899, from the Secretary to the Board of Revenue, North-Western Provinces and Oudh, submitting the Final Settlement Report of the Rae Bareli district by Mr. S. H. Fremantle, I.C.S., together with a review thereon by the Settlement Commissioner for Oudh.

Observations.—The settlement of Rae Bareli was, as in other districts of Southern Oudh, carried out by the District Officer in addition to his ordinary duties. The operations lasted for about six years, from 1891 to 1897, and the total cost amounted to Rs. 2,40,000, a sum which falls at the rate of Rs. 137 per square mile. This rate, though much higher than the estimate (Rs. 80 per square mile), is very much lower than in other districts settled under the same system, and credit is due to the supervision which enabled the Settlement Officer to carry out the work on comparatively economical lines.

- 2. The district is thickly populated, highly cultivated, and well supplied with artificial irrigation from wells, of which there is one (masonry or earthen) to every 29 acres of cultivation. The increase in cultivation since settlement has been small, about 2 per cent. only, and as the last settlement, though just and well distributed, was a full one in the greater part of the district as now constituted, it follows that any enhancement of revenue at the present time must be dependent chiefly on the rise in the rates of rent. The average rise in the rentrates is given in the report as 35 per cent., but the rate of increase varies very greatly in different parganas, and it would be unwise to place too much reliance on the figures on which the increase is calculated.
- 3. The district is chiefly owned by large proprietors, rather less than one-quarter of the villages being held direct from Government by co-parcenary communities. The large landlords are, as a rule, well to do and have, as a body, improved their position during the settlement. The co-parcenary communities, though they have not as yet been obliged, to any large extent, to actually alienate their land, have, it is believed, encumbered it largely with mortgages, and are scarcely maintaining their position.
- 4. The character of the tenures and the method of collecting rent have greatly simplified the question of assessment. Over three-fourths of the cultivated area is held by tenants paying cash rents; the rents are, as a rule, accurately recorded, and, so far as can be ascertained, are collected nearly in full. In a few cases the recorded rents were considered excessive and unsafe as a basis of assessment, but the

deductions made on this account amounted to Rs. 14,580 only out of a recorded rental of over 28 lakhs of rupees. The accepted rents give an incidence of over Rs. 6 per acre-an exceptionally high rate for a whole district. The area which had to be valued by the Settlement Officer was somewhat less than one-quarter of the cultivated area,. and the methods of valuation have during the operations been subjected to considerable criticism and to close analysis. It was apprehended during the assessment of one part of the district that the Settlement Officer had been influenced by an undue tendency to undervaluation, and it was necessary to direct in the case of one pargana that some enhancement should be made in the assessments. The result for the whole district, as shown in paragraph 9 of the Settlement Commissioner's review, is that the average rate applied in valuing the assumption areas is Rs. 4.6 per acre, or almost exactly 25 per cent. below the rate of cash rents. Considering that a large proportion of those areas is inferior grain-rented or nominally rented land, and that the rest is, for the most part, held by high caste cultivators, the Lieutenant-Governor agrees with the Board that the valuation is certainly adequate.

- 5. The revenue demand (omitting nominal assessments) as finally determined amounts to Rs. 15,40,537, and gives an enhancement of Rs. 23 6 on the former assessment, and an incidence of Rs. 278 per acre of cultivation. The assessment is a full one, but allowance has been made for precarious estates, for cultivating communities, and for unrealizable rents by taking a percentage slightly below 50 per cent. of the assets. The distribution of the assessment is believed to have been carefully made, and the Lieutenant-Governor confirms the settlement and sanctions its continuance for the periods recommended in the end of paragraph 14 of the Settlement Commissioner's review.
- 6. The work of the settlement has been satisfactorily carried out by Mr. Baillie in addition to his duties as Deputy Commissioner, and he has been well assisted by Mr. Fremantle, who has submitted a good report on the results.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Secretary to the Board of Revenue, North-Western Provinces and Oudh, for the information of the Board.

J. O. MILLER, .

Chief Secy. to Govt., N .- W. P. and Oudh.

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	TENURE.	Percentage of district area.
	(Khalisa	 60-73
Taluqdari	Sub-settled	 5.18
Sing zamin	dari	 9.81
Coparcenary		 23-36
Government	property and miscellaneous	 .92

Double tenures are not numerous in view of the large taluqdari area. The number of villages and portions of villages held in sub-settlement, or on remanent lease, is 136 (paragraph 128). The minor under proprietary tenures cover 45,659 acres; but of this about one-third is uncultivated, consisting of groves, grazing land and ponds (paragraph 129). The majority of the taluqdars are well-to-do; and, during the currency of the last settlement, they have increased their estates at the expense of the under-proprietors and smaller proprietors. The position of the coparcenary communities is less satisfactory. Actual transfer of land has not as yet taken place to an alarming extent; but the number of mortgages on sub-settled and coparcenary estates is reported to be excessive; and the Settlement Officer anticipates that large transfers will take place within the next few years (paragraph 72).

The condition of the tenantry is not clearly described in the report. In paragraph 91 the Settlement Officer writes of "a large body of substantial cultivators who benefit by the high prices and are in comfortable circumstances." On the other hand in paragraph 51 a contrast is drawn between the relations of landlords and tenants in the large and small estates; and it is apparently suggested that the great landowners treat their tenants with less consideration than the petty proprietors. This is a view which I am by no means prepared to endorse. It is confuted by the fact that it is the small proprietors who exact the highest rents. Nor do I think that a settlement report is an appropriate place for remarks such as those at the end of the paragraph, which accuse the large proprietors of acts of unscrupulous oppression.

6. It has been said above that the enhancement of revenue obtained at the present revision is chiefly derived from the rise in rents which has taken place since the last settlement. The extent of the rise and its causes are sufficiently discussed in paragraphs 89 and 90 of the report. It will suffice here to give the figures. According to the table at page 44 of the report the average rent-rate at last settlement was Rs. 4.47 per acre, while the present rate is Rs. 6.03 per acre, so that the increase is nearly 35 per cent. The areas on which these incidences are calculated include unrented land in holdings.* When this is excluded

From the Appendices it appears that considerable areas of unrented land are included in the various classes of tenure. Their nature is not explained.

the present incidence on the area of 4,51,231 acres, which actually pays rent, is Rs. 6:22 per acre. This as an all-round rate is high; but the rents in Rae Bareli are well established, and remarkably secure. According to the returns the average collections amount to 96.7 per cent of the rental demand. The accuracy of these returns is not beyond question; but in one large estate, which was under the Court of Wards, the accounts show that nearly 98 per cent. of the rental was actually collected (paper)

graph 110).

The average rates paid by the different castes of cultivators are given in Appendix III to the report.† The high and low caste rates are respectively Rs. 5.68 and Rs. 6.82 per acre, a difference of only Re. 1.14. But the Thakur rate is Rs. 5.34 per acre, which is nearly 22 per cent below that paid by low caste tenants; and the Settlement Officer showulf (paragraph 105) that in fairly rented villages, under ordinarily lenient management, the high caste tenants generally enjoy the advantage in rent, that is usual in Oudh, of about 25 per cent. This point is noted to reference to the valuation of the assumption areas, which will be discussed in a susequent paragraph.

7. The cash rented area is more than three fourths of the total in holdings, as will be seen from the following statement of the distribution among the different classes of tenure, in which all land recorded in holdings is included!:—

Class of holdings.		Area in acres.	Percentage on total.
Tenants' cash rented land	***	4,70,449	76.23
Assumption areas.);	*
Occupancy		10,535	1.72
Sir		25,418	4.12
Khudkasht		16,971	2.75
Under-proprietary		45,659	7.40
Grain rented		25,013	4.05
Rent-free and nominally rented		23,013	3.73
Total assumption area		1,46,669	23.77
GRAND TOTAL		6,17,118	100*

Appendix VIII.
 The rates in the Appendix are calculated at the bighs.
 This table is taken from Appendix XIII, statement 4.

The cu ltivated area, exclusive of that in revenue-free plots, is 5,76,004 acres, and the holdings area exceeds this by 41,114 acres. In assessing the Settlement Officer struck out the uncultivated land recorded in the different classes of assumption area, and only took into account the fallows in each-rented holdings. The exclusion of the uncultivated portion of the assumption area is, in my opinion, a commendable feature of the assessment. Uncultivated sir, grain-rented and rent-free lands, yield nothing; and such areas should not be assessed unless they have been wilfully thrown out of cultivation, or if the cultivated area is below the normal. It may seem scarcely necessary to refer to this matter; but the point has I not received sufficient attention in some of the settlements that have come The assessed area after all deductions and additions is under review. It is very nearly the same as the average cultivated area 5,91,259 acres. for the five years preceding settlement, which was 5,90,811 acres*, and it is undoubtedly moderate and safe.

- 8. The rents were found to be recorded with great accuracy in the settlement papers. In only three mahals was there any attempt at concealment; and in only seven was it found necessary to treat the recorded rents as inadequate. The rent-rolls of 56 mahals, amounting altogether to Rs. 67,812, were rejected as excessive and unsafe, and a rental of Rs. 53,232 was substituted (paragraph 103). The difference of Rs. 14,580 appears to be the only reduction made in the recorded rents for the purpose of assessment. As Mr. Fremantle remarks in paragraph 110, very little use was made of the power of rejecting rent-rolls; and the assets represent very nearly the full reneal demand recoverable in a good year, allowance for precarious villages being made in the proportion of assets taken as the revenue. The accepted cash-rental, which gives the high incidence of Rs. 6·16 per acre, must I think be regarded as full, even when the general stability of the rents is taken into consideration.
- 9. I do not propose to examine in detail the method of valuation of the assumption areas. This has been discussed in the orders on the pargana reports, and in some respects criticised, though the general results were approved. There is no need to revive the discussion; and it will be sufficient to note that a reduction of 25 per cent was made in the rates applied to high caste cultivation, of which the assumption area chiefly consists. As has been shown above this reduction represents approximately the average difference between high and low caste rates; and no justification will now be required for a valuation which differentiates for caste, and estimates the rental value of the land held by Thakur and Brahman proprietors and under-proprietors by the rates that would be paid for it by tenants of the same class. The result is a moderate, but by no

means unduly lenient valuation as will be seen from the following statement of accepted rental assets *-

	TENURE		Area.	Rent.	Rate.
Tenants' cash-	rented land		 Acres. 4,53,773	Rs. 27,93,855	Rs. 6·16
	Assumption a	reas.			
Occupancy	***		 8,712	43,601	54
Sir		***	 11,944	62,780	5.26
Khudkasht	***	***	29,617	1,50,048	ac of
Under-propriet	ary	***	 2 9,973	1,50,853	5.03
Grain-rented		***	 25,013	96,451	3.86
Rent-free and	nominally re	nted	31,434	1,33,375	4.24
Total as	sumption are	eas	 1,36,693	6,37,108	4.66
	Total Re	ntal Assets	 5,90,466	34,30,963	5.81

The accepted area of tenants cash-rented land exceeds that noted in paragraph 6 above, as it includes holdings originally classed as favoured, the recorded rents of which were eventually accepted as adequate. No comment is required on the rates for the different classes of assumption area. As the Settlement Officer remarks, they give a full and fair valuation.

The general assumption rate works out to almost exactly 75 per cent. of the accepted cash rate.

10. The total assets after all additions and deductions are noted below:-

		Acres.		Rent.
				Rs.
Rental assets	***	5,90,466		34,30,963
Concealed cultivation		250		610
New cultivation	***	284		438
Revenue free plots†	***	259		1,866
		5,91,259		34,33,872
Addition for sayar				30,914
				34,64,786
Deduction for allowance on proprieta	***	25,958		
, improvements			***	29,726
Net assessable assets				34,09,102

The figures have been abstracted from Appendix XI read with the foot-notes.
 † The figures for revenue free plots should not have been included but, as the nominal revenue assessed on these plots is nowhere separately shown, I have been unable to strike them out.

The allowance for proprietary cultivation has been given on about half the area of sir and Khudkashi combined. The concession was very pecessary in this fully rented district, and it gave relief where it was most required, by moderating the assessment on small properties with high recorded cash-rents.

11. The gross revenue assessed is stated in paragraph 112 of the report at Rs. 16,07,628, and the revenue for realization at Rs. 15,41,217. Since the report was written some small reductions have been made in appeal, and the final figures are as below:—

10	Gross revenue including r	nominal demands	***	Rs.	16,06,948
no les	-au	(Initial	•••	"	14,80,598
5	Revenue for realization	Intermediate		,,	15,32,074
6		(Final		,,	15,40,537

The total reduction in the revenue originally proposed is Rs. 8,562. It is not a large sum; and, as Mr. Fremantle remarks, the assessments by be said to have emerged satisfactorily from the ordeal of a strict scrutiny. The gross revenue takes 47.13 per cent of the assets, and gives an enhancement of 24.81 per cent., with an incidence of Rs. 2.78 per acre of cultivation. The actual enhancement in the realizable demand is 23.6 per cent. The assessment is made upon full rents; but, as has been remarked above, the rents as a rule are well established and remarkably secure. The revenue has been very carefully and fairly apportioned on the different estates. The struggling communities have been treated with all due consideration, by the allowance granted on their proprietary cultivation, and the moderate percentage of assets at which they have been assessed. The larger proprietors, from whose estates the greater part of the enhancement is derived, are generally well-to-do; and their profits are not reduced to any considerable extent by sub-settlements and other under-proprietary tenures. The assessment is certainly adequate; and it is also believed to be fair. As such it is now recommended for the final sanction of the Government.

12. As is the almost invariable result, when a revision of records is undertaken, there was a considerable amount of litigation. The cases of all classes, that were instituted, reached a total of 19,549 (Appendix XIX). The important class relating to determination of underproprietary rent was dealt with on sound principles, in general accordance with the rules issued by the Board. A large number were decided, after the Settlement Officer had left under the superintendence of the officers succeeding to the charge of the district, Messrs. Shakespear and Wyndham, who were empowered to hear appeals. I wish to take this opportunity of acknowledging the assistance given by these officers in this part of the work.

13. The total cost of the settlement is Rs. 2,40,407-7-0, which falls at the rate of Rs. 137 per square mile on the district area. The expenditure is considerably lower than in the other Oudh districts in which the settlement has been conducted on the same system; partly, no doubt, owing to the comparative simplicity of the tenures; but credit is also due for careful supervision. But for progressive assessment the expenditure would have been more than recovered in a single year.

14. The only question remaining is that of the period of the new settlement. The dates on which the former settlement expired are shown in the following table:—

Tabsil.	Pargana.	Pargana. •			Date of exniry.			
games que transcelle de la companya que la companya de la companya del companya de la companya de la companya del companya de la companya del la companya de	Sareni		30th	Jun	e 18 9 5.			
Dalmau	Khiron	***	2,	"	1895.			
	Dalmau	***	,,	9 7	1896.			
Rae Bareli	. Rae Bareli	• · ·	,,	,,	1896.			
	Salon	***	.,	,,	1896.			
Salon	Parshadepur	ć	ý.	,,	1896.			
	Rokha		, t.	,,,	1896.			
	Inhauna		37	37	1895.			
	Mohanganj		,,	,,	1895.			
	Simrauta		23	33	1896.			
Dirgbijaiganj	Bachhrawan		,,	,,	1897.			
	Kumhrawan		9)	,,	1897.			
	Hardoi		"	"	1897.			
Personal Committee of the Committee of t					27161			

[•] The figures given in paragraph 120 of the report are incorrect, a crorection made by the Board in the returns up to the end of September 1897 having apparently been over looked. Expenditure subsequent to that date has now been added.

Mr. Fremantle's proposals are stated in his concluding paragraph. He seems to have miscalculated their effect, which would be to shorten the usual term in all but three parganas. I suggest that the term of settlement should be fixed so as to expire in the different tahsils as follows:—

100

Tabsil.	Pargana.	Date of expiry.	Term of settle- ment.	
1	Sareni		30 years.	
Damau	Khiron	>30th June 1925	30" ,,	
F	Dalmau)	(29 ,,	
Rae Bareli	Rae Bareli	30th June 1926	30 years,	
)· [Salon)		
Salon	Parshadepur	30th June 1926	30 years.	
(Rokha			
°C	Inhauna)	f 32 years.	
	Mohanganj		32 ,,	
Disabilations	Simrauta	1 20ah Jane 1027	31 "	
Dirgbijaiganj {	Bachhrawan	30th June 1927	30 ,,	
	Kumhrawan		30 "	
	· Hardoi		30 ,.	

15. In paragraph 130 of the report Mr. Fremantle mentions the services of the Deputy Collectors and the subordinate staff, and specially commends those of Saiyad Ali Hammad, Deputy Collector, to whose supervision of the vernacular office the comparatively moderate cost of the settlement is mainly attributed (paragraph 120). It is with much pleasure that I bring the commendation of this officer to the notice of the Board. He served under me with credit in the settlement of the Basti district; and I agree with Mr. Fremantle that his long and successful service in this department merits recognition.

The settlement, as has been already remarked, is mainly the work of Mr. Baillie, who held charge for the greater part of the time during which the assessments were in progress. He assessed the larger portion of the district himself, and laid down the lines on which the assessment

of the remainder proceeded. His work needs no praise from me; but I may be permitted to say that it is that of a trained Settlement Officer, who brought a sound and matured judgment to bear upon facts and conditions which his experience enabled him to appreciate. Mr. Fremantle's work was marked by ability and good sense; and he has presented the results of the assessment in an excellent report.

I have the honour to be, SIR,

Your most obedient Servant,

JOHN HOOPER.

Settlement Commissioner.

INTRODUCTION.

This settlement is mainly the work of Mr. D. C. Baillie, who was appointed Deputy Commissioner and Settlement Officer in 1892, and retained charge, except for an interval of five months, until July 1895. He assessed three-fifths of the district. I was appointed Assistant Settlement Officer in November 1893; and succeeding Mr. Baillie as Settlement Officer assessed the rest of the district. I retained charge of the operations until November 1896 but for the last eight months was officiating also as Deputy Commissioner. During the latter portion of the period the approching famine added largely to the ordinary district work and but little progress could be made with this report. It has been completed in the intervals of other work in other districts, and progress has been necessarily slow, while it has not been found possible at a distance from Rae Bareli to make the report as complete as is desirable.

Bánda:
The 20th January 1898.

S. H. FREEMANTLE,

On Special Duty.

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REPORT

ON THE

SECOND SETTLEMENT

OF THE

RAE BARELI DISTRICT, OUDH,

1897.

CHAPTER I.

GENERAL DESCRIPTION.

The district of Rae Bareli, which resembles in shape a segment of a circle with the Ganges for its chord, comprises an area of 1,749.4 square miles. Its greatest length and greatest breadth are each about 50 miles. It is bounded on the west by Unao; on the north by Eucknow and Bara Banki; on the east by Sultánpur and Partábgarh; and on the south by the Ganges, which divides it from the Fatchpur district of the North-Western Provinces. It is of compact shape, and Rae Bareli town is situated at the most central point, no village being more than 32 miles from the headquarters station. It is divided into four tahsils of about equal extent and 13 parganas, of which the statistics of area and population are given in the subjoined table:—

Position and area.

				Total	area.		Populati ce	on accordin nsus of 189	g to the		a per	pula-	-dod		village	village.
Name of pargana.		Number of villages.	Number of mahals,	In acres.	In square miles,	Cultivated area in acres,	Agricultural,	Non-agricultural.	Total.	Density of population.	Average total population 100 cultivated acres.	Average agricultural popula- tion per 100 cultivated acres,	Percentage of rise of total ulation.	Number of village sites.	Average population per vil site.	Average population per vil
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Tansíl Diegeijaiganj.																
Inhauna Mohanganj Kumhrawan Bachhrawan Hardoi Simrauta		77 75 58 58 23 73	119 132 81 87 38 90	64,014 50,926 44,631 60,378 15,575 62,288	100-0 79-6 69-8 94-3 24-3 97-3	29,245 26,341 21,948 30,717 7,218 27,877	44,977 40,168 31,425 40,135 11,558 44,388	14,859 10,471 8,365 13,266 3,211 13,917	59,836 50,639 39,790 53,401 14,769 58,305	598 3 637 6 570 0 566 3 607 7 599 2	204-6 192-2 181-3 173-8 204-6 209-2	153-8 152-5 143-2 130-6 160-1 159-2	3·7 7·1 13·8 18·2 7·8 -·8	446 409 327 337 102 487	134·2 123·8 121·7 158·4 144·8 119·7	777-0 675-2 686-0 920-7 642-1 798-7
Total, tahsil Dirgbijaiganj . Tahsil Rae Barell.		364	547	297,812	465.3	143,346	212,651	64,089	276,740	595 0	193-0	148-3	7.4	2,108	131-2	760-3
Rae Bareli TAUNIL DALMAU.		362	454	237,779	371-5	129,946	161,917	59,958	221,875	597-2	170-7	124.6	24.4	1,594	139-2	612-9
Khiron Sareni Dalmau	:::	123 169 292	153 190 395	65,086 72,880 164,207	101·7 113·9 256·6	35,169 41,674 79,420	48,593 48,887 114,610	12,496 17,481 33,719	61,089 66,368 148,329	600·0 582·2 578·0	173·7 159·2 186·8	138 2 117·3 144 3	7·0 9·1 20·9	396 489 1,113	154·3 135·7 133·3	496·7 392·7 508·0
Total, tabsfl Dalman TABSÍL SALON.		584	738	302,173	472-2	156,263	212,090	63,696	275,786	583-9	176.5	135.7	14.6	1,998	138.0	472-2
Rokha Salon	 	110 60 287	163 93 452	99,063 34,585 148,223	154.8 54.0 231.6	50,439 19,616 76,653	76,410 27,552 104,211	20,694 6,982 26,271	97,104 34,534 130,482	627·3 639·2 563·4	192·5 76·0 , 170·2	151·5 140·4 135•0	15.0 4.5 8.2	670 251 1,618	144·9 137·6 80·6	882·8 575·6 454·6
Total, tabsfl Salon		457	708	281,871	440.4	146,708	208,173	53,947	262,420	595.1	178-7	141 9	• 10·1	2,539	103	523.5
Total, district		1,767	2,447	1,119,635	1,749-4	576,263	•794,831 •	241,690	1,036,521	592-5	. 1799	137-9	• 13·3	8,239	125.8	586.6

2. Besides the Ganges, which forms the southern boundary, the only rivers are the Sai and the Lon river. The Sai, running through the centre of the district past the headquarters, divides the tahsils of Rae Bareli and Salon into two almost equal Portions. The Lon river entering the district from the Behar pargana of Unao forms for a space the boundary between Khiron and Sareni parganas, and ultimately discharges itself into the Ganges near Khajurgaon.

3. Besides these there are numerous drainage channels which are dry in the cold weather, but during the raius convey a considerable volume of water to the Sai and the Ganges. Of these the most important are as follows: The Kathwara Naiya, which joins the Sai eight miles west of Rae Bareli and drains the whole of the western portion of the tahsil. The Maharajganj Naiya, which, rising at the northernmost point of the district, runs at first southward through Kumhrawan and Simrauta parganas, close by Maharajganj tahsili, thence east through a portion of Rae Bareli, and again turning south divides that tahsil from Salon and finally falls into the Sai. The Simrauta Naiya which rises in the Swamps near Haidargarh] and dividing the pargana of Inhauna from those of Simrauta and Mohanganj runs east into the Sultanpur district in a well defined channel. The Nasirabad Naiya, which rises on the confines of Rokha and Mohanganj parganas, and carries away the drainage of the eastern portion of Rokha into the Partábgarh district to join the Sai lower down. South of the Sai the principal channels are the Basaha, which begins in a series of shallow swamps in Khiron pargana, and runs with a well-defined bed through the west of Rae Bareli tahsil, joining the Sai some 10 miles west of Rae Bareli, and lastly the two streams which under the name of Chob, running north and south to the Sar and the Ganges, respectively, from the watershed at Itaura Buzurg, separate Salon tahsil from Dalmau and Rae Bareli, and the Kanhpuria country from Baiswara.

Drainage channels.

Natural features. The rivers.

The Kathwara Naiva.

The Maharajganj Naiya.

The Simrauta Naiya.

The Nasirabad Naiya.

The Basaha.

The Chob.

Natural soil.

4. All these channels are of importance from a settlement point of view, because the facility or otherwise of communication with them is the principal factor in determining the class of soil. The principal natural soils are matiar or clay, dumat or loam, and bhur or sand. Most of the district lies in loam of different consistencies, which changes by imperceptible gradations to matiar or bhur, according to the degree of drainage and to the relative level of land in the immediate neighbourhood. Where a depression occurs without any drainage outlet the result is clay, in many cases too stiff to be worked except in the rains; while the higher ground from which the water drains off easily has nearly always a considerable admixture of sand. Soils therefore, vary greatly from village to village.

5. There are, however, from the south-west to north-east of the district certain The different zones. zones more or less well defined, and which contain as a rule a certain class of soil; and though these vary in depth from west to east, and even among these varying areas there is considerable variety between individual villages, I think it is worth while to attempt to describe them.

6. Starting from the south there is first the Ganges cachar. This is of two descriptions, and I repeat the account of it given by Mr. Baillie in his report on the Sareni pargana. "First, a series of alluvial flats separated from the high bank by old beds, sometimes partially silted up, sometimes carrying a volume of water in the rains. This tract is always under water in the rains, and is only cultivated for rabi. The soil of which the surface is composed varies from year to year, a deposit of pure sand being occasionally laid over what was previously excellent culturable land, or, vice versa, a thick deposit of clay being laid over soil formerly unculturable. As a rule, however, variations are less abrupt. A tract of good cachar for the most part continues good for a succession of years, and new deposit is rarely culturable until for a series of flood seasons it has been bound together by the roots of the tamarisk, which springs up in the Ganges khádar as soon as a deposit rich enough to support vegetable life is made. Where good, Ganges deposit is invariably stiff and clayey. Where raised enough to admit of ful! ploughing, an excellent rabi is grown, and the cachar

The Ganges cachar.

is well worth the usual rate of Rs. 2-8-0 a bigha charged. Soil later deposited or lower lying, in which, from excess of moisture, weeds cannot be eradicated, pays in general grain rents. The crops reaped from such land are occasionally very light, consisting only of a few maunds of peas, which struggle to maturity amongst a dense undergrowth of weeds. Little labour is, however, devoted to such land, and the rent paid is therefore often disproportionate to the crop reaped. Secondly, a tract between this and the old high bank, which in places recedes far from the present course of the stream. Here in great part protected from diluvion is a cultivated cachar of old standing, in which occasionally kharif is grown and rabi crops are regularly sown. Such soil pays high cash rents, being safe and having the advantage over upland soil of doing well without irrigation." The width of the cachar land as a whole varies from about two miles, as in Dalmau and Dhuta, to nothing, as in the western half of the Salon pargana, where the river runs immediately under the high bank.

The Ganges upland zone.

7. This comprises the tract of land which drains directly into the Ganges or into the Lon by means of the tributary nalas. "It consists," (and here I figain quote e Mr. Baillie,) "of soil in general light dumat, but frequently so light as to be properly ranked as bhur. The plateau of alluvial deposit was, as the river sunk into its present depressed bed, cut up by the network of tributary channels, which convey the drainage of the inland portions of the district, the clayey part of the original deposit . being at the same time swept out of the soil in the areas affected by the direct action of the river or of the tributary streams. There is left, therefore, a series of plateaux separated from each other by nalas, the level land on which, though of the lighter dumat, is remarkably fertile, whilst the sloping land which bounds them towards the river or the nalas is of lower value, indeed almost always dry bhur." Under Kurmi, Murai and Lodh cultivation many of the villages in this tract, potably Hamirman in Dalmau and Arkha and Kutra Bahadarganj in Salon, are fully as productive as villages with firmer soil in the rest of the district. Wheat and poppy both succeed admirably. Rice is of course not much grown, but in favourable rainy seasons excellent crops of mendua or makra and juar are obtained. This tract varies very greatly in width. On the west the influence of the Lon and its tributaries extends this light-soiled zone to nearly the whole of the Sareni pargana. Only a few villages in the west centre lie low, and hollows are formed, in which water collects, and the soil is stiff enough to grow rice. Following the Ganges eastwards, the belt gradually narrows until close to Dalmau it extends little more than a mile from the river. Further east the Chob and sundry smaller streams again widen the area of direct drainage. Its average breadth throughout Dalmau and Salon parganas is about four miles. The tract is well-wooded, the large groves of mango and mahua afford in favourable years no contemptible addition to the food-supply, while the sarpat grass, which grows near the river, provides remunerative occupation for the labouring population.

The tract of interrupted a

8. Next in order comes a zone of stiff soiled land interspersed with broad and shallow swamps and usar plains. This is called by Mr. Baillie the tract of interrupted drainage. It extends from Khiron in the west past Lalganj and Thulrai to Bela Bhela in Rae Bareli and Rohanian in Salon. The principal kharif crop is rice, and about a quarter of the total cultivated area is too stiff to allow of a rabi crop being grown, while a further large area produces after the rice only a slender growth of gram and linseed. But most of the cultivated land is in good productive soil. Water for irrigation is available in all but the driest seasons in considerable quantity in the numerous ponds and swamps, while pakka wells owing to the proximity of the water-level are easily and cheaply constructed, and are found almost wherever they are required. The peculiarity of this tract is that there is an abrupt transition from good cultivated soil to the poorest usar, in which a few blades of grass struggle to the surface during the rains. Mahua and mango trees are not so large or so productive as in lighter soils, and the only sayar produce is jungle wood and wild rice and reeds from the jhils.

The Naiva zone.

- 9. Wandering through this tract of stiff soil, from one end of the district to the other is a chain of ihils more or less connected with each other. They differ from • the lakes of the stiff soiled country by being deep and narrow instead of broad and shallow, and by the extensive loops and bends to which they are given. It appears mest probable from their general direction (parallel to that of the Ganges and Sai) and their shape, that they are the remains of an ancient river-bed, and this theory is confirmed by the quality of the soil on their banks. It is, though frequently productive enough, never stiffer than a light loam, and in places, especially inside the bend of tals, the land rises into beur of the poorest description. Such soil has been affected more than any other class of land in the district by the recent cycle of wet years and by the consequent rise in the water-level. The combination of light soil and excessive damp appears to be, as stated by Mr. Baillie in his Dalmau assessment ereport, particularly detrimental. Much land in this tract has during the past four or five years fallen out of cultivation, and many tenants have left the villages. The deterioration is no doubt real, but it seems to be only temporary, for there is no new canal or railway embankment here which can be charged with intercepting the flow of draisinge and altering the natural water-level of the country, and with the series of dry seasons on which we now appear to have entered a speedy improvement may be expected. There are three distinct systems of jhils which seem, however, by their general direction and characteristics to have originally formed one river-bed. These are: first, the Basaha in Khiron draining into the nala of that name; secondly, the Dalmau reaches, known by different names, and draining into the Sai river through the Isaur nala; and lastly, the chain of narrow jhils in Salon, known as the Naiya, which extends far into the Partabgarh district. The villages were not quite at their worst when the settlement record was made, so the papers did not show the full extent of their deterioration. However, in assessing after inspection had revealed the large extent of the damage, due allowance for the large outstanding balances of rents and the general precarious character of these villages was made; and, as far as can be foreseen, the jamas now assessed can continue to be paid, though it will always be necessary for the district staff to watch carefully the condition of the tract. There is no doubt that much could be done to relieve the water-logged tracts by judicious draining works, but the mutual jealousies of proprietors prevent their combining to effect improvements, or giving up eyen an acre of waste and barren land for the advantage of a neighbouring village. An attempt is now being made by Mir Mazhar Husain of Mustafabad to construct a channel to tap the Naiya at a spot one and-a-half miles east of Mustafabad, and convey the surplus water to a nala passing close to that town. It will be interesting to watch the result of the experiment.
 - 10. The land lying along the Sai and its tributary nalas resembles in soil and formation that lying near the Ganges, and the description given of the upland Ganges zone will apply also to this. But it was noticed both by Mr. Baillie and myself that the poor soil on the Sai was as a rule inferior to the poor soil near the Ganges. In some of the Gangetic villages it is possible to grow very fair rabi crops without irrigation, but this cannot be done on the Sai. And the Sai tract has suffered considerably more than the Ganges upland from the cycle of wet seasons, which has, by stimulating rank grasses in sandy soils, each year choked the growth of kharif crops and caused a temporary deterioration, though not to such an extent as in the Naiya zone. On the other hand, the Sai soil with careful husbandry is capable of excellent returns, and in Gondwara, Rastamau, &c., can lay claim to some of the best villages in the district. The depth of the Sai zone depends of course on the extent of the area of direct drainage into the Sai itself or its tributary nalas. To the south of the Sai west of Rae Bareli there is an almost continuous network of nalas, and the depth is here considerable. Further east at Pandri Ganeshpur it is reduced to two miles, but its general breadth throughout the course of the river is about three miles on both the north and the south banks. The Sai runs in a deeply depressed bed, but is subject to

The Sai zone.

sudden increases in volume, and then floods a considerable area of land on its banks and damages the *kharif* crops. In the heavy rains of 1893 and 1894 much damage was done thereby, but the *rabi* cultivation along the banks is absolutely safe.

The northern tal zone.

- 11. Almost the whole of the rest of the district is situated in firm dumat or matiar soil with rice as the principal crop. To the extreme north-east of the district in Inhauna pargana the presence of a somewhat lighter dumat appears to evidence the near neighbourhood of the Gumti river, and direct drainage into the Naiya, which divides Inhauna from Mohanganj, has some influence on the soil of the villages of both parganas which are situated near its banks. But for the whole of the Dirgbijaiganj tahsil (excluding the Sai villages in Bachhrawan), for the north of Rae Bareli tahsil and for the whole of Rokha pargana, except for the villages bordering on the Maharajganj and Nasirabad nálas already mentioned, the predominant soil is stiff. dumat or matiar of the same description as in the southern tal circle. There are of course considerable variations, the stiffest soil being situated in the parganas of Mohanganj, Rokha and Kumhrawan, where 70 per cent. of the cultivated area is under rice in the kharif, and 25 per cent. grows no second crop after it. The quality of the natural soil, however, is throughout this tract remarkably uniform, and the abrupt transition from bhur to matiar met with in the southern parts of the district, is absent. here. Ponds and jhils, some of them of a considerable extent, though nearly all shallow, are met with throughout the tract and pakka wells can be almost everywhere easily and cheaply made. Throughout this tract the great rent-paying crop is rice. Wheat and poppy are hardly so productive as in the lighter soils, and in the stiffest portion of the tract the rabi is of an inferior description. On the other hand, in the hot weather, owing to the irrigation facilities, sanwan or chena is largely and successfully grown.
- 12. In climate as in position the district occupies a middle place, between the most westerly and the most easterly districts of the provinces. The west wind blows strong in the spring, but the rights are almost always cool; while the cold of winter is not intense and frost but seldom occurs. The district is said to be a healthy one. Epidemics of small-pox used to commit great havoc, but vaccination and good fortune have kept them away of late. Cholera, outbreaks of which may occur at any season, but are more frequent in autumn and spring, has been destructive at times.
- 13. The rains generally commence near the end of June and continue till near the end of September, with only short breaks between. By that time the rice sown broadcast and the earlier millets are ready for the sickle. But it frequently happens that the rain stops early in the month, and then the rice and in a less degree the millets suffer. For the jarhan rice and juár crops, which are often not harvested till late in November, and to provide moisture for ploughing for the spring crops, a further fall in October is needed and usually takes place. November and December are generally practically rainless months. But it is rare to have no rain at all in the cold weather; showers usually fall about the beginning of January. The most favourable time is between 15th of December and 15th of January. If earlier than this, it may interfere with germination; while, if later accompanied by much cloudy weather, damage is frequently caused to the crops on irrigated lands. The rabi harvests of 1894 and 1895 were both deficient from this cause:—

Climate

Rainfall.

			Tahsfl.		Allegayers	
•Year.	Sadr.	Dirgbi- jaiganj.	Dalmau.	Salon.	Total.	Average.
1	2	3	4	5	6	7
• 1870 • 1871 • 1872	48·7 47·1	40·0 45·8	47.9	52·4 68·9	189-0 203 2	47·1 50·8
1873 • 1874 • 1875 • 1876	35.4 43.6 37.2 35.4 26.7	31·0 29·0 27·6 35·0 20·6	30·9 32·8 27·1 29·0	47·4 59·8 47·3 33·7	144-7 165-2 139-2 133-1	36 2 41 3 34 8 33 2 24 ÷
1877 1878 1879 1880	11·2 25·3 34·5 7·3	10·4 27·4 51·2 16·4	20·6 10·0 22·9 29·8 11·5	29·5 19·4 30·6 48·3 16·2	97.4 51.0 106.2 163.8 51.4	12·7 26·5 4 r9 12·8
• 1881 1882 1883 1884	20·7 25·4 27·7 37 3	39·3 21·7 21·7 37·4	18·9 29·6 26·0 35·9	33·3 30·8 28·3 40·3	112·2 107·5 103·7 150·9	28:0 26:9 29:9 37:7
1885 1886 1887 1888	45'1 51.7 38.8 47.8	46·7 46·4 36·8 52·6	30·1 38·6 33·6 42·4	41.9 59.1 21.4 56.0	163·8 195·8 130·6 198·8	40.9 48.9 32. 6 49.7
1889 1890 1891 1892	55·3 47·5 29·6 41·4	41·8 48·2 30·4 33·9	35·0 47·7 39·3 52·7	48.5 51.3 42.9 41.3	180·6 194 7 142·2 169·3	45·1 48·7 35·5 42 3
1893 1894 1895 1896	59·8 62·7 52·7 15·9	61·3 57·8 38·2 12·8	46'3 54'0 37'4 8'5	52·7 64·3 41·7 15·8	220·1 238 8 170 0 53 0	55.0 59.7 42.3 13.2
Total	1,011-8	961·4 35 6	879·9 32·6	1,123-1	3,976·4 147·3	994·1 36·1

Statement showing rainfall at Sadr station of Rae Bareli district from 1870 to 1896.

Year.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total,
1870			-2	.8	-3	'1	5.7	14.6	18.8	6.2	2.0			48.7
1871		1.0	16		1.3	.7	5.4	11.1	5.0	20.7	***	***	1.3	47.1
		1.4	.3	1.2		•1	4.0	10.4	14.8	3.2	***	***		35.4
		2	2	.I	***	.9	*3	19.4	9.3	13.2	***		144	43.6
		+2	.1		***	***	10.6	7.0	10.1	9.2	***	***		37 2
	in	'3	.5		***		3.2	11.4	12.1	7.9	***	***		354
1876		'2	***	***	***	***	.2	13.1	7.5	4.2	1.5	***		26.7
1877 1878		.7	-9	*4	*6	-4	. 8	19	1.9	1.6	1.7	****	*3	11 2
1878		18	.1	***		***	39	5.6	7.9	6.0		***		25.3
1.0770			***		***	***	4.1	5.4	10.3	12.8	1.9		***	34.5
1000		***	*4		***	-6		3.1	1.3	1.4	***	4	.1	7.3
1001			-1		***	•7	1.5	5.3	11.1	1.8	.2	***	***	20.7
1882			1			.2	5.9	10.8	7.0	1.1	.3		***	25.4
0000		2.7	.1	.1		***	1.9	8.9	3:7	10.3	***			27.7
1884					***	.8	3.1	9.6	12.5	9.3	2.0	144	1	37.3
1885		49	***	***	***	+3	7.9	10.4	19-4	3.3	***		2.9	45-1
1990				.6	.1	1.5	11.9	14.9	9-9	8.0	4.0	***	-8	51.7
1007		.9	***	***	-1	***	5.2	8.8	16.5	6.2	1.1			38.8
1888		1.2	-9		***	-5	2.2	13.8	20.9	8.3	***			47.8
1889		1.9	*6		***	-1	6.8	22.3	10.5	13.1				55.3
1890		***	***	.3	***		15'0	16-7	8.8	1 6.7	***	***	***	47.5
1891	. 1	.2	-2	•5	***	-7	.1	2.6	12.8	11'2	1.3		***	29.6
1892		.4	25		***	.2	5.7	14.6	13.9	4.0	***	-1	***	41.4
1893		*6	1.3	*8	***	2.5	7.2	10-5	12.3	20.5	33	-8	***	59.8
1894		.2	2.7	***		.1	12'8	9.5	12.3	6.5	16.3	17	•6	62.7
1895		1.8	'7	.3	.2		7.2	22.6	9.7	9.5	.6	***	•1	52 7
1896		6				***	3.9	2.4	8.8	.1	•••	*5	.2	15.9
Total Averag		16.6	12:5	5.1	2.6	10.4	136-5	286.7	289·1 10·7	206·3 7·6	36·2 1·3	*3.5	6.3	1,011 8

- 14. The statements given above show first, the yearly rainfall at each tahsil, and secondly, the rainfall at the Sadr station for each month. It will be seen that Salon, the most eastern tahsil, has, as was to be expected, the heaviest rainfall, while Dalmau has the least. The tables are very good indices to the years of scarcity, the average rainfall during the years 1877 and 1880 and 1896 being 12.7 and 12.8 inches and 13.2, respectively. No other year shows a rainfall under 24 inches.
- 15. On the other hand, the abnormal rainfall of 1894, following on 1893, itself a record year, resulted in very inferior crops. The effects of seasons of extraordinarily high or low rainfall will be considered later on. It is enough here to remark that the present year of drought has come after a cycle of 11 wet years, whose rainfall averaged 45½ inches, while the average of the 27 years shown in the table is only 36·1.

16. A comparative area statement for each pargana and circle is given in Appendix I. Here it will be sufficient to show the percentages of each class of area for the whole district as found at the survey:—

	Assessa	Not assessable.					
Cultivated Uncultivated	New fallow Old fallow Culturable waste Groves			51·5 1 4 5 0 12·1 7 9	Reveune free Village site Covered with water Otherwise barren	:::	2·5 8·1 11·5
		Total	*	77-9	Total		22.1

Cultivated area.

Classification of areas.

17. The proportion of cultivated to total area varies from 45.7 in Inhauna to 57.2 in Sareni. The low proportion of cultivated land in Inhauna is due to the undoubted fact that there is still in that pargana a considerable area of jungle which will repay breaking up. With this solitary exception the proportion varies directly with the character of the soil in each pargana, being lower in the parganas which consist principally of clay soil, and higher in those which have most sandy land. The reason for this appears to be partly the large area in clay soils, which is for a part of the year covered with water, and partly the large space taken up by usar plains, which cannot be profitably broken up. Extension of cultivation in clay soil (except in Inhauna) is hardly possible, except at the expense of groves or by the costly process of constructing enclosures for jarhan rice in the jhils. In light soils reclamation usually costs nothing, and has been carried as far as is possible. Further extension could only be made by breaking up land on the slopes of ravines, which would as soon as the soil was loosened by the plough scour to such an extent as to damage neighbouring lands. On the whole it is probable that not more than three per cent. of the total area should be classed as culturable waste. The cultivated area would have been larger had it not been for the fact that, owing to the heavy rains of the seasons before survey much lard in thin sandy soils had fallen out of cultivation temporarily. Thus Pachbrawan, 2nd circle, Rae Bareli, 2nd circle, Salon, 4th circle, all show a considerable decrease of cultivation since last settlement. Any increase of the cropped area due to bringing these lands under the plough would not of course be real.

Culturable waste.

18. From the foregoing remarks it will be seen that much of the area classed in the survey as culturable waste is not so in reality. As the matter was of no practical importance for assessment, it was not worth while to attempt to make an accurate revision of the classification, but it was found that what was in one village recorded as usar, was called banjar or culturable in the next, and that no dependence could be placed on the statistics.

Old and new fallow.

19. New fallow is usually land which for accidental circumstances has remained uncultivated in the year of the survey. Old fallow may be this, but is more often land which is occupied by threshing-floors, well-runs and paths between villages, and the ways by which the cattle go out to their grazing grounds. These areas should

really be included in the "otherwise barren." Old fallow is but very seldom what its name represents, i.e., land which was formerly cultivated but has been abandoned for several years.

20. The district is very well supplied with groves throughout. The total area recorded as under groves is 7.9 per cent. of the whole area, but besides this there are large tracts of land containing numerous trees not enclosed or planted in the form of a grove which have been recorded both now and at last settlement as "culturable tree bearing waste." Parganas Inhauna on the north-east and Sareni on the south-west are exceptionally well wooded. The groves consist almost entirely of mango and mahua trees, which in favourable season provide a great addition to the food-supply of the district.

Groves.

21. Of real jungle there is very little left in the district. The villages of Banbharia and Kathaura in Inhauna pargana still retain some of the thick jungle which, as their names show, was once their principal characteristic, and a few other villages in the same pargana have also some jungle land. In Tikari, the residence of a talúqdár in pargana Rokha, much genuine jungle has been broken up since last settlement, and a little new remains. One village of the Tiloi estate on the Sai also contains a considerable area of thick jungle, which superstitious fears have hitherto protected from the axe. This is the only remnant of the jungle mentioned by Major-General Sir W. Sleeman in his journey through Oudh as extending for 12 miles on both sides of the Sai. It was noted as the stronghold of the Nain robber chieftains who, the original owners of 13 villages, gradually annexed the greater portion of the Salon pargana, and paid little or no revenue to Government. After the rebellion steps were taken to break it up. Some was cleared by the neighbouring zamindars and in other cases areas were marked off and now form part of the Palmer land grant. Dhak jungle is found more or less throughout the stiff soil zones, and there is also some along the banks of the Sai, but there are no large patches, and the total area is trifling. As a rule it is in land which will repay breaking up, but sometimes it is found in usar, which looks anything but productive.

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22. The principal lakes of the district—those of Mung Tál, Hanswa, Khaur and Salethu—are situated in the northern tál zone, while the southern tál zone contains the deeper and narrower lakes of Narpatganj, Jalsen and Bisaiya. They all, however, contract to very small dimensions in a really dry season. They present considerable difficulties in assessment, as the extent to which rabi cultivation on their edges is possible varies with the speed at which the waters subside after the rains, while the rice sown on their bank in the kharif is peculiarly liable to floods. Accordingly the receipts of the estate bordering on these lakes vary very much from year to year.

Lakes,

23. The area under each crop for each pargana in the year of survey is compared with the returns of last settlement in Appendix II, but an abstract of it is here produced for reference:—

Principal products and crop.

	Dirgbija	iganj.	Rae Ba	reli.	Dalma	ıu.	Salor	1.	Tota	
Description.	Arras	Percentage.	Area.	Perce-tage.	Area.	Percentage.	Area.	Percentage.	Ara.	Percentage.
Rice alone 2. Do. followed by rabi,	Acres. 30,781 52,473	21·5 36·6	Acres. 6.037 27,469	47 21·1	Acres. 4,130 17,522	2·6 11·2	Acres. 22,430 37,306	15·3 25·4	Aeres. 63,378 134,770	11.
Total, rice	83,254	58.1	33,506	25.8	21,652	13.9	59,736	40.7	198,148	34

	Dirgbija	iganj.	Rae Ba	reli.	Dalm	su.	Salor	n.	Tota	1. •
					all end					. •
Description.		_								ė
	Area.	Percentage.	Area.	Percentage	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.	2.0	Acres.		Acres.		Acres.		Acres.	
3. Juar, kodon, mendua, &c., with arhars.	28,126	19-6	34,334	26*4	47,160	30-2	30,013	20:5	139,633	24.3
4. Bájrá 5. Urd, mung, mothi 6. Sugarcane	1,557 9,472 389	1·1 6·6 ·3	4,536 23,800 656	3·5 18·3 ·5	5,366 11,826 4,051	3.4 7.6 2.6	7,565 10,329 181	5·2 7·0 ·1	19,024. 55,427 5,277	3.3 9.6 9
e e e e e e e e e e e e e e e e e e e	100 700	85.7	00.000	74.5			105.004			78.5
Total, kharif	122,798	80.1	96,832	74.9	90,055	57.7	107,824	73:5	417,509	146.0
7. Wheat alone and in combination.	34,223	23.9	20 761	16.0	22,747	14.7	27,781	20.9	105,512	18.4
8. Barley alone and in combination.	13,408	9.4	22,829	17.6	52,292	33.4	32,512	22-1	121,041	21.0
9. Gram and peas	29,264	20.4	22,629 3,428	17.4	16,075	10.2	20,727	14.1	88.695	15·4 2·9
0. Poppy 1. Vegetables, tobacco, &c.,	4,402 2,245	3.1	880	2.6	3,410 899	2.2	5,969 1,740	1.2	17,209 5,764	10
Total, rabi	83,542	58-3	70,527	54:3	95,428	61.1	88,729	60.4	338,221	58:7
2. Zaid crops	11,754	8-2	7,484	5.8	4,858	3-1	7,917	5.4	32,013	5.5
Total, erop area	218,094	152-2	174,843	134.6	190,336	121-9	204,470	139-3	787,743	136.7
Deduct twice-cropped land	74,748	52.2	44,897	34.6	. 34,073	21.9	57,762	39.3	211,480	36.7
Total, cultivated area	143,346	100.0	129,946	100.0	156,263	• 100.0	146,708	100.0	576,263	100.0

It will be seen that the *kharif* crop covers 72.5 per cent., *rabi* crops 58.7 per cent., of the total cultivated area. Taking into consideration the superior quality of the *rabi*, it is probable that the value of the *rabi* harvest is somewhat greater than that of the *kharif*.

Rice.

- 24. The whole of the north of the district, i. e., tahsil Dirgbijaiganj, the northern third of Rae Bareli tahsil, pargana Rokha, and the northern portion of pargana Parshadepur in Salon, are situated in the stiff soiled tract, and their principal product is rice. The northern portion of pargana Dalmau, the southern part of Rae Bareli, and the central tract of Salon pargana comprising the southern tal zone, also grow chiefly rice. About one-quarter of the whole is jarhan or transplanted rice cut in November, while the rest is known as 'kuari' or 'dhan,' and cut usually at the end of September. Jarhan rice is rarely, if ever, followed by a rabi crop. Kuari rice, on the other hand, is usually followed by a crop of peas, barley and often wheat. The jarhan rice is planted out either in enclosures reclaimed from lakes and marshes, or in land adjoining them, for which irrigation until late in the season is likely to be available. The produce usually amounts to about twelve maunds per bigha, while the rice sown broadcast produces under favourable conditions about eight maunds. No amount of rain injures the rice, unless floods rise above the head of the plant and so destroy it. Much time and labour is spent in banking it up and weeding it.
- 25. Next to rice, juar, or the great millet, is the most usual kharif crop. It thrives best in a loam soil of medium consistency, but is also sown on the lighter soils. It requires but little seed, and succeeds fairly well with a very moderate amount of

cultivation. The poorer class of labourers in the district frequently sow their one or two bighas of juar, and going out to work leave it to look after itself till harvest time:

Juar will stand very heavy rain without injury, except in the lightest soils, in which it is when young, liable to be choked by weeds. It does best, however, with a light but long continued rainfall. It is one of the great food-crops of the peasant class.

Other kharif crops.

26. Bájrá is but little grown in this district, but in certain localities, especially along the Sai river, it is of considerable importance. It is exclusively grown in light soils, and requires still less rain than juar. Provided the rainfall does not fail altogether in any one month of the rainy season, a fair crop can be counted upon. Kodon is grown to a considerable extent, though included in the statement with "other crops." It also requires little seed, and gets little cultivation. With mendua or makra it is *the first reaped of the kharif crops. The latter is indeed frequently sown in irrigated land before the first rains fall, and transplanted with the break of the monsoon. Arhar is usually sown with kodon or juar, and remains on the ground till after most of the rabi crops are reaped. Urd, mothi and mung are usually sown in outlying lands or in groves. They are not sown till August, and are cut in November; and as they are not as a rule irrigated, the chief requisite for them is favourable, but not too heavy, rain late in the season. Sugarcane is not an important crop in this district. Its production is almost entirely restricted to the Kurmis of Bachhrawan, Hardoi and parts of Dalmau and Rae Bareli. Local superstition prevents its cultivation almost throughout the Kanhpuria country, which occupies the greater portion of the Dirgbijaiganj and Salon tahsils, but there are indications that the prejudice against it is dying out. It is much exposed to the ravages of white auts.

27. Of the rabi crops barley alone and in combination shows the largest area, but it is often sown with gram and peas, and probably the aggregate outturn of those grains is larger than that of barley; wheat occupies 16.2 per cent. of the total cultivated area and 27.6 per cent. of the area under rabi crops. It thrives best in light loams, and is almost invariably irrigated; it is very liable to suffer from damp in a wet cold season. Gram and barley are grown in all descriptions of soils. They seldom get artificial irrigation, and a good outturn depends principally on a favourable winter rainfall. Gram, with which linseed is often sown, thrives best in a clay soil, and much lowlying rice land is sown year after year with the same crop.

28. Poppy occupies 2.9 per cent. of the total cultivated area and nearly 5 per cent. of the area under rabi. It is the great rent-paying crop, principally, but by no means exclusively, in the hands of low-caste tenants. As in the case of wheat the very best poppy villages are in the light-soiled tracts, while the plant is invariably artificially irrigated and very liable to injury from damp. The statement given below for which Mr. Mawson, Sub-Deputy Opium Agent, has kindly supplied the materials, shows the area under cultivation and the amount paid for the opium for the last 27 years:—

The rabi food crops.

Poppy.

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			seer.	Dirghijaiganj.		1	Rae Bareli.		Dalmau.		Salon.		Total.	Averag
•	Season,		Rate per s	Area,	Amount disbursed.	Area.	Amount disbursed.	Area.	Amount disbursed.	Area.	Amount disbursed.	Area.	Amount disbursed.	per bigha.
	1		2	3	4	5	6	7	8	9	10	11	12	13
			Rs.	Bigha.	Rs. a. p.	Bigha.	Rs. a. p.	Bigha.	Rs. a. p.	Bigha,	Rs. a. p.	Bigha.	Rs. a p.	s. el
869-70			5	2,592	1,43,215 8 9	1,716	12,154 1 0	1,540	1,04,610 5 0	3.344	2,03,132 8 0	9,192	4.63,112 6 9	10
870-71		***		3,122	38,553 9 9	919	34,990 6 4	1,361	20,766 8 6	1,634	54,012 14 4	7,036	1,48,323 6 11	4
371-72	***			3,301	1,89,526 9 0	1,011	50.858 3 3	791	32,535 11 0	1.811	72,190 2 10	6,914	3,45,110 10 1	9 1
372-73		"		3,114	1,47,859 11 5	1,193	50,486 10 11	939	45,994 8 1	2,096	83,013 15 0	7,342	3,27,354 13 5	8
373-74		***	SHAME THE RESERVE	2,687	99,438 4 11	1,367	63,787 10 1	1,047	59,017 7 10	2,337	1,20,887 3 6	7,438	3,43,130 10 4	9
74-75	***	***		2,488	91,614 9 9	1,584	68,390 10 0	1,339	63,486 7 9	2,754	1,33,045 10 0	8.165	3,56,537 5 6	8
76-76	***	***		2 592	1,43,215 8 9	1,715	1,02,047 3 0	1,540	1,05,710 5 0	3,344	2,06,132 8 0	9,191	5,57,105 8 9	12
76-77	***	5 91.38	***	2,894	1,18,618 0 9	1,952	1,19,145 12 6	1,522	1,08,096 10 3	3,896	2,20,951 14 0	10,264	5,66,812 5 6	/ 11
77-78		","	***	2,402	72,875 10 5	2,081	1,07,774 11 3	1,856	1,27,645 14 4	3,417	1,93,587 5 2	9,756	5,01,883 9 2	10
78-79		***		2,241	99,064 7 11	3,007	1,50,681 13 0	3,309	1,84,568 8 10	4,890	2,43,301 13 8	13,447	6,77,616 11 5	10
79-80		""		2,697	89,398 10 3	3,816	1,41,261 8 4	4,136	1,90,417 1 2	6,011	2,28,222 1 3	16,660	6.49,299 5 0	7
80-81		""		3,235	1,23,986 8 10	4,065	1,35,251 7 9	4.274	1,70.615 7 9		2,55,548 15 4	18,026	6,85,402 7 8	7
81-82	""	***	***	3,995	1,83,019 3 6	4,251	2,32,550 9 4	4.374	2,51,479 8 8	6.452 6.642	3,63,289 3 8	19,262	10,30,338 9 2	10
82-83	***	***	***	4,587	1,63,113 6 8	4,485	2,03,546 4 7	4,571	2,44 273 10 1	7,109	3,67,898 15 6	20,752	9.78.832 4 10	9
83-84			***	3,949	2,45,104 9 1		2,94,418 6 2	4,837	3,56,575 1 0		4,84,725 1 9	21,119	13,80,823 2 0	13
84-85	***	""		4,860	2,78,983 3 1	4,612 5,272	3,36,972 15 5	6,060	3,87,089 4 11	7,721 8,739		24,931	14,77,967 3 11	11
85-86			.,,	5,422	2,14,119 14 6	5,255	2.60,256 11 11	6,343	2,80,189 1 7	8,646	4,74,921 12 6 3,73,778 3 11	25,666	11,28,343 15 11	8
86-87	***	***	""	5,027	2,45,357 1 10	5,147	2,57,499 9 6	5,879	2,87,861 7 10	8,029		24,082	11,82,703 13 1	9
87-88	***	***		4,682	2,64,776 13 2	4,938	2,68,670 11 10			7,799		22,558	12,38,465 6 8	10
88-89	•••			4,406			1,36,418 0 5	• 5.139	2,71,101 5 11 1,48,320 6 4		4,33,916 7 9		6,93,995 6 4	6
89-90	***	***		5,526	1,65,675 5 1 2,59,729 9 3	3,780 5,066	2,41,313 12 6	4,504		7,596	2,43,581 10 6	20,286	10.88,322 12 6	9
90-91	***	311	***	5,883			1,60,991 8 0	5,021		8.447	3.50,659 3 3	24,060	7,35,857 11 6	6
91-92		***			Contract of the contract of th	5,244		5,054		7,957	2.48,239 3 11	24,138		5
92-93	***	***	***	4,874	1,36,486 15 3	4,388	1,12,635 6 6	3,987	1,15,796 3 5	6,917	2,14,213 1 5	20,166	olinian	8
93-94	***	***		3,591	1,61,371 4 0	3,302	1,44,959 5 5	3,016	1,25,250 1 8	5,876	2,54,106 5 3	15,785	6,85,687 0 4 4,97 399 13 0	6
94-95	***	***	6	3,628 5,491	1,36,538 12 4	2,999	97,270 14 3	3,026	89,874 8 10	5,847	1,73,715 9 7	15,500	6,15,044 14 10	4
95-96	:::			6,258	1,48,223 8 9 1,74,917 7 3	4,805 6,033	1,44,338 6 4 2,14,829 7 1	4,236 4,646	1,17,267 15 9 1,72,680 10 3	8,059 7,772	2,05,215 0 0 2,61,463 9 4	22,591 24,709	8,23,891 1 11	5
2.1	Total			105,544	42,87,725 2 8	94,003	41,43,502 2 8	94,347	44,71,530 12 5	155,142	68,55,736 1 4	449,036	1,97,58,494 3 1	
rerage o	f 27 years	***		3,909	1,58,804 10 2	3,482	1,53,463 0 8	3,494	1,65,612 4 0	5,746	2,53,916 2 5	16,631	7,31,796 1 3	8

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The figures in column 12 show what its importance is as a rent-paying crop. For the two years 1883-84 and 1884-85 the payments made by Government to the cultivators exceeded the whole revenue of the district. Since then seasons have become more and more unfavourable, and cultivation somewhat fell off. With, however, the recent rise in the rate paid by Government it has again increased, and has probably now in fact reached a point beyond which extension is only possible by a resort to poorer soils. There seems to be no reason why the figures of 1884-85 should not be again reached. From the statistics of produce in column 13 it will be noticed that during the last eight years there have been only two average years and no good years. The rest have all been poor, mostly owing to unseasonable and excessive rains.

• 29. Garden crops and tobacco occupy but an insignificant area, and are as a rule found only in the immediate neighbourhood of large village sites. Certain villages, however, such as Kandrawan in Salon, Pidhi in Rokha, and Oi in Hardoi, have a reputation for tobacco, owing to the brackish nature of the well water. Of rabi crops there remain to be mentioned only oilseeds. These being invariably sown with other crops are not shown in the returns, but their total produce must be considerable. They are chiefly grown for export, and have been a most paying crop to the cultivators during the dry seasons of 1896 and 1897.

here irrigation is Zaid or summer crops.

cum miliaceum, a

Melons are grown
the edges of lakes,
ried on as follows:
f water; the space
sown. Water can
the weather rice is

30. The cultivation of zaid or summer crops in places where irrigation is available is on the increase. The chief of these is Sanwan or panicum miliaceum, a quick-growing small-grained millet, which prefers a stiff soil. Melons are grown chiefly along the banks of the Sai, and hot weather rice along the edges of lakes, swamps and drainage channels. The cultivation of the latter is carried on as follows: an embankment is made in the jhil while there is still abundance of water; the space within the embankment is then emptied by baling and the rice sown. Water can then be let in from outside as required. Land suitable for hot weather rice is usually let out year by year, according to the prospects of the crop, to any tenant who bids for it, and is seldom held on a regular lease. In lowlying hollows where there is no jhil, or where the surface water dries, it is often irrigated by the laborious use of the dhenkli or lever. With careful cultivation the produce is large and land suited for its growth sometimes rents as high as six annas per biswa. When a grain rent is taken it is usually one-third of the produce.

frrigation, -- Sources of supply.

Other rabi crops

31. The district is on the whole well supplied with means of irrigation. The area shown as under water, i. e., in lakes, jhils and streams, is 90,718 acres, or 8.1 per cent. of the total area. Most of the jhils, especially in the tal zone, are shallow, but contain in ordinary seasons sufficient water for supply to the rice during a break of the rains and to provide one or two waterings for the rabi. A few of the watercourses are also dammed at the end of the rainy season, but the land bordering on them being in most cases uneven and difficult to irrigate, very little use is made of this source of supply. Pakka wells in working order numbered at the survey 20,054, and kachcha wells only 7,368. Owing to the run of wet seasons immediately preceding the survey, the water-level of the country had risen considerably, and most of the kachcha wells had fallen in; and as there was plenty of water in the jhils, it had not been necessary to reconstruct them, but in most parts of the district they are practicable, though they only stand for a very short time. In 1890 there were 13,648 kachcha wells. Water is found in the north of the district at six to thirty feet, while in the south the distance from the surface is sometimes as much as sixty feet. The following table shows, first, the actual area recorded as irrigated from different sources in the year of survey; secondly, the area unirrigated in the year of survey; and thirdly, the irrigable area, i.e., the area actually irrigated during any one of the five years previous to the survey, and also the number of pakka and kachcha wells and the average depth of water in each pargana.

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ā	400
н	-

								Cultivate	d area.						Irrig				A verage depth
			Tota	ı				Irrigate	d area.				TT	igated.	ar	28.	wells.	wells.	of water.
Pavi	gans and tabeil.		cultivat	ed.	From	wells.		anks and	Other	sources.	Tot	al.	Unitr	igated.			pakka w	of kashcha wells	
			Area.	Per- centage.	Area.	Per- centage.	Area.	Per- centage.	Area,	Per- centage.	Area.	Per- centage.	Area.	Per- centage.	Aren.	Per- centage.	Number of p	Number of k	Feet.
			Acres.		Acres.		Acres.		Acres.		Acres.		Acres.		Acres.				
Mohanganj Kumhrwan Bachhrawan Hardoi	 	11111	29,245 26,341 21,948 30,717 7,218 27,877	100·0 100·0 100·0 100·0 100·0 100·0	6,692 9,182 6,073 7,186 1,739 8,581	22·8 34·9 27·6 23·4 24·1 30·8	5,623 3,315 4,899 6,918 2,449 7,000	19-2 12-5 22-4 22-5 33-9 25-1	38	 2 	12,315 12,497 10,972 14,142 4,188 15,669	42·0 47·4 50·0 46·1 58·0 56·2	16,930 13,844 10,976 16,575 3,030 12,208	58·0 52·6 50·0 53·9 42·0 43·8	22,730 19,396 16,619 23,659 6,080 22,514	77-7 73-6 75-7 77-1 84-2 87-6	1,309 1,407 825 1,136 307 1,658	151 38 20 26 22	19·14 16·05 14·57 16·95 16·68 16·79
Tahsil	l Dirgbijaiganj		143,846	100-0	39,458	27.5	30,204	21.1	126		69,783	48.6	73,563	51.4	110,998	77-4	6,642	257	19:38
Tahefl and	pargana Rae Bareli	***	(a) 129,908	100-0	35,609	27.4	13,428	10-5	907	•6	49,944	38.5	79,964	61.5	86,666	66-7	5,061	599	19-38
Bareni		:::	35,169 41,674 79,420	100·0 100·0 100·0	8,623 14,981 20,890	24·5 35·9 26·3	8,749 2,572 17,896	24·9 6·2 22·5	8 188 519	 .5 .7	17,380 17,741 39,305	49·4 42·6 49·5	17,789 23,933 40,115	50°6 57°4 50°5	27,883 26,665 50,023	79-3 63-9 62-9	695 646 2,038	2,058 3,039 814	16:36 22:71 17:85
1	Taheil Dalmau		156,263	100.0	44,494	28 5	29,217	18-6	715	5	74,426	47.6	81,837	52.4	104,571	66-9	3,379	5,911	18:7
Rokha Parshadepur Salon	100 100 107 100 108 109		(b) 50,249 19,616 (c) 76,622	100·0 100·0	20,402 6,823 21,172	40·6 34·7 27·7	5,507 1,300 15,284	11-0 6-7 19-9	43 204	2	25,952 8,123 35,660	51·6 41·4 47·8	24,297 11,493 39,962	48·4 58·6 52·2	38,879 14,529 67,113	77·3 74·1 87·5	2,120 638 2,214	152 82 367	19·8 16·0 15·7
	Tahsil Salon		(d) 146,487	100-0	48,397	33.0	22,091	15.2	-247	-1	70,735	48.3	75,752	51.7	120,521	82-2	4,972	601	16:8
Total, distr	rict Rae Bareli		(e) 576,004	100.0	167,953	29-2	94,940	16.4	1,995	.3	264,888	45.9	311, 116	54.1	422,756	73-3	20,054	7,368	17-9

⁽a) Excluding 38 acres of Revenue free plots,
(b) Ditto 190 ditto ditto.
(c) Ditto 31 ditto ditto.

⁽d) Excluding 221 acres of Recents free plots.
(e) Ditto 259 ditto ditto.

Irrigable area.

32. Of the total area under cultivation no less than 73 3 per cent, has been shown as irrigable, i.e., it has actually been artificially watered in one of the five years ending with the year of survey. If we add to this the area growing rice only, followed by no second crop, which though frequently watered by lift from swamps and ponds is but seldom recorded as irrigated, and which amounts to 11 per cent, of the total area, but very little remains as unirrigable, and most of this is poor and uneven land, and would not repay irrigation. It is plain, therefore, that in ordinary years very little land which requires water fails to get some at least, though many of the smaller swamps and ponds dry up after providing one watering only. The irrigable area is largest in the stiff-soiled tahsils of Dirgbijaiganj and Salon, where swamps and ponds abound.

Irrigated area.

33. The statistics of actual irrigation also take no account of any artificial ewatering given to rain crops. Accordingly the irrigated area should be compared, not with the total area under cultivation, but with that under rabi and zaid crops. The irrigated area is 45.9 and the rabi and zaid area 64.2 of the total, so that about 71 per cent. of the rabi and zaid area was irrigated in the year of survey. The remainder about coincides with the area growing gram alone, which is rarely irrigated, and much of which is by its position incapable of irrigation. So judged by this test also it appears that in ordinary years all the crops which derive advantage from irrigation receive it. The fact is of importance in connection with the projected Sarda canal, which according to the original scheme was to run two branches through this district, one on each side of the Sai. Taking into consideration the above figures, and also the undoubted fact that the rabl crop of 1895-96, though not one-tenth of an inch of rain fell from seed time to harvest, was fully up to the average, I think it may be safely laid down that in this district at any rate canal water is not required for the irrigation of rabi crops. In the case of a failure of the rains of course it would be of very great service, but it is at least open to question whether sufficient water would be available to keep alive the enormous area of thirsty rice, and whether the advantages derived from the canal in the exceptional years of monsoon failure would be sufficient to counterbalance the well known disadvantages of its introduction into an already fully irrigated country. A large area south of the Sai (see paragraph 9) already suffering from water-logging owing to rise in the water-level could not fail to be prejudicially affected until the necessary measures for draining it were taken. The moderate depth at which water is found almost all over the district and the industrious character of the people afford scope for an almost unlimited increase in the irrigated area, and liberal advances from Government on the first signs of drought are all that is required to cover the country with earthen wells, to secure in great part the crop of millets, and to provide moisture for the sowing of the rabi. Year by year too the number of masonry wells increases, and each new year of drought does much to stimulate their construction.

The circumstances of the famine of 1896-97, during which the district had at one time about 90,000 persons receiving relief, may no doubt be used as an argument for the construction of the canal. I would therefore point out that the average rainfall of the four tahsils for the year 1896 was only 13.2 inches—far lower than that of any other district—while Dalmau tahsil recorded the actual minimum of 8.5 inches. No sooner did drought declare itself in September 1896 than the numerous wells in the country were worked night and day to irrigate the juar crop, with the result that a large proportion of the crop was saved. This was not the case in the Fatchpur district immediately across the Ganges. Here, whether owing to the greater depth of the spring level or to other causes, well irrigation for kharif was the exception not the rule.

34. There are two distinct tracts where a failure of the rains appears to have a more prejudicial effect than in the rest of the district. The first is the greater portion of tahsil Dirgbijaiganj, which depends so much on the rice harvest and on irrigation

Precarious tracts.

from jhils. Here the distress in 1877-78 was most intense, and it was so again in 1896-97. A second precarious area is the belt of land which has been called the Naiya zone (paragraph 9), and which extends through Khiron, Dalmau and Salon parganas. It is not only, as already stated, liable to damage from damp, and has deteriorated owing to a cycle of heavy rainy seasons, but is also peculiarly subject to injury in years of drought, because irrigation is almost entirely from the jhils, and in most places the sub-soil is sandy, and wells, either masonry or earthen, are difficult, sometimes impossible, to construct. The only other portions of the district which can be called in any way precarious are the poor bhur villages on the borders of the Sai in Rae Bareli, Parshadepur, Salon and Sareni. Maps and statements showing the tracts believed precarious from these various causes have been appended to the hand-books for each tahsil.

Com munications.

35. The new Lucknow-Benares Railway complete as far as Rae Bareli, and under construction for the rest of its length, passes through the district from Bachhrawan on the west to Jais on the east. There is a metalled road parallel to it all the way and another connecting Rae Bareli with Dalmau on the Ganges, distant 14 miles from Fatchpur. The roads to Salon and Lalganj are metalled for 13 and 5 miles, respectively. The rest of the district is served by kachcha roads, which are usually in fair condition for wheeled traffic. The second class roads running to Unao, Haidargarh, Inhauna, Salon and Mustafahabad are all raised and bridged, while the other roads are fit for traffic at any time of the year, except in the few places where they cross nalas or run through jhils. But carts are not used to a very great extent. The itinerant baniya usually has very little capital, and finds it cheaper to load his goods on ponies and buffaloes of his own than to hire carts and bullocks. There is also a considerable but decreasing traffic along the Ganges which borders the district.

Markets.

36. The principal markets are, for cattle, Husainganj in Rai Bareli tahsil; for grain and other articles, Rae Bareli itself, Lalganj in Dalmau and Maharajganj in Simrauta pargana. The advent of the railway has made Rae Bareli, which is easily accessible from every direction, the great collecting and distributing centre of the district, but much of the trade of the southern portion goes to Kalakankar Bázár on the Ganges in Partábgarh district. In each tahsil are eight or ten local markets, in which weekly or bi-weekly bázárs are held, and the producer has an easy market for his produce. Grain is not usually sold direct to the dealer. In most villages a contract is given to a weighman to realise dues on sales in the village in return for arranging for the disposal of the produce when required to do so, and it is through him that the village grain usually reaches the purchaser. In some villages, however, an amount estimated to be equivalent to the weighing dues is added to the tenants' rents and realised with them, and in that case the latter make their own arrangement for the disposal of their property.

Population and towns.

37. The population of the district was at the census of 1891—1,036, 521. It falls at the rate of 592 per square mile and at 180 per 100 cultivated acres. This is a very high incidence for a purely agricultural district, but there is no indication that the limit has as yet been attained. In some villages purwas or hamlets, large and small, are scattered all over the face of the country, and high cultivation and flourishing crops are the result. In others of apparently equal natural advantages the population is comprised almost entirely in the main village, and outlying crops are poor. But one of the chief characteristics of the district is the number of inhabited sites. Their number was recorded at the survey as 8,239, giving an average of 126 persons only to each. Some of them are very small, containing perhaps two or three houses only, their origin being the desire of a careful cultivator to live close to his fields. Other inhabited sites are of considerable size, the principal of them being given in the subjoined list.

The figures given do not include the population of outlying hamlets:-

Name of tahs	a.			Populatio	on.				
		Rae Bareli M	unicipality						,79
	N.	Kurihar	***	***	***	***	* ***		,38
Rae Bareli		Bawan Buzur	g	APR		***	***		,17
	"")	Sataun	***	***	***	***	***		,11
	1	Jihwa Sharqi	***	***	***	***			,85
		Bela Bhela	***	***	***	***	***	1,	,80
nervies panerali	- (Jais				***			,93
	1	Salon	***	191	***	***	***		,96
Salon	<	Nasirahad	***	***	***		***		,5
)	Pershadepur	***	***	***	***	***		,24
	/	Dih	***	***	***	***	***		,81
	- 1	Mustafabad	***	***	441			1,	46
	(Dalmau Pahu	***	111	***				,00
Dalman			444	***	***	***		1	03
	(Bhitargaon	***	***	***	***	***	1,	81
	,	Bahai	***	***	***	***	***	1,	48
	(Thulendi		***	***	***		2,	94
	- 11	Sehgaon	***	***	***	***		2,	91
	1	Bachbrawan	***	74.1		494			68
Dirgbijaiganj	1	Simrauta	***	***	***	***	***		,11
	1	Inhauna	***	***	***	***		2,	08
	- 11	Pauhauna	***	***	***	***			78
		Tiloi ·	***	***	***	***			76
	L	Maharajganj	***	144	***	***		1,	60

Of these Rae Bareli only has a municipality, while Dalmau is the only town administered under Act XX of 1856. It has been several times in contemplation to apply the Act to Jais, but the project has been abandoned on the residents of that town representing their poverty. The compact character of the town making police supervision easy and its usually excellent drainage due to its being built on a height has in great measure obviated the necessity. (Rae Bareli, Jais, Dalmau, Salon, Nasirabad, Mustafabad and Thulendi are all old Muhammadan "kasbas." The inhabitants were well off in nawābi days owing to so many of them finding employment under the Government. All have now decayed more or less except Rae Bareli, the site of the sadr station, and Dalmau on the Ganges, which has a bathing fair every full moon. The largest fair is held at the full moon in Kartik (November), and is attended by persons from a very long distance.

38. The population is almost purely agricultural, coarse cloth and glass bangles are manufactured for local sale, but very little else, and so far as I know nothing whatever is made for export. Even the common brass vessels are but seldom made in the district; they are usually imported from Bhagwantnagar in Unao. The following comparative figures of population are reproduced from the census report:—

Occupations.

Classified by religion	Number.	Per cent.	Classified by occupation.	Number	Per cent.
Hindus	950,290 85,965	91·7 8·3	Agriculturists Labourers	634,719 160,112	61*2
Others ,	266	***	Total	794,831	76.7
Total	1,036,521	100 0	Traders and bankers Professional Artisans Menials Others	60,604 15,708 64,929 55,595 44,854	5·8 1·5 6·3 4·3 5·4
			T-tal	1,036,521	100.0

Of these classes the first is entirely devoted to agriculture and the second almost entirely. The two form together 76.7 per cent. of the population. Many of the menials also no doubt are directly dependent on agriculture. Of the other classes the

dependence is not so direct, but they also minister to the needs of the agriculturist, and their prosperous condition or otherwise depends chiefly on agriculture. Traders in grain and capitalists, who are at such times able to drive hard bargains, are perhaps the only classes who do not suffer from agricultural depression. Besides agriculture the only important occupation is service. Large numbers of men, chiefly Brahmans and Thakurs from Baiswara, are employed in Government service, or in that of zamindars and mahajans in distant parts of the country. The enormous extent to which the higher castes are supported by remittances from abroad is shown by the following return, kindly supplied to me by the Postmaster-General:—

		Money-orde	rs i	ssued.	Money-orders received.	Differenc	e.	
		Rs.	a.	p.	Rs. a. p.	Rs. s	. 1	p.
1895	 ***	2,50,182	5	8	12,61,316.12 4	10,11,134	3 8	8
1896	 	2,30,735	11	6	19,36,797 4 11	17,06,061 9) [5

Unfortunately figures for former years are not available, and those for 1896 and to a partial extent for 1895 are no doubt swelled by extraordinary remittances rendered necessary by the famine of 1896 and the general agricultural depression of the former years; but there is no doubt that even in comparatively prosperous times the remittances are large and amount to at least one-half of the Government revenue.

Export and imports.

39. The following table shows the exports and imports by rail at Rae Bareli station since the railway was opened in October 1893 up to October 1896:—

		18(2) -	Exports.												
Year.	Gram,	Other food-grains.	Sugar and gur.	Salt.	Cloth.	Other articles,	Metals.	Rice.	Wheat.	Other food-grains.	Oil seeds.	Benes, hides and horns.	Ghf.	Firewood.	Country cloth.
	Mds.	Mde.	Mds.	Mds.	Rs.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Rs.
November 1893 to October 1894.	22,332	87,683	5,487	23,611	2,01,751	24,420	32,859	1,739	629	96	19,641	13,992	281	5,029	4,396
November 1894 to October 1895.	1,02,842	2,55,058	6,898	53,853	1,60,322	24,216	27,422	499	186	1,256	14,058	20,940	156	38,440	5,63
November 1895 to October 1896.	2,628	39,233	9,664	44,152	1,39,897	18,965	29,505	14,213	5,988	15,181	36,366	11,855	75	26,226	1,523
Total	1,27,802	3,81,974	22,049	1,21,616	5,01,970	67,601	89,786	16,451	6,798	16,533	70,065	46,787	512	69,704	11,556

The large import of food-grains during those years was due to successive bad rabi harvests and to the excessive rainfall of 1894 which spoilt the kharif crop of that year. Matters were somewhat better in 1895-96, and imports fell off until the drought of September and consequent smart rise in prices caused a large influx from more favoured places. In normal years it is believed that some wheat is exported in return for the coarser grains which are imported, but that there is no large surplus of food-grains available for export, the district to a great extent consuming its own produce. Besides possibly wheat, there are only two chief staples of export. First the rabi oilseeds, of which a bumper crop was reaped in 1896—mahua seeds, in some years a considerable item, are included under the same head. Then come bones, hides and horns, of which the supply is always large. Crude opium, the importance of which has been already dwelt upon, is not shown in the list.

Weights and measures.

- 40. The ordinary weights in use are the panseri, weighing two Government seers, and the man weighing two-fifths of a Government maund; but there are great local variations, and in some places in Salon the seer is larger than the Government weight. The Shāhjahāni bigha, with a side of 55 yards and almost exactly five-eighths of an acre, is exclusively used for land measurement. I have met with no local variations.
- 41. In Appendix III will be found a comparative statement of the area cultivated by the different castes and the rent they pay. The analysis has been made only

Cultivating classes

for the chhapparband holdings, or those of resident tenants, which are 86.3 per cent. of the total cultivation. The remaining area is pahikasht (i.e., cultivated by a tenant • residing in other village). Most of this is held by tenants who cultivate also in their own village, so probably the average area of a holding is somewhat more than is shown in the statement. The proportion of chhapparband land held by each caste, the size of the holdings, and the average rent, is given below :-

	High caste.						Low caste.										
Description.	Brahman.	Chhatri.	Baniya.	Kayasth.	Musalmán,	Total.	Musaimán.	Abir.	Lodie.	Gadariya.	Kormi	Mursi.	Pasi.	Chamsr Kori.	Others.	Total.	Aretage,
Percentage of chhap- parband cultivation held by each caste.	16.8			1-7	19	35 ¥	2'9			2.3	6.7	7-2	7.8	8.0	8:6	. 66-1	,
Average size of hold- ing in bighas	9. b. 6 13	Control of the Control	8. b				B. b	6 11	4 11	200			B b.		B. b.		B. b.
Average rent rate per bigha.	Rs. a. p.			Rs *, p.	Rs. a. p. 3 6 8	Re. a. p	Rs. s. p.	Rs. a. p.		Rs. a. p.	Ra. a. p		Rs a.p.	Rs. a. p:	Ras.p.	Re a, p	Rs. a. p

High caste tenants thus occupy about 35.9 per cent. of the total area. The Chhattris, the land-owning caste, have large holdings almost invariably at low rents, and their fields are seldom well cultivated. Brahmans frequently hold on favoured tenures, but in many villages may be found paying as high rents as low caste tenants. This is due to the fact already noticed (paragraph 38) that many of this caste are employed on service away from their homes, and make remittances which enable their families to live in comfort and to cultivate at a full rent. Of the true cultivating castes Ahirs are the most numerous. They are found everywhere, many of them have large holdings, and are enabled to live comfortably. They are almost always good and industrious cultivators. Next to them in numbers come Pasis. These men usually cultivate two or three fields, and in addition earn something by daily labour, or by their hereditary occupation as village menials or thieves. They seldom have capital and usually spend their spare earnings in drink. Kurmis are found in some portions of the district belonging to the land-owning class, but in most parts have no zamindari rights. They hold a large share of the good land at moderate and sometimes high rents, and are known as the best growers of wheat and sugarcane in the district. Murais here, as elsewhere, chiefly devote themselves to market gardening, and for this reason pay much higher rents than others. Lodhs are numerous in some parts of the district; as cultivators they are but little inferior to Ahirs. Of the Musalmans, a large proportion are Gujars, who form the chief cultivating caste in the Rokha and Mohanganj parganas. They are good husbandmen and frugal livers, and differ but little in any way from the Hindus among whom they live.

42. It will be most convenient to consider the proprietary classes by the Proprietary classes.—The fiscal divisions of parganas and tahsile, which in the main correspond with the territorial limits of the different clans. The statement appended shows the distribution as it is at present :--

	_			1		2. 1				Hind	u.							
							*		Chhatri							n.		
Name of pargana.	Bania.	Bengali.	Brahman.	Amethia.	Bais.	Bisen.	Chauban.	Chandel.	Gautam.	Janwar.	Kauhpuria.	Raj Kumar.	Sombansi.	Others.	Fotal of Chhat-	Faqir and Goshain.	Kalwar.	Variable.
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17.	18	19	2
nhauna			4		(a) 28						1		1	•	30		·	-
ohanganj			5								(0)63		1		64	2		1
umhrawan		***		(d)46	1										47	1	€	
achhrawan	•••		6		(e)26										26		,	
ardoi	1		2					Fig. 1			(g) 8				8	,		
mrauta			3		3	2					(A)86	7		2	50			-
Total, tabsil Dirgbijai-	1	*	20	46	68			-			108	7	2	2	225	3	-	-
ne Bareli	2	1	20		135	_	1	_	-					_	_	_	_	-
	_		-				_			1	5	1	1	2	146	2	4	-
otal, tahail Rae Bareli,	2	1	20		135		1	-		1	5	1	1	2	146	2	4	-
hiron	•••		5		78			•••		(j)26					99	1		
areni	***	1	4		(k)144					1			***	1	146		***	
almau	2	(1)22	(m)13	-3 -2	194		1				3	•••		1	199	1	••	
otal, tabsii Dalmau	2	14	31		411		1	-		27	3	_		2	444	2		-
lokha			2		8					1 1	(n)65		1	_	74	2	_	-
arshadepur	***		4		4				(0)15	1	16	***		1	37			
alon	1		5		14	1	2	3	1	***	(p)95	1	1	1	119	1		を の の 日本
Total, tabsfi Salon	1	-	11		26	1	21	3	16	1	176	1	2	2	230	3		
otal, district Rae Bareli	6	15	82	46	630	3	4	3	16	29	292	9	5	8	1,045	10	4	-

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	•				М	uhamm	adan.							/K-
Khattri.	Kurmi.	Others.	Total of Hindus.	Rájput.	Pathán.	Salyid.	Shaikh.	Others.	Total of Muhammadan.	Christian.	Sikh.	Mixed.	Grand Total.	Remarks.
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
•	•	•	\$ 8	(b)22			3		25			14	77	(a) Pinhauna estate; (b) Bahua estate. (c) Tiloi, Shabman and Tikari estates.
	6		54								1.	3	58	(d) Kumhrawan Rája and his relatives.
(f)13	.3	-	48				1		1			9	58	(e) Kurri Sudauli and Rajapur estates. (f) Maurawan estate.
٠	1		14		1	2			3			6	23	(g) Chandapur estate.
		1	54		1	7	10		18			1	73	(Å) Chandapur and Siwan estates.
13	10	1	279	22	. 2	9	14		47		1	37	364	
	1/1		197		(i) 40	17	1		58	2	39	66	362	(i) Pahremau and Amawan estates.
	1		197		40	17	1		58	2	39	66	362	
•			111		.1				1		2	9	123	(j) Khiron estate.
			152		-	1	1		2		14	1	169	(k) Murarmau estate.
•		1	242		1	2	5		8		10	32	292	(7) Shankerpur estate; (m) mostly Mahájans.
_		1	505		2	3	6		11		26	42	584	
		1	87	***	4	6	3		13			10	110	(*) Tiloi, Tikari and Shahman estates.
		-	44		3				3	2		11	60	(o) Bara estate.
	2	1	138	2	5	(q)27	27	3	64	(r)20	-	85	287	(p) Nain and Tikari estates; (q) The Gardezi Saiyids; (r) Palmerlard estate.
	2	2	269	2	12	33	30	3	80	22		86	457	
13	13	4	1,250	24	56	62	51	3	196	24	66	231	1,767	

The chief land-owning caste is the Tilok Chandi Bais, whose in story has been told by W. C. Benett in his sketch of the Rae Bareli clans. Their nominal head is the Reja of Morar Mau, who at present owns the major portion of pargana Sareni. The whole estate, however, has been proposed for sale by the Civil Court on account of debts, and it is not likely that much will be saved from the impending crash. The younger branch of the family split up into two-the Saibasi and Naihasta Bais. The former are by far the most important. At their head is the Rana of Khajurgaon, and the great taluqdars of Simarpaha, Gaura, Korihar Sataon, Pahu, Chandaniya and Narindpur Charhar, who all pay over Rs. 20,000 of Government revenue, are of this sub-division, besides many smaller taluquars. They own the greater portion of tahsil Dalmau and a large share of Rae Bareli tahsil. The Naihasta branch, at the head of whom is the Raja of Kurri Sudauli, occupy the country along the Sai to the west of Rae Bareli, comprising the north-west of Rae Bareli pargana, the south of Khiron, and the south of Bachhrawan. The large talúqdárs of Simri. and Korihar Sataon belong to this sub-division. The territory of the Tilok Chandi. Bais thus includes the whole of Dalmau tahsil, the west and south of Rae Bareli Tahsil, and half of Bachhrawan pargana. In Inhauna, Rokha and Salon there are some Bais families, locally known as Kath Bais, and not recognised by the Baiswara clans. The taluquars of Panhauna belong to this caste, but it is small in numbers and importance; altogether Bais hold 37.81 per cent. of the total area of the district. There are few Bais communities, and the almost exclusive proprietorship of the Bais taliquars in the area which came under their influence is good evidence of the power they enjoyed in less peaceful times. They are nearly all free from serious debt.

The Kanhperias.

43. Next to the Bais the most important clan is that of the Kanhpurias, who hold the lion's share of Dirgbijaiganj and Salon tahsils. There are six taláqdárs of this clan, their chief the Rája of Tilei, the Rája of Chandapur, the Rája of Shahmau (a personal title), the Babus of Tikari and Nur-ud-dinpur, and the taláqdár of Siwan. The Tiloi Rája holds property also in Partábgarh and Sultánpur, and is the largest land-owner in the district. The parganas of Mohanganj, Simrauta, Hardoi, Rokha and Parshadepur are to a great extent owned by these taláqdárs, while 94 villages in Salon and Parshadepur are held by the Kanhpurias of Nain, who only failed to obtain a sanad because their estates were held in common. As is the case with the Bais, cultivating proprietary communities of this caste are few. Altogether Kanhpurias hold 22.4 per cent. of the whole.

Other Hindu proprietors.

44. Among other Hindu proprietors may be noticed the Ammethiya Chhattris, who hold the greater portion of Kumhrawan pargana, the Januar taluqdars of Khiron, the Kayasth taluqdars of Hardaspur in Rae Bareli, the Khattris of Maurawan in Unao, who hold a large area in Bachhrawan and Hardoi on permanent settlement, and the Kurmi proprietary communities of Bachhrawan, Hardoi and Kumhrawan.

Musalmán proprietors.

- 45. The only Musalmán proprietors of importance are the talúqdárs of Pahremau and Amawan in Rae Bareli, whose estates formed a buffer between the Kanhpuria country on the north and the Bais on the south, the talúqdárs of Bahua in Inhauna, and of Binohra in Rae Bareli, the Gardezi Saiyids of Salon pargana, and the talúqdár of Azizabad, whose family got together a considerable estate by the help of their hereditary office of kanúngo. All these families, with the exception of Bahua, which has been just cleared of debts after 25 years' management under the Talúqdárs's Relief Act, are fast losing their estates owing in the case of Pahremau to sub-division and internal disputes, and in the case of the others to reckless extravagance. Besides the large proprietors there are many struggling Musalmán communities all over the district and 12.94 per cent. of the total area is owned by that caste.
- 46. A feature almost peculiar to the district is the large number of villages owned therein by Government grantees. This is due to confiscation after the mutiny

The grantees

of the estates of Rana Beni Madho and of his follower Bhagwan Bakhsh of Nain, and of half the estate of Rája Jagmohan Singh of Chandapur. The former estate, which was considerably larger than that held by Rana Sir Shanker Bakhsh, was allotted principally to Shahzada Shahdeo Singh, a political détenu of the Panjáb royal family, to three Sikh sardars, brothers, whose families now reside at Rae Bareli, and to Major Orr and Captain Bunbury, who were formerly of the King of Oudh's service, and were subsequently employed under our administration, in lieu of pension. The estates granted to these two gentlemen were sold some years ago. Even after this distribution many villages were left to be granted to individuals as rewards for good service. The estates of Bhagwan Baksh were allotted to the Babu of Tikari, for what reason I have failed to discover. The confiscation of half the estate of the Rája of Chandapur took place some years after the mutiny on grounds the justice of which was much doubted locally. The villages were all granted to individuals for good service. The grantees are locally known as "Khair Khwah."

Their intrusion as was to be expected was very much resented by the village occupants, who themselves in many cases laid claim to the proprietary right, and, as they frequently do not belong to the class with whom land holding is an hereditary occupation, constant friction is still but too often the result. Some of them, however, live among and are popular with their tenantry, and their estates being small enough to admit of personal management, some of the best landlords in the district are numbered in this class.

47. The only other estate which seems to require mention here is an estate containing 21 villages in Salon and two in Parshadepur pargana. They originally consisted of jungle belonging to the neighbouring villages, and were marked off and granted to Mr. Palmer, when it was desired to open up the country after the mutiny, under Lord Canning's rules of 1858. Mr. Palmer subsequently bought the fee-simple of the estate, which is therefore only assessed for cesses. The management has been most liberal and enlightened, secure irrigation being provided throughout, so there was some difficulty in deciding how large a portion of the present rent-roll should be exempt from assessment as due to improvements of the landlord. A dispute with Government is at present pending concerning the alluvial mahal Pura Khub Chand new cachar, which is asserted by the proprietors to be a portion of the fee-simple estate. It has been assessed to revenue in the same manner as other temporarily-settled alluvial mahals by the orders of the Board.

48. The following table shows the description of proprietary tenures by tahsils for the whole district. Details of castes and parganas will be found in Appendix IV:—

The Palmerland estate.

Proprietary tenures.

Tabsil.	Talüqdéri Khales,	Sub-settled.	Single zamíndári.	Joint zamíndári.	Imperfect pattidári.	Perfect pattidári.	Blisiyachara.	Miscellaneous property.	Government property.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Dirgbijaiganj { Area Per cent	184,286 61.88	11,469 3.85	22,749 7·64	26,214 8·89	40,369 13:56	1,786	8,770 2-94	1,336 -45	833 -28	297,812 100.00
Rae Bareli { Area Per cent	163,999 68.99	9,287 3:90	23,368 9.82	20,696 8-70	14,352 6.03	2,186 ·92	564	241 ·10	3,086 1.30	237,779 100-00
Dalman {Area Per cent	239,376 79:28	12,663 4·18	17,969 5.94	12,958 4·28	16,579 5·47	1,673	19	210	726 :24	302,173 100·00
Salon { Area Per cent	92,361 32.77	24,496 8 69	45,904 16-29	50,605 17:96	57,057 20:24	9.737 1·33	3,815 1·34	3,163 1·12	739 •26	281,871 100·00
Total {Area	680,022 60.73	57,915 5·18	109,990	110,473 9-88	128,357 11:47	9,382	13,168 1·18	4,950	5,878 ·48	1,119,635 100·00

49. Thus over 60 per cent. of the total area is held by talúqdárs as khalsa and a little more than 5 per cent. is held by sub-settlement holders who pay through talúq-dárs. The remaining 35 per cent. is divided between the single and joint zamindári tenures and imperfect pattidári in fairly equal proportions. The bhaiyachára tenure is rare, but is found to some extent all over the district. It mostly prevails in large Kurmi communities, and in these cases would seem to be originally much the same as the ryotwari tenure of Southern India. Miscellaneous property consists principally of resumed muafi plots, and of scattered fields and groves sold by needy members of proprietary communities. The owners are almost always resident, and there is little difficulty in realising the revenue from them. Government property includes one considerable village, Ahmedpur nazúl, included in Rae Bareli Municipality, and small village adjoining it Gurwa Gadiana. The rest consists of sites of buildings, compounds, nazúl plots, &c., owned by Government. The settlement records have been carefully compared with the tahsúl registers of Government property, and the entries are believed to be accurate.

The tenaucy laws

50. It will be in my opinion a lasting matter for regret that the opportunity given by the first regular settlement, when permanent proprietary and under-proprietary rights were conferred by Government on those considered best entitled to them, was not taken advantage of to secure to the hereditary cultivator at least, or to confer on him, the right to cultivate his holding on the payment of a fair rent. The occupancy rights which the talúqdárs agreed to grant to dispossessed zamíndárs after considerable discussion affected but a minute proportion of the tenantry, and the rest were left to the mercies of proprietors. Notices of ejectment in the years from 1865 onwards were served in enormous numbers, and I have heard that the decision of the objections to these notices occupied the district staff the greater portion of the hot weather. Rents were gradually levelled up, and there is no indication that the anticipation of the introduction of the new Rent Act caused any specially large enhancements to be made. The Act did great good by securing to existing tenants and to persons hereafter admitted to a tenancy fixity of tenure and of rent for seven years, and prescribing a limit to the enhancement which could then be imposed. But it allows no rights whatever to the heir of the tenant, except to continue undisturbed for the unexpired portion of the seven years tenancy. At the end of that time he can be ejected by notice on plain paper, unless he agrees to pay the competition rent which may be demanded from him. The statutory period of seven years could not expire for any tenancy before 1893. The progress of settlement operations and the successive bad seasons have up to the present retarded enhancements, but there is no doubt that at the first good opportunity proprietors will attempt to pass on to their tenants a part of the enhancement imposed on them, and that then for the first time the provisions of the Rent Act will be put on their trial. In view of the importance of the subject, I venture to repeat the following extract from the Revenue Administration report for 1895-96:-

"Notices under section 48 issued to eject the heirs of statutory tenants were as follows for each of the past three years:—

1893-94. 1894-95. 1895-96. 141 210 243

They may be expected to rise steadily in the future, as the provisions of the law become better known. At present the great majority of the land-owners of the district and almost all the tenants are unaware that the rent of the heir of a statutory tenant can be enhanced to any extent, or he can be forced to leave his holding. In many cases in which the enhancement exceeds one anna in the rupee, I have had petitions from the tenants for reinstatement, piteously stating that their forefathers had always held the land and how should they be treated in the same way as tenants whose holdings were of recent date. There is little doubt that the provisions of section 48 fall very hard in individual cases, and I think it is a pity that a full court-fee is not payable on ejectments under this section. In connection

with this point I might mention that there appears to be some doubt as to whether if the proprietor does not exer ise his power of ejectment under section 48 or of enhancement under section 49 within a reasonable time after the death of the tenant or the expiry of the statutory period, a new statutory period begins to run in favour of the heir or not. If no new period begins to run, the position of the heir (and all heldings in the province must be affected seoner or later) is in no way better than that of a sub-tenant. He can be told to quit or to pay an impossible amount at any time which suits the landlord's pleasure. If, on the other hand, a new statutory period begins to run from the date of the tenant's death, if the statutory period had previously expired, or if it had not previously expired, from the date of its expiry, then some reasonable time should be fixed during which the proprietor should be able to apply for enhancement, This also is an evil as it forces the proprietor into court, unless he is willing to give up his right to all enhancement for seven years; but if the provisions of section 48 are to remain law, some such provision appears absolutely necessary."

51. It is hardly too much to say that in a purely agricultural tract the happiness of the great mass of the people depends on the consideration or otherwise with which they are treated by the owners of the soil. Where there are small resident landlords matters in dispute between them and their tenants are usually amicably settled without the interference of the courts, though there are some small zamindárs, mostly Mahomedans, who habitually oppress their tenants. But the greater portion of the district is owned by large non-resident landlerds, who are chiefly tabuquars. These men are a great help in local administration, and are politically important. Local influence is what they chiefly prize, and it is necessary to secure it to them. How to do so without reducing the tiller of the soil to absolute dependence on every whim and caprice of the andowner appears to me to be the great problem of Oudh administration. (The greater portion of the Oudh tenants are still of a submissive race, and almost come up to Mr. Irwin's definition of the 'good' tenant as he appears to the Indian landlord-"one who is ready to live on one meal a day, and, in native phrase, to sell his wife and children rather than fail to pay the highest possible rent for his holding; who submits unquestioningly to any cesses it may please his landlord to demand; and who is always willing to work for him without payment; to give evidence for him in court, and, speaking generally, to do any conceivable thing he is told." But they are learning to assert such rights as they have. During the 40 years of British occupation there has been very much titigation between landlord and tenant. A dispute arises, and is taken to the courts, everyone in the village becomes a partisan. Of course after the production of a large amount of false evidence, the matter is settled, but the relations between the parties and many others have been permanently embittered, and confidence has been destroyed. Each such case diminishes the number of 'good' tenants and the local importance of the taluquar. At the present settlement many taliquare finding their influence vanishing attempted to prevent the entry in the record-of-rights which had been always enjoyed, not as a rule in order to appropriate such rights themselves, but to retain their power over the holders of the rights. Such disputes were usually connected with rights to water or to trees, and many of the claimants were mere statutory tenants. These men hold, as I have shown by a most precarious tenure, and can only assert any rights they may have at the risk of losing their land, their only means of livelihood. If a man is ejected his occupation is at once gone. He has probably lost most of his property in his effort to retain his land, and even if he is fortunate enough to secure a small holding in another village, it is at the cost of leaving home and connections, while many years must pass before he can regain his position. It is strange to note the elaborate laws by which the rights of various descriptions of tenants are guarded in the sparsely populated districts of the Central Provinces where competition is still for tenants and not for land, and to compare the position of the hereditary tenant there, or even that of the occupancy tenant of Bundelkhand, where land is to

Relations between land lord and tenant.

be had for the asking, and disputes between landlord and tenant are rare, with the position of the hereditary tenant in Oudh. We have opened the courts to disputes between landlord and tenant, and so inevitably created ill-feeling between them, but in the last resort one of the parties, the tenant, is found to have practically no rights. It seems to me that we have gone too far not to go further and that there is no middle course between affording real security of tenure, and practical non-interference such as in the semi-independent Bundelkhand states or in the "istimrari" estates of Ajmere. The Rae Bareli taláqdárs are nearly all hereditary chiefs of clans, not upstarts. They have the reputation of being good and considerate landlords, and on the whole I believe the reputation to be deserved, but there are few taláqdár has unscrupulously used every means in his power to overthrow a tenant who crossed his will. As rights become better know the number of such tenants will surely increase and dissatisfication with the present state of things be extended.

CHAPTER II.

FISCAL HISTORY.

52. Attention has been recently directed to the revenue system of the Mughal empire and the share of the produce taken by that Government. Materials for a useful comparison appear to me to exist in the case of Rae Bareli. By far the greater portion of the present district was included in the Manikpur Sarkar of the Oudh Subah in the Mughal empire. The existing pargana of Inhauna (Oudh Subah), and parts of Kumhrawan, Bachhrawan, Sareni and Khiron (Lucknow Sarkar) were included in the Oudh Subah, while the present district omits on the east a considerable portion of the Manikpur Sarkar, including Manikpur itself, which now forms a portion of the Partábgarh district. The total area of Rae Bareli · district is probably somewhat smaller than that of the old Manikpur Sarkar. The latter is said to have had at the time of Raja Todar Mall's survey during the reign of the Emperor Akbar a cultivated area of 666,222 standard bighas.* The revenue assessed on this in the 10-years' settlement was Rs. 8,47,913.† The cultivated area of the present district is 922,052 bighas and the full nominal revenue now imposed Rs. 16,07,628. This gives an incidence per cultivated bigha which bears to the present incidence the proportion of 73 to 100. But judging from the prices of grain given in the Ain-i-Akbari, and the usual pay of grassoutters, Re. 11, of syces and bhishtis, Rs. 21, of sweepers, Re. 15, the purchasing power of the rupee was at least double what it is now, and the revenue of the Mughal empire at least 40 per cent. higher. It was estimated on quite other grounds by Colonel Macandrew, who carried out the first regular settlement of the district, that Akbar's settlement fell at about 10 annas in the rupee on the rental. This corresponds to a percentage of 62.5 as compared with the present nominal percentage of 50. But the real proportion of the assets taken in the present settlement is certainly not over 45 per cent.; and from this calculation also the revenue of those days would seem to have been about 40 per cent. higher.

If the Mughal settlement be taken at 10 annas in the rupee on the rental of the day, the latter would amount to about 13½ lakhs, while the present rental of the land included in the Sarkar is 18 to 20 lakhs. It is obvious, therefore, that rents have not risen to nearly the same extent as the value of produce, and that increase of population and of the labour and expense required to produce a given quantity of grain have resulted in a larger proportion of the produce being retained by the actual cultivator.

53. This assessment seems to have continued until a separate Government was established at Lucknow. The subsequent fiscal history of this portion of the province is ably discussed by Colonel Macandrew in paragraphs 33 to 93 of Appendix K to the first regular settlement report of the district, and it is unnecessary to do more than refer to it here. At annexation the taluquars, whose influence and power had increased pari passu with the decay of the Central Government, were found to have obliterated to a great extent subordinate rights in many villages outside their ancestral estates, and to be actually in possession of the greater part of the country. Engagements for the payment of revenue were taken from them wherever they were found to be in possession; but it was given out that an inquiry into rights was to be at once set on foot as an integral part of the summary settlement. The assessment was then fixed on the basis of the last jamas of the Nazim's settlement. "In the meantime the promised inquiry into rights began, and it soon became evident in

Subsequent fiscal history.

Assessment Mughals,

^{*}Taking the Ellahi gaz as 33 inches, Akbar's bigha was identical with that now in common use, having a side of 55 yards.

⁺The dam is taken at one-fortieth of the rupec. If, as some writers assert, it is really one-twentieth, the above figure would be doubled, and it is impossible to imagine whence such a high revenue could be paid.

what a spirit it was conceived. The principle was laid down that the "taluqdars" were interlopers of Government creation, and had no right whatever in the soil. All claims against them were encouraged, no term of limitation was fixed, and in more than one instance they were stripped of villages which they had enjoyed for a hundred years. They were much worse treated than their brethren in the North-West, who received an allowance under the name of "malikana." In Oudh they were considered sufficiently provided for when left in the possession of those willages in which, notwithstanding all the efforts of the Deputy Commissioners and an indefinite extension of the term of limitation, no claimants whatever could be found. Of all villages in which people claiming to be descended from ancient proprietors were found, they were wholly dispossessed, no matter what the status of the old proprietor might actually be."*

The first summary settlement. 54. The extent to which certain of the district taluquars were deprived of estates of which they were in possession, and for which they subsequently received sanads, is shown in the following table:—

Name of taluq	d6r.		Name of taluqa.		In taluga before	Settled with taluqdárs in 1264F. (first summary settlement)	Settled with them in 1266 F. (after re- bellion).
Rája Digbijai Singh	***	***	Morarmau	***	83	67	83
Rána Beni Madho	***	***	Shankarpur	***	233	110	Nil.
Rána Shankar Bakhsh	***	***	Thulrai Khajurgaon	***	132	65	131
Thakur Ajodhia Bakhsh.	***	***	Narindpur Charhar	***	39	19	39
Thakurain Achal Kuar	***	***	Gaura	***	56	Nil.	56
Sarda Singh	***	***	Hamir man Kola	***	33	17	32
Jagannath Bakhsh	***	***	Simri	***	28	1	23
Raghunath Singh	***	***	Khiron	***	22	. 5	22
Musammat Gulab Kuaz	***	***	Udrahra	***	1/2	2	12
Rája Hindpal Singh	***	***	Kurri Sudauli	***	26	2	26
Fatch Bahadur Singh	***	***	Kurihar Sataon	***	30	10	29
Jagmohan Singh	***	***	Girdharpur	***	14	9	13
Zulfikar Khan	***	***	Pahremau		21	17	17
Thákur Bakhsh	***	***	Rahwan	***	23	19	28
Fakhrul Hasan	***	***	Binohra	***	15	2	15
Baijnath Singh	***	**	Hardaspur	***	9	4	9
Bishunath Singh	***	***	Pahu	***	7	2	7
Rája Jagmohan Singh	***	***	Kumhrawan	***	27	14	27
Babu Sheombar Singh	***	***	Usah	***	19	. 8	19

The rebellion.

55. Then occurred the rebellion, and the taluquars resumed their position without resistance on the part of the people. In the spring of 1858 the land was as fully cultivated as ever, and the people seemed everywhere to acquiesce in the reassumption of possession by the taluquars. The latter ensconced themselves for the most part in their forts, and paid no revenue to the rebel Government.

I again quote Colonel Macandrew:—"In the middle of March 1858 the city of Lucknow was taken, but the rebel Government having retired across the Gogra, was left there unmolested for the rest of that year. In the meantime the famous confiscation proclamation was issued, and there can be no doubt that the proclamation and the continued presence of a rebel Government on the soil of Oudh, by exciting, the one the fears, and the other the hopes of the taluquare, tended to prolong their attitude of rebellion, and greatly to increase the difficulties of the Government of Oudh."

"It was then announced that the object of the Government was rather to confiscate the rights or hopes created by our proceedings after annexation, and that it was now intended to return to the state of property as it existed on the annexation of the country. The proprietary titles of the taluquars were to be recognized, and they were to be put in possession of the estates they held in the beginning of February 1856. Certain persons who had been concerned in the murder of Europeans were excepted, but all others were invited to come in and receive their estates with a

^{*} Last Settlement re port, Appendix K, paragraph 96.

title from the British Government, unless they had been conspicuous rebels. Later, Her Majesty's Gracious Proclamation and Amnesty were made public, and the exceptions were confined to murderers of Europeans only. All others who surrendered before the 1st January 1859 were pardoned."

"Under these proclamations and promises many of the taluquars came into Lucknow and engaged for their estates, and were immediately sent back to them with orders to establish police posts in the name of the British Government. Such revenue as they had paid to the rebel Government was forgiven them; but they were considered liable for all unpaid arrears. Several military columns were also sent to various parts of the province, and the country was partially brought into order and a good deal of revenue collected; while all the endeavours of the rebel Government to collect revenue, except in the country actually occupied by its troops, were completely frustrated."

In November 1858 the Commander-in-Chief set out from Allahabad, and after receiving the submission of the Raja of Amethi turned westwards to dispose of Rána Beni Madho, whose stronghold of Shankarpur was situated in the north-east corner of pargana Dalmau, and who was in possession at that time of the whole of the southern half of the district. He was driven westwards to Dhundhia Khera, and by the 21st November civil jurisdiction was fairly re-established.

56. Rae Bareli was made the headquarters of the district formerly known as Salon, and the summary settlement operations were at once begun. These were carried out with little difficulty, the principle being that the persons to be engaged with were those who were in possession at the time of annexation, and the amount of the revenue was to be the same as in the former summary settlement. This was easily discovered from the kanungos' records and from the kabuliyats held by the proprietors. The large estates of Rána Beni Madho and the property of Bhagwan Bakhsh of Nain were confiscated, and were subsequently granted to Sikh pensioners of the British Government and to persons who did good service during the rebellion.

57. Of the thirteen parganas now comprising the Rae Bareli district, the following was the distribution at the time the regular settlement was made

The second summary settlement-

Former distribution of the parganas now forming part of the Rae Bareli district.

Pres	ent.			1	Form	er.
District.	Tahsil.		Pargana.	Tahsil.		District.
Bae Bareli	Rae Bareli Drigbijaiganj Salon Dalmau	: : : :	Rae Barcli Bachhrawan Kumhrawan Hardoi Inhauna Mohanganj Simrauta Rokha Jais Parshadepur Salon Sareni Dalmau Khiron	Rae Bareli Haidargarh Inhauna Mohanganj Mohanganj Salon Dalmau Behar		Rae Bareli. Ditto. Sultánpur. Ditto. Ditto. Partábgarh. Rae Bareli. Ditto.

58. The operations of the regular settlement were commenced at the close of The regular settlement. the year 1860 in Partabgarh and in Rae Bareli and Sultanpur a year later. The assessments of the three districts were made on different principles, and their condition at the time of the settlement also varied; and as the fact is important in view of the different rates of enhancement obtained in the present settlement, I proceed to describe the system shortly from the accounts given in the settlement reports and from the original statements showing how the assessment of each village was arrived at.

In Rae Bareli.

59. The Rae Bareli district at that time included the whole of Baiswara, and but little else besides. Even during the last troubled years of the Nawábi, the cultivators lived for the most part under the protection of powerful chiefs; and as the district was bordered by the Ganges for its whole length, there was an easy market for surplus produce. The country was well-developed, subordinate rights had been to a great extent wiped out and rents were higher than in the surrounding districts. The settlement was based as is well known on a corrected rentroll. A careful but simple analysis was made of the rents paid by different classes of tenants for different classes of soil land, being divided as follows:—

Sír khudkasht.

Sir sublet.

Bráhmans.

Chhattris.

Kurmis, Kachhis, Murais.

Others.

Rent-free land.

The rents paid for the sir and by the Brahman and Chhattri tenants was then compared with that paid by the Others, and if the difference was considerable the rents were usually slightly raised. Correction was made by the application of rates paid by ordinary tenants in the same village, though if the area was small usually no change was made. Rent-free land was also valued in the same way. Additions of 4 annas to 8 annas per bigha, according to its quality, were made for banjar, where the area was considerable, and grove land, where in excess of 10 per cent. of the total area, was assessed at 4 annas per acre, sayer income being left out of calculation. A full half of the assets so calculated was in each case taken and resulted in an increase of 24 per cent. on the summary settlement, and the heaviest assessment in Oudh.

60. This district was at the time of annexation but imperfectly developed. It was found by the Settlement Officer that during the years between the summary and the regular settlement cultivation had increased by one-fourth, rents had risen enormously and the size of the holdings largely diminished. It was plain, therefore, that at the time of assessment the district was in a transition stage. The system of assessment in force in the district is described in paragraph 26 of the Commissioner's review of the settlement report. It was practically this: the allover rate of the land held by ordinary tenants was applied to the total cultivated area, and the circle rent-rates were applied to each class of soil. The rental for assessment was fixed by the Settlement Officer on a comparison of the two amounts, and sayer items were also taken into account, though no definite sum was assessed on them. The Settlement Officer relied much on his pargana rent rates, which were the same for sandy and for clay-soiled villages. It is not surprising, therefore, to find that the former were assessed too high and the latter too low. The total enhancement on the summary settlement jama was 36.6 per cent, and, on the whole, not much less than half assets was taken, although the large rise in rents very soon made the settlement a light one.

61. In Sultanpur it appears that the taluquars were at the time of rebellion neither strong nor numerous, and the country was more disturbed and took longer settling down than in the other districts named. Taluquars and zamindars alike ran heavily into debt when the summary settlement at once imposed a regular demand, and by its permanent character as regards the person to be settled with enhanced the credit of the proprietor. Here also peace was followed by a large increase in cultivation, and the rise in rents was also considerable: so it is not astonishing that even with a settlement which took much less than half the existing assets, as I shall proceed to show, the enhancement on the summary jama was 38 per cent. The

In Partabgarb.

In Sultanpur.

system of assessment was briefly as follows. A corrected rentroll was framed by adding to the jamabandi valuations of sir and rent-free land, no addition being made for land held at low and favoured rentals. A valuation of each village was also made by applying circle or pargana rent-rates to the different classes of soil. "If the two came out pretty nearly together, the Settlement Officer generally took something off the mean as a margin for bad seasons and assumed what was left. If the rent-rates were a good deal the higher, the statement generally shows a deduction. Sometimes there were special causes for this, such as that the area of goind had been overestimated by the amin, or the village had a smaller proportion of irrigated land than usual, for in this pargana there were no separate rates for wet and dry land. In addition, from this, and also from the amount given by the rentrates in villages where there were no errors of that kind, he usually deducted 10 per cent. to be on the safe side, and sometimes made a still further deduction for bad seasons." As a matter of fact, it is shown by the statistics of Appendix A in the Settlement Report that the amount assumed as assets was about \$\pi4\$ per cent. only of the corrected rentroll, moderate as the latter was, and as nothing was added for siwai, it is evident that the assessment was a very light one in comparison with the mesets; but in view of the large enhancement on the jama formerly paid and the general indebtedness of the landholders, there is no doubt that the Settlement Officer exercised a sound discretion.

62. The expiring assessment has worked well, as was indeed to be expected from the careful system on which the Rae Bareli district was settled and from the lightness of the assessment on the parganas received from Sultanpur and Partabgarh. The district has always had a good reputation for punctuality in payment of the revenue demand, and for no less than 11 years in succession showed an absolutely clear balance sheet.

63. The processes used to realise the revenue, the actual balances of each year, and the character of the season for every year since the district has had the same boundaries as it has at present, are shown in the following table:—

Working of the expiring settlement.

Arrears and coercive pro-

	Yoar.	-97	Character of year.		Balance of current year.	Writs issued.	Arresta.	Attachment of morable property.	Sale of movable property.	Attachment of estate.	Settlement annulled.
					Rs.		100				
1869-70	***	***	Good		240	2,242			***		
1870-71			Fair		36,886	2,814	CHI C	***	***		***
1871-72			Poor	***	15,456	2,191	22	56	10	51	***
1872-73	***	***	Fair	***	15,982	1,964	23	27	16	12	***
1873-74	***	***	Do.	***	17,631	***	***	32	4	1	***
1874-75	***	***	Good		1,436	***	3	47	3	5	***
1875-76	***	***	Do.		2,725	1,395	1	# 65	5	4	
1876-77		***	Fair		200	1647	4	42	3	22	***
1877-78	***	***	Drought	and	66,191	2106	***	101	14	5	
7011-10			famine.	12.00					115000	100	
1878-79	***	***	Fair	***	326	1,305		69	3	. 8	***
1879-80	***	***	Good	***	601	1,323	***	57	***	1	***
1880-81			Drought	***	1,60,209	1,617	101	92		***	***
1881-82		444	Good	***		1,155		26	3	.,,	**
1882-83		***	Fair	***	713	864	10	24	1	***	**
1883-84	te rest		Good			520		18	1	3	
1884-85	***		Do.	***		238		8	***	2	
1885-86		***	Do.	***		641	***	17	***	2	
1886-87		***	Do.	***	***	594	***	2	***		
1887-88			Fair	***		549		12		***	
1888-89			Do.	***		480	***	24			
1889-90		***	Do.	***		630		18	***		
1890-91		***	Do.			772	-	40	1		
1891-92			Good	***		820	***	30	***	***	**
1892-93			Fair	•••	***	616	***	39	***	***	**
1893-94			Poor			599		23		***	1 .
1894-95		***	Bad	***	9,497	400	5	38		2	
1895-96			Fair	***	608	481	2	51	5	***	-
1896-97		•••	Drought famine.	and	4,84,905	439	2	26		5	1

Seasons of drought, 1877-78.

64. For the last 20 years it will be seen that the revenue has been realised with the greatest ease, and that the balances are trifling except in the years 1870-71, 1877-78 and 1880-81. The first was the year during which the Oudh Taluqdárs Relief Act came into operation, and the owners of the affected estates which were taken over forestalled the collections. 1877-78 was the year of one of the great famines of recent years in Upper India. The rainfall at the beginning of the season was so light that very little land was even sown, and the outturn of the kharif was practically nil. Prices went up as high as nine seers per rupee for gram and for wheat. Yet the people who had enjoyed good harvests for several years managed to exist, though no doubt greatly weakened, through the rainy season. On the 5th of October welcome and plenteous rain fell, which at once relieved the anxiety felt for the rabi sowings. Ploughing and sowing, and afterwards irrigating, gave full occupation to the labouring classes, but the prices of grain still kept up and acute distress began to be felt. In January 1878 occurred a heavy fall of rain which put an end for a time to the necessity for irrigation. The labourer's occupation was at once gone, he had no resources to fall back upon, and the distress turned immediately into samine. No time was then lost in starting relief works in several places in the Drigbijaiganj tahsil, the part most affected. The numbers on the relief works rose at one time to about 40,000: meanwhile the rabi, which promised so well, was in many parts seriously injured by rust, and it was not till 15 months had elapsed that the relief works were finally closed. In the south and west of the district the drought, though severe, had a much less serious effect. The millets yielded a partial though scanty crop, and it is probable that the cultivators were to a great extent reimbursed for their short produce by the excessive prices prevailing. In any case, rents in these tracts were collected practically in full. The arrears of land revenue were only Rs. 66,192, nearly all of which was recovered in the ensuing year.

1880-81.

65. In 1880 there was sufficient rain in July and August, after which came a prolonged drought. Only one-quarter of the rice crop is said to have been saved, and but very little of the other *kharif* crops, except where watered from wells. In October there was a slight fall of rain, but sufficient to allow *rabi* sowings to be made except in very stiff soils. Eighty-four per cent. of the usual area was sown, and with the return of favourable prospects all anxiety was at an end. The partial failure of this year was confined to a few districts. There was plenty of grain available for importation, and prices did not rise to an appreciable extent; distress among the labouring classes was never therefore very serious. On the other hand, the tenantry severely suffered. They had been put to great expense to irrigate their *kharif*, and lost most of it in the end, while the prices they got for their produce were hardly better than in ordinary years. Rents were therefore difficult to collect, and time was given for payment of revenue. The year closed with a balance of Rs. 1,60,209. This was realised approximately as follows:—

					Rs.
In 1881-82:		***	***	***	57,000
In 1882-83		***	***	***	1,02,000
In 1883-84	***		*	***	1,200
			Total		1,60,200

Bemissions unnecessary.

66. It is clear from these figures that the land revenue of the expiring settlement has been collected with facility and that, even when seasons of partial failure made the year's revenue impossible of realisation, remissions were not necessary, and it was paid up from the succeeding harvests. Coercive measures for realisation have been few and unimportant. Land is so valuable, and its produce on the whole so secure, that a defaulter has little difficulty in raising money to the full value of his property, and in case of collapse makes better terms for himself by private arrangement than he could hope for if Government were to proceed against his estate.

67. The demands of the summary and regular settlements are shown in the following statement as far as they can be ascertained:—

Demand of the several settlements compared.

	Name of pa	rgana.		First summary settlement, 1856.	Second summary settlement, 1858-59.	Regular settlement, 1865-67.	Revenue in the year of survey.
1. 2. 8. 4. 5. 6.	Inhauna Mohanganj Semrauta Kumhrawan Hardoi Bachhrawap	**************************************	···	Rs 42,507 14,529 49,304	Rs. 44,118 43,504 47,238 30,923 14,579 49,334	Rs. 66,484 52,811 61,771 53,717 19,798 69,607	Rs. 66,402 52,810 61,716 67,191 19,630 67,378
٠.	Tahsff Drigbi	jaiganj	***		2,38,696	3,24,188	3,25,127
7.	Tahsil Rae Bareli		***	1,80,937	2,06,357	2,58,825	2,53,220
• 9. 10.	Rhiron Sareni Dalman	***	1 	91,125 77,445 1 86,027	77,780 72,670 1,48,442	89,296 88,102 1,91,442	90,718 89,465 1,99,821
	Tahsil Dalmau	***	***	***	2,98,892	3,68,843	3,80,004
•11. •12. •13.	Rokha Parshadepur Salon	***		***	73,309 28,700 1,01,963	1,00,762 39,683 1,51,907	1,00,252 89,592 1,48,168
	Tahsi	l Salon	***		2,03,972	2,92,332	2,88,012
	GRAND	TOTAL		***	9,47,917	12,39,188	12,46,363

It has not been found possible, without an expenditure of time and trouble out of all proportion to the value of the information to be obtained, to reconcile in each case the difference between the revenue as fixed at last settlement and as collected in the year of survey. The differences are in most cases small and are due to remission of revenue on account of land appropriated by Government and to resumption of muafis. In Dalmau and Sareni the difference is large, and is due in part to the reassessment of alluvial maháls. In Khiron a considerable increase is shown owing to the resumption of muafis. Salon shows a decrease because the nominal revenue, some Rs. 6,000, of the Salon endowment was wrongly included at last settlement. As a matter of fact, the jama of the pargana has increased by about Rs. 3,000 owing to resumption of muafi plots in Jais and other places. The large increase in Kumhrawan is due to the resumption of muafi villages on the death of Rája Jagmohan Singh of Sheogarh, and the decrease in Bachhrawan to the remission of 10 per cent. on the jama in the estates of the Morawan Khattris in that pargana, on account of their services in the Mutiny.

68. I have found very great difficulty in getting accurate information on this point. Mutations began in the district in 1874, but no registers were kept up until 1881A.D. I accordingly made an attempt, by having the *khewats* of the present and former settlements examined, to find out what transfers had actually taken place between the two periods, but I was transferred before I could complete the work, and the statement made up for me seemed so unreliable that I have not included it in this report. I have, however, obtained figures for the 12 years 1884 to 1895 from a careful examination of the registration records, and I believe them to be accurate. Care has been taken to prevent double transfers being shown twice. The statement is given as Appendix VI, but its most salient points are abstracted below. The percentage of the area sold to the total area of each class of tenure is as follows:—

	Taluq	dári.				
Period.	Khalsa.	Sub-settled.	Single zamín- dári.	Coparcenary.	Total,	Remarks
1884-89, 1890-95	·3 ·4	2·9 3·4	2·8 4·6	3-8 5-6	1·4 2·2	
Total	-7	6.3	7.4	* 9.4	3.6	

Transfer of proprietary rights.

The percentage of area of each class mortgaged by registered deed during the same period is shown below:—

		Talu	kdári.				
Period	L	Khalsa.	Sub-settled.	Single zamín- dári.	Coparcenary.	Total.	Remarks.
1884-89 1890-95	:::	1-7 1-2	18·5 5·8	9·9 1·6	11·6 9·0	5·7 3·4	ur e eus
Total		2.9	24:3	11.5	20.6	9.1	

A statement abstracted from the mutation registers for about the same period, omitting second transactions for one and the same area, gives a very similar result. It has been printed as Appendix VII. A third statement showing the distribution of proprietary castes and tenures at the last and present settlements is printed below. It will be convenient to consider them together.

				Last sett	tlement.							Prese	nt settlem	ent.			
	Taluqd	lári.							Taluq	dári.	•		1.			·	1 1 1 1 1 1
Caste.	Khalsa.	Sub-settled.	Single zaminderi.	Joint zamindári.	Imperfect pattidări.	Perfect pattidari.	Bhaiyachára.	Total.	Khalsa.	Sub-settled.	Single zamíndári.	Joint zamíndári.	Imperfect pattidari.	Perfect pattidari.	Bhaiyachára.	Miscellaneous property.	Total.
I,—Hindu— Ahir Baniya Bhat Bráhman (including Bengali), Chattri, Amethia Bais Gautam Janwar Kanhpuria Others	2,313 219 11,690 21,842 321,110 4,026 9,628 156,188 1,968	3,831 424 26,376 4,114 776 21,641 1,643	599 402 10,317 3,130 6,349 1,188 5,916 5,243	65 7,114 4,251 27,792 990 1,028 11,312 7,566	49 13,262 767 30,419 1,781 3,075 47,932 5,531	279 377 377	240 462 2,306 	600 2,912 735 46,733 30,876 414,729 10,911 15,695 258,015 21,351	9,243 22,529 344,151 3,844 11,389 168,601 1,589	205 6,054 869 22,992 1,706 423 11,216 3,479	456 4,198 14,539 1,140 12,820 358 1,572 11,591 5,945	569 893 61 12,804 3,031 15,496 562 1,865 13,049 5,190	1,669 88 15,154 4,399 22,426 2,368 2,424 42,037 5,936	2,021 684 2,133 559 154 2,176	298 647 2,836 1,307 74	8 100 6 539 179 431 25 78 774 74	1,033 7,066 155 60,652 33,478 423,285 9,422 17,905 250,751 22,291
• Tetal, Chhattri	514,162	54,974	21,826	52,989	89,505	9,583	3,588	746,577	552,103	40,685	33,426	39,193	79,590	5,710	4,864	1,561	757,132
Fakir (including Goshain) Kalwar Kayasth Kbattri Kurmi Others	165 1,214 5,675 14,817 4,890	306 5,622	1,841 225 8,184 1,375 1,183	432 12,047 4,686 270	251 9,889 976 6,396 639	2,189 	365 2,542	2,044 2,122 38,105 17,168 24,136 2,092	6,011 19 997 2,946	178 20 1,563 826 4,401 641	2,314 3,361 7,156 121 180 2,135	125 47 12,473 1,141 2,685	12 73 9,907 1,460 4,146 61	267 297 418	 915 2,494 1	39 3 611 19 27 242	2,668 3,514 38,903 22,423 15,632 6,133
Total, Hindu	555,145	64,733	45,902	78,153	120,467	12,051	6,773	883,224	5,90,300	54,583	67,886	69,941	112,160	8,713	8,573	3,155	915,311
II.—Musalman— Rájpet Pathan Syed Sheikh Others	8,715 26,698 13,231 10,305 5	436 4,771 160	14,208 21,130 8,200 691	4,992 10,021 14,651 7,361 610	5,111 1,139 2,054 5,136 546	106	1,762 44 1,424 1,293	20,580 52,546 57,367 31,162 3,145	8,896 19,785 10,907 5,778	1,299 1,202 831	227 4,146 20,329 11.851 3,031	3,436 13,101 5,322 11,574	5,038 555, 3,445 6,734 352	 .580 40	3,087 10 1,232 259 7	168 45 1,263 301 16	20.852 38,941 44,280 37,368 3,411
Total, Musalman	58,954	5,367	44,229	37,635	13,986	106	4,523	164,800	45,366	3,332	39,584	33,438	16,124	620	4,595	1,793	144,852
III,—Christian IV.—Sikh V.—Government property	22,338 32,009 1,312	72	2,074 642 2,176	4,896 203 892	1,048 100 378	 10	9	30,356 32,954 4,849	44,356 1,976		384 2,136 2,355	6,046 1,048 275	73 523	 49 - 58	 39	 2 16	6,430 47,664 5,378
GIAND TOTAL	669,758	70,172	95,023	121,779	135,979	12,167	11,305	1,116,183	681,998	58,051	112,345	110,748	128,880	9,440	13,207	4,966	1,119,635

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Comparative position of the different tenures. 69. It will be seen that the taluqdárs have, as a whole, improved their position during the currency of the settlement. This is especially noticeable in the case of the great Bais, Kanhpuria and Sikh taluqdárs. The fine estates granted to Major Orrand Captain Bunbury were on their sale promptly snapped up by them, and they have also gained considerably at the expense of the village communities. On the other hand, the Musalman taluqdárs, owing to the downfall of the Pahremau and Amawan estates, have suffered heavily. The single zamindári tenure shows an increase which is principally the effect of perfect partition. The four descriptions of coparcenary tenures taken as a whole show a decrease chiefly from the same cause. The sub-settled area has declined considerably, and most of the deficiency is no doubt due to the ejectment of sub-settlement holders by the taluqdárs. This has been specially the case with the permanent lessees in the Kurri Sudauli estate, where hardly any holders of this description of tenure are still left. Miscellaneous property consists mostly of groves and scattered plots which have been sold outright to a person who is not a sharer, or of fields reserved by a cosharer on the sale of his rights.

Comparative position of the different castes. 70. Turning now to the different castes, it will be seen that the largest gainers are Bráhmans. Nearly all the large money-lenders are Bráhmans, and they have gained especially in Dalmau tahsíl at the expense of their poorer neighbours. Baniyas, whose operations are on a smaller scale, have also gained considerably, having more than doubled the area they held at last settlement. Among Chhattris the acquisitions of the large taluquars have more than counterbalanced the losses of the village communities. Kurmis, the only class of real cultivating communities in the district, are shown to have lost considerably, but some special cause must be at work here, for, as a rule, they are a frugal and flourishing race. The area held by Musalmans has decreased largely in spite of the gains of certain individual vakils, and Musalman villages, as a rule, seem much more impoverished than their Hindu neighbours.

Sale price of land.

71. If any further proof is required of the fairness and moderation of the expiring settlement it will be found in the sale price of land as recorded in the registration entries. The average price was between 1884 and 1889 26½ years' purchase of the land revenue, and in the next period nearly 30 years' purchase. These figures are no doubt somewhat higher than they should be, owing to the fact that the sale price entered in deeds is often composed in great part of sums due on the balance of account, and money does not pass to the full amount. However, Court of Wards experience shows that the value of land in the district varies between 22½ and 27½ years' purchase of the net profits, which are in the majority of cases about equal to the land revenue.

Unrestricted right of transfer.

72. From a consideration of the statements here given, and a considerable experience of the circumstances of the landowning classes in this district, the following conclusions appear to me to be established. Land has not as yet actually changed hands to any alarming extent. The number of mortgages, however, in coparcenary and sub-settled estates is excessive, and, taken in conjunction with the losses occasioned by the famine of 1896-97, is likely to lead to large transfers within the next few years. For the large area held in underproprietary right under decrees for scattered plots, I have been unable to obtain reliable figures: but it is notorious that transfers here have been still more numerous than in full proprietary estates, and on coming to settle the rents for these plots I found a very large proportion were mortgaged. I am decidedly of opinion that the time is ripe for some limit to be put to the unrestricted power of alienation now enjoyed. On the one hand, it is not too late to preserve to the great majority of the landowning classes their hereditary estates, and, on the other hand, they must have seen sufficient of the distress and discontent brought about by the loss of rights in the case of others to appreciate to some extent any efforts which Government may make on their behalf. At the same time there is little doubt that any measure restricting the full right of alienation would be

 generally unpopular, and would be opposed tooth and nail by the most influential section of the community. Taluqdárs are the principal buyers of land in the district.

After them, but with a long interval, come the large Brahman money-lenders, the small Baniya mahajans and the professional classes. Agriculturists who are also money-lenders are buyers, but not to a great extent.

CHAPTER III.

COMPARISON OF THE PRESENT CONDITION OF THE DISTRICT WITH ITS CONDITION AT LAST SETTLEMENT.

Comparative statistics.

73. Statistics of cultivation and of irrigation have been given in Chapter I. The table in Appendix I compares them for each pargana with those of last settlement, but an abstract is given below for reference:—

		100	200	Not as	sessable.						A	ssessable,				
								Unc	ultivat	ed.	H . W	C	ultivated	.		
District.	Period.	* * Total area.	Village site.	Under water.	Otherwise barren.	Total.	Groves:	Culturable waste.	Old fallow,	New fallow.	Total uncultivated.	Irrigated.	Dry.	Total cultivated.	Irrigable.	Total assessable,
Rac Bare'l	Past Present Present	acres. 1,116,183 21,119,635 100	27,600 28,919	90,718 9°8		247,273		182,443	30,629 56,137	15,949	acres. 305,107 296,099 27'3 26'4	acres. 420,641 264,868 37.7 23.7	acres. 144,211 311,375 12.9 27.8	acres. 564,852 576,263 50-6 51-5	acres. 420,641 422,756 37-7	

Change in total area.

74. The total areas for last settlement are those of the field survey, to which have been added the areas of the jungle grants as found at the revenue survey. The total area shows an increase of 3,452 acres, of which 3,094 acres are due to alluvion, chiefly in pargana Dalmau. The land acquired is almost entirely river sand, which has been deposited on this side of the deep stream; the remaining difference, 358 acres, is small, and is probably due to neglect of fractions in totalling.

Changes in uncultivated area.

75. The area shown as covered with water is less than it was, partly because cultivation has slightly extended by banking up jhils and filling in depressions, and partly because a more minute survey at this settlement has distinguished the embankments or raised lands (bhithas) bordering on or situated in jhils from the area which is usually covered with water. It is satisfactory to find that the area of grove land, always considerable, shows no falling off. Even the present bad seasons seem to have little effect in stimulating the conversion of trees into hard cash, and it has come under my observation several times that underproprietors have preferred to have their groves put up to auction rather than to clear themselves of debt by cutting and selling the trees. The greater portion of the groves are of mangoes, which the Hindu is forbidden to cut down, while the mahua trees, of which the remainder consist, are too valuable for the blossoms and oilseeds they produce to be lightly consigned to the axe.

Increase of cultivation.

76. The percentage of the total area which is cultivated has risen according to the survey returns from 50.7 to 51.5 only, or by a merely nominal amount, but the cultivated area for the year of survey was somewhat below the normal area, as explained in paragraph 17. The present new fallow area is more than double that of last settlement, while a portion of the old fallow will no doubt be again ploughed up. Taking all this into consideration, however, it is unlikely that the normal cultivation has risen by more than two per cent.

Increase of irrigation.

77. The records of last settlement do not distinguish between irrigation from wells and irrigation from other sources, and all land was, at least in the district assessed by Colonel Macandrew, recorded as irrigated, if it appeared that it was usually watered, although it bore a dry crop in the year of survey. The area, there-