

Annual Irrigation
Revenue Report, Sind
1909-10, 1910-11, 1913-14
(Combined)

Government

1915

ANNUAL IRRIGATION REVENUE REPORT,
SIND,
1909-1910.

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No. 5996 OF 1910.

PUBLIC WORKS DEPARTMENT.

From .
G. Mc. C. HARRISON, ESQUIRE,
Superintending Engineer,
Indus Right Bank Division ;

To
THE SECRETARY TO GOVERNMENT,
Public Works Department, Irrigation,
Bombay.

SUPERINTENDING ENGINEER'S OFFICE,
INDUS RIGHT BANK DIVISION,
Camp Gaheja, 12th December 1910.

Subject :—

Annual Irrigation Revenue Report for 1909-1910.

Sir,

I have the honour to forward herewith the Revenue Report for Irrigation Works in this division, for the year 1909-1910.

I have the honour to be,
Sir,
Your most obedient servant,
G. Mc. C. HARRISON,
Superintending Engineer,
Indus Right Bank Division.

Accompaniments—

Annual Irrigation Revenue Report.
Tables I to IX, III-A, VII-A and Crop Return VIII-A.
Statements I-E to IV-E.
Statement I-A.
Statement I-B.
Statements I-C to IV-C.
General abstract of Financial Results.
Statement showing actual receipts during 1909-1910.
Memorandum shewing amount of loss to canals.

Through

THE SUPERINTENDING ENGINEER, INDUS LEFT BANK DIVISION, and
THE COMMISSIONER IN SIND.

ANNUAL IRRIGATION REVENUE REPORT, INDUS RIGHT BANK DIVISION.

1909-1910.

The inundation of the year, as described in the Irrigation Administration Report, was, on the whole, good, though not so favourable as that of 1908. The diagram sent in advance of the report shows how it compares with the previous year and with the average for 10 years.

The following table shows the principal features of the year, as compared with the previous year, and with the average :—

					Average for 10 years, including 1908.	1908.	1909.
Gauges—					Days.	Days.	Days.
Bukkur, 10 feet and over	...	...	...	97	75	65	
Do. 18 do.	...	...	...	44	59	31	
Kotri, 14 do.	...	...	...	98	117	120	
Do. 17 do.	...	...	...	46	79	80	
					Average for 5 years, including 1908.		
Irrigation—					Acres.	Acres.	Acres.
Kharif	...	...	...	1,297,788	1,336,089	1,241,378	
Rabi	...	...	...	395,885	506,136	355,126	
Total					1,693,673	1,842,225	1,596,504
					Rs.	Rs.	Rs.
Gross Irrigation Revenue realized...					43,14,707	47,04,720	43,98,310
Working expenses ...					21,32,581	21,95,918	25,78,427
Net revenue, neglecting simple interest					21,82,126	25,08,802	18,19,883

2. The gross assessed areas for the year are given according to classification of works in the following Statement A:—

STATEMENT A.

Year and Class of Crops.	MAJOR WORKS.	MINOR WORKS AND NAVIGATION.				Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
Average 5 years including 1908-1909.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	Kharif ... 409,831	313,234	552,905	21,767	887,956	1,297,787
Rabi ... 165,563	52,908	160,799	16,614	230,321	395,884	
Total ...	575,394	366,192	713,704	38,381	1,118,277	1,693,671
1908-1909	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	Kharif ... 415,102	317,080	579,299	24,608	920,987	1,336,089
Rabi ... 218,898	78,276	192,216	16,746	287,238	506,136	
Total ...	634,000	395,356	771,515	41,354	1,208,225	1,842,225

Year and Class of Crops.	MAJOR WORKS.		MINOR WORKS AND NAVIGATION.			Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
1909-1910 ...	Acres. 394,965	Acres. 296,567	Acres. 530,106	Acres. 19,740	Acres. 846,413	Acres. 1,241,378
... { Kharif ...	170,737	40,138	193,150	11,101	184,389	355,126
... { Rabi ...						
Total ...	565,702	336,705	663,256	30,841	1,030,802	1,596,504
Increase or decrease as compared with average. { Kharif ...	-14,866	-16,717	-22,799	-2,027	-41,543	-56,409
... { Rabi ...	+5,174	-12,770	-27,649	-5,513	-45,932	-40,758
Total ...	-9,692	-29,487	-50,448	-7,540	-87,475	-97,167
Increase or decrease as compared with 1908-1909. { Kharif ...	-20,137	-20,513	-49,193	-4,868	-74,574	-94,711
... { Rabi ...	-48,161	-38,138	-59,066	-5,645	-102,849	-151,010
Total ...	-68,298	-58,651	-108,259	-10,513	-177,423	-245,721

It will be seen from the above statement that the area under Kharif, when compared with that of the previous year, was less by 94,711 acres, and under Rabi by 151,010 acres, the total decrease being 245,721 acres. Compared with the average of the five preceding years, the decrease was 56,409 acres under Kharif and 40,758 acres under Rabi, or a total of 97,167 acres.

Area of "Dubári" cultivation. 3. The area of "Dubári" or twice-cropped land which is not included in Statement A, was 346,173 acres.

4. The total net consolidated assessment including land share and "Hakabo" on Foreign and Jágir lands, after deducting remissions, is shown in the following Statement B:—

STATEMENT B.

Year and Class of Crops.	MAJOR WORKS.		MINOR WORKS AND NAVIGATION.			Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
Average of 5 years including 1908-1909. { Kharif ...	Rs. 9,18,685	Rs. 9,98,237	Rs. 15,63,189	Rs. 49,412	Rs. 26,10,838	Rs. 35,22,523
... { Rabi ...	4,24,040	1,82,989	5,02,340	49,516	7,34,845	11,58,885
Total ...	13,42,725	11,81,226	20,65,529	98,928	33,45,683	46,88,408
1908-1909 ... { Kharif ...	9,86,509	10,07,571	15,92,626	48,773	26,48,970	36,35,478
... { Rabi ...	5,78,361	2,38,863	5,8,313	50,228	8,77,404	14,55,765
Total ...	15,64,869	12,46,434	21,80,939	99,001	35,26,374	50,91,243
1909-1910 ... { Kharif ...	9,32,306	9,93,897	16,39,184	48,747	26,51,328	36,13,634
... { Rabi ...	4,63,110	1,55,529	4,37,252	31,468	6,24,239	10,87,349
Total ...	13,95,416	11,49,426	20,76,436	80,205	33,05,567	47,00,983
Increase or decrease as compared with average. { Kharif ...	+13,621	-4,840	+75,995	-665	+70,490	+84,111
... { Rabi ...	+39,070	-7,460	-65,088	-18,058	-1,10,606	-71,536
Total ...	+52,691	-32,300	+10,907	-18,723	-40,116	+12,575
Increase or decrease as compared with 1908-1909. { Kharif ...	-54,202	-14,174	+46,558	-26	+32,358	-21,844
... { Rabi ...	-1,15,251	-83,334	-1,51,061	-18,770	-2,53,165	-3,68,416
Total ...	-1,69,453	-97,508	-1,04,503	-18,796	-2,20,807	-3,90,260

The total net assessed revenue was less by Rs. 3,90,260 than that of the previous year, but more by Rs. 12,575 than the average of the past five years.

4 (a). The area cultivated on "spill" water from the river was 54,529 acres as compared with 83,041 acres in the previous year.

Assessment rate per acre on Government land.

5. The average net consolidated assessment per acre on Government land, as compared with the average of the previous year, was as follows :—

					1909-1910.	1908-1909.
					Rs.	Rs.
Major Works—Productive	...	...	...	...	2.74	2.76
Works for which Capital and Revenue Accounts are kept	...	...	...	...	3.54	3.28
Works for which only Revenue Accounts are kept	...	...	...	...	3.30	2.99
Agricultural Works	...	...	...	...	2.90	2.65
Average for all works	...	...	...	...	3.17	2.97

Actual realizations under all heads and the balances outstanding.

6. The following table shows the actual realizations of Irrigation Revenue under all heads and the balances outstanding at the end of the year :—

STATEMENT C.

Year.	Collections.				Balance outstanding.
	Government land and Hakábo.	Miscellaneous.	Four per cent. Irrigation share of proceeds from sale of occupancy rights.	Total receipts.	
1	2	3	4	5	6
Average of the past five years	Rs. 42,02,517	Rs. 56,325	Rs. 55,866	Rs. 43,14,708	Rs. 4,47,312
1908-1909	45,81,665	62,923	60,132	47,04,720	3,45,399
1909-1910	42,69,637	67,439	61,234	43,98,310	2,95,836
Increase or decrease as compared with 1908-1909.	—3,12,028	+4,516	+1,102	—3,06,410	—41,563
Increase or decrease as compared with the average	+67,120	+11,114	+5,368	+83,602	—1,51,476

The balance outstanding at the end of the year, including the land share, shows a decrease of Rs. 41,551 when compared with the previous year and Rs. 1,51,464 when compared with the average of the previous five years.

7. The remissions granted during the year amounted to Rs. 1,56,285 or 3.32 per cent. of the gross assessment, of which Rs. 1,12,993 were on Kharif and Rs. 43,292 on Rabi; as compared with the previous year, the remissions on Kharif were less by Rs. 1,45,307 and more on Rabi by Rs. 1,277.

The following statement shows details of causes, and the amount attributable to each which rendered remissions necessary, as compared with the figures of the previous year :—

	1909-1910.	1908-1909.	Difference.
	Rs.	Rs.	Rs.
Deficiency of water	95,640	20,867	+74,773
Breaches in canals	818	73,135	-72,317
Blight or Mahlo	3,728	1,001	+2,727
Wire worms and insects	17,844	11,361	+6,483
Frost	418	5,910	-5,492
Locusts	258	1,741	-1,483
Rats	6,887	616	+6,271
Kalar soil	9,439	10,822	-1,183
Other causes	4,347	16,192	-11,845
Inundation	5,018	1,58,278	-1,53,260
Erosion	8,029	592	+7,437
Adverse winds	3,859	.....	+3,859
Total	1,56,285	3,00,315	-1,44,030

Remissions on Jágir lands. 7 (a). There were no remissions on Jágir lands.

7 (b). Remissions on lands in Foreign territory (Khelat) amounted to Rs. 725 only, of which Rs. 388 were on account of Remissions on Foreign lands. Kharif and Rs. 337 for Rabi. They are, however, not shown in Canal Return No. IX, as the amounts were drawn direct from the treasury and paid to the men concerned.

8. The difference between the "Hakabo" assessed on Foreign and Jágir cultivation and the full rate of assessment for those areas amounted to Rs. 3,59,201. This amount represents the loss of canal revenue during the year, due to the low rate at which water is allowed to Jágirdárs and to Zamindárs in Khelat. Loss to canals, Foreign and Jágir lands.

9. The total charges of the year on account of maintenance and repairs amounted to Rs. 22,32,588 and are divided as under :— Expenditure on maintenance and repairs and Establishment charged to Works.

	Rs.
Works	16,20,075
Establishment and Tools and Plant	3,45,492
Percentage charges for Revenue Collection	2,67,021
Total	<u>22,32,588</u>

The cost of Establishment charged to Works, which is included in the expenditure on Works, was Rs. 2,30,968. The net expenditure on Works (clearance and repairs) was Rs. 13,89,107. Compared with the previous year, it shows an increase of Rs. 3,58,966. The charges on account of Establishment, and Tools and Plant, during the year amounted to Rs. 3,45,492, and show an increase of Rs. 31,584 as compared with those of the previous year.

10. Of the total charges shown in the preceding paragraph, Rs. 11,60,990 were spent on canals and Rs. 10,71,598 on river embankments. Expenditure on maintenance separately for canals and river embankment.

11. The outlay of the year on new works was Rs. 4,30,429 as under :— Outlay on new works.

	Rs.
Major Works	93,650
Works for which Capital and Revenue Accounts are kept	11,833
Works for which only Revenue Accounts are kept	284
Agricultural Works	9,751
	44,268
	2,70,643
Total	<u>4,30,429</u>

Of the total expenditure under "Major Works", Rs. 76,187 represent "Works" expenditure, of which Rs. 68,348 were spent on the Begari and the balance Rs. 7,839 on the Unhárwah.

Under Minor Works—Capital, Rs. 284 represent expenditure on the Sattah Canal.

12. The regular establishment charges amounted to Rs. 4,82,913, showing an increase of Rs. 17,169 over those of the previous year.

Regular Establishment charges.

The total is made up as under :—

Executive	Rs.	Percentage on outlay.
	4,06,762	21·7
<i>Direction.</i>		
Superintending Engineer	Rs.	
Secretariat and Accounts	30,281	
	45,870	
	76,151	4·6
Total	4,82,913	25·8

13. The general financial results of all the Irrigation Works in this Division are shown in the following statement :—

Financial results.

STATEMENT D.

Class of Works.	Gross Revenue.	Working Expenses.	Net Revenue.	Simple interest.	Net Profit, 1908-1910.	Net Profit, 1903-1909.	Increase.	Decrease.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	13,42,241	3,42,891	9,99,410	2,25,855	7,73,555	8,31,703	...	—58,148
Minor Works for which Capital and Revenue Accounts are kept	10,59,869	8,24,691	7,35,168	...	7,35,168	8,72,814	...	—1,37,646
Total	24,02,100	6,67,522	17,34,578	2,25,855	15,08,728	17,04,517	...	—1,95,794
Minor works for which only Revenue Accounts are kept	19,14,810	5,68,864	13,45,946	...	13,45,946	13,94,822	...	—48,176
Agricultural Works	81,900	13,42,241	—12,60,341	...	—12,60,341	—8,14,005	...	—4,46,276
Total	19,96,210	19,10,905	+85,305	...	+85,305	5,80,757	...	—4,95,452
1908-1910	4,48,310	25,78,427	18,19,883	2,25,855	15,94,028	22,85,274	—6,91,246	
1903-1909	47,04,720	21,95,918	25,08,902	2,23,624	22,85,274	.....	.....
Increase or decrease	—3,06,410	+3,82,609	—6,88,919	+2,327	—6,91,246	.....	—6,91,246	

The following Statement E gives the information required as per Government Resolution No. W. I.—1815 of the 22nd August 1910 :—

STATEMENT E.

Total area irrigated by all classes of work.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated, (column 2 ÷ column 1.)	Expenditure on Agricultural works (excluding the cost of surveys for special projects).	Rate of expenditure on Agricultural works per acre of area irrigated, (column 4 ÷ column 1.)	Total working expenses per acre of area irrigated including expenditure on Agricultural works, (column 3 + column 5.)
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
1,596,504	12,34,386	·77	13,11,743	·82	1·59

14. There were 1,381 miles of main and 1,869 miles of branch canals, total 3,250 miles in operation during the year, against 3,252 miles in the previous year. The decrease is due to 2.25 miles of the mouths of the Masu and Maharo Canals *ex* Mahiwah having been eroded by the river. A small portion of the mouth of the Sind Canal was also eroded. In the Begari Canals District, the Kharirawah *ex* the Unhárwah was extended by 1.14 miles. The length of river embankment was 475 miles against 472 miles of the last year. In the Shikárpur Canals District, 2 miles of the Kasimpur Bund and 1.5 miles of the Sukkur-Begari Bund were eroded, and 6.5 miles of the Choi Loop were constructed, resulting in an addition of 3 miles to the length of the river embankments.

Areas of principal crops, Government, Foreign and Jágir.

15. The areas of principal crops irrigated during the year are given below :—

Crops.	1909-1910.			Average for five years.	1908-1909.	Increase or decrease as compared with average.	Increase or decrease as compared with 1908-1909.
	Lift.	Flow.	Total.				
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Rice	281	722,842	723,123	640,195	604,808	+ 82,928	+118,315
Jowári	122,894	212,040	334,934	440,449	520,117	-105,515	-185,183
Bájri	50,840	68,405	119,245	132,138	128,040	-12,893	- 8,795
Cotton	240	602	842	2,732	1,005	-1,890	-163
Other crops	7,828	55,406	63,234	82,282	82,120	-19,048	-18,886
Total	182,083	1,059,295	1,241,378	1,297,796	1,336,090	-56,418	-94,712
Wheat	9,008	183,147	192,155	205,359	242,620	-13,204	-50,465
Barley	273	14,314	14,587	13,329	29,887	+1,258	-15,300
Oil-seeds	6,247	117,935	124,182	159,325	221,937	-35,143	-97,755
Other crops	2,003	368,372	370,375	318,857	334,066	+51,518	+36,309
Total	17,531	683,763	701,299	696,870	828,510	+4,429	-127,211
Grand Total	199,614	1,743,063	1,942,677	1,994,666	2,164,600	-51,989	-221,923

As compared with the previous year there was an increase in rice and a decrease under all other crops under Kharif, the total decrease being 94,712 acres. Under Rabi there was a decrease throughout, except under other crops, in which there was an increase of 36,309 acres, the total decrease being 221,923 acres. Comparison with the average shows a decrease under all Kharif crops except rice, the total decrease being 56,418 acres. Under Rabi there was an increase of 4,429 acres. The net decrease was 51,989 acres.

16. The percentages of Kharif and Rabi on the total area irrigated in this Division were 64 and 36 respectively. The highest percentage of Kharif was in the Karáchi Canals District, *i. e.*, 86. Rice was grown principally in the Ghar, Western Nara, and Karáchi Canals Districts. The largest area irrigated under Juári and Bájri was in the Begari Canals District, and under cotton in the Shikárpur Canals District.

Under Rabi crops, wheat was largely grown in the Shikárpur Canals, Ghar Canals and Western Nara Districts; barley in the Karáchi Canals District, and oil-seeds in the Begari Canals and Western Nara Districts. Ten per cent. of the whole area was watered by lift and 90 per cent. by flow. The last year's respective percentages were 11 and 89.

17. The lower duty and the increased average discharge of the Desert Canal, as compared with the previous year, is probably due to the fact that the canal only flowed 145 days which is much less than usual. The Δ remains the

Duties and Deltas of canals.

same as in the previous year. The figures for the Unhárwah remain practically the same as in 1906, and 1908, when similar figures of cultivation and discharge were recorded. The average discharge of the Begari is less than the previous year, and is probably due to the fact that the river fell suddenly in September; the canal continued to flow until December 9th with about a foot of water passing down. The increased duty is probably due to the better distribution of water owing to reduction of outlets from miles 33 to 76.

The duties and deltas in the Shikárpur Canals District compare favourably with those of the previous year, except in the case of the Mahiwah on which the duty was considerably less. This may be accounted for by the canal flowing a considerably fewer number of days than in the previous year.

For a similar reason, the duty on the Ghar Canal was less than in the previous year, as also the delta. The duty on the Sukkur Canal, as far as Rabi cultivation was concerned, was considerably higher than in the previous year. The delta on the Sukkur Canal, for Kharif, was slightly less than in the previous year.

The duties on the canals in the Western Nara District were on the whole less than those of the previous year, and were probably due to the fewer number of days the canal flowed, and to the decrease in the area of cultivation.

18. The incidence of working expenses on assessed revenue on Major and Minor Works for which Capital and Revenue Accounts are kept is given in Statement II-E. The incidence of working expenses on assessed revenue. The working expenses were nearly the same as those of the previous year.

19. Statement III-E showing the approximate value of each kind of crop is appended. The value of the different kinds of crops grown on the irrigated area of 1,942,677 acres is estimated by the Revenue Authorities at Rs. 4,23,03,045 which gives an average of Rs. 22 per acre and is the same as that of the last year. As the net consolidated assessment on Government land averaged Rs. 3.17 per acre, the average value of the crops was nearly 7 times the assessment.

20. The following paragraphs give details of different works or group of works :—

I.—MAJOR WORKS.

PRODUCTIVE WORKS.

21. A.—Desert Canal.

Capital.—No expenditure was incurred under this head during the year.

Extensions and Improvements.—The sum of Rs. 4,045 was expended during the year under this head in completing the cross regulator over the Kandkot Rajwah, the well at Ahmed's village, and several sluices over karias *ex* the Toj Rajwah and Fall Rajwah.

Maintenance and Repairs.—The main canal and branches were maintained in good order at a cost of Rs. 99,598 (excluding the cost of maintaining gardens) against the sum of Rs. 85,669 incurred under this head during the last year.

Irrigation.—The total area irrigated including Dubári was 181,491 acres, of which 124,020 acres were under Kharif and 57,471 under Rabi. The decrease on the total cultivation, as compared with that of the previous year, was 9,631 acres, and was due to the early fall of the river, causing the canal to cease to flow on the 1st November, while, in previous years, the canal flowed till the middle of December, or even later.

Financial Results.—The gross revenue from all sources amounted to Rs. 3,45,945 and the working expenses to Rs. 1,28,975. The revenue, Rs. 2,16,970, represents a return of 8.03 per cent. on the capital outlay as against 7.62 per cent. in the previous year.

General Remarks.—The remissions granted during the year amounted to Rs. 43,804 against Rs. 14,013 last year. The principal crops grown were Juári 71,147 acres, Bájri 22,606, rice 12,710, and wheat 13,606 acres.

22.

B.—Unhárwah.

Capital.—An outlay of Rs. 7,539 was incurred under this head in completing the two distributaries, *viz.*, the Khariro and the Hazaro wahs at mile 8/5 and 13/1 of the main canal.

Extensions and Improvements.—The sum of Rs. 2,500 was expended during the year in strengthening the Tori Stop gate at mile 4/4 of the main canal.

Maintenance and Repairs.—The canal and its branches were maintained in good order, at a cost of Rs. 23,321 (excluding the cost of maintaining gardens).

Irrigation.—The total area irrigated including Dubári was 84,529 acres, of which 53,143 acres were under Kharif and 31,386 under Rabi, against a total cultivation of 85,273 acres in the previous year.

Financial Results.—The gross revenue under all heads amounted to Rs. 1,97,049 and the working expenses to Rs. 39,443. The net revenue was Rs. 1,57,606 and represents 22.23 per cent. on the capital outlay as compared with 22.69 per cent. of the previous year.

General Remarks.—The remissions granted amounted to Rs. 4,595. The principal crops grown were Juári 19,966 acres, Bájri 20,898, wheat 10,494, and rice 5,593 acres.

23.

C.—Begari Canal.

Capital.—The total outlay under works incurred under this head during the year was Rs. 68,348, out of which Rs. 52,979 were spent in constructing the new Head Regulator at mile 6/0 of the canal, and on excavating a cut to straighten the canal. The remaining amount was spent on the Choi branch project works.

Extensions and Improvements.—The outlay under this head was Rs. 2,106 and was incurred in completing the survey in connection with the Choi Branch, and in preparing projects for new branches *ex* the main canal. The new Bungalow at the Begari Head Regulator was also completed.

Maintenance and Repairs.—The cost of maintaining the canal and its branches (excluding the outlay on gardens) was Rs. 74,364.

Irrigation.—The total area irrigated including "Dubári" was 282,544 acres, of which 170,909 were under Kharif and 111,635 under Rabi. When compared with the previous year, the total shows a decrease of 41,723 acres. This was, to a great extent, due to the sudden fall in the river in September, causing failure in the Rabi supply, which was less by 24,518 acres as compared with the previous year.

Financial Results.—The gross revenue during the year was Rs. 5,87,668 and working expenses Rs. 1,20,127. The net revenue was thus Rs. 4,67,541. But after deducting charges on account of old irrigation, the net revenue due to improvements was Rs. 4,42,687, giving a return of 20.13 per cent. on the capital outlay as compared with 23.22 per cent. in 1908-1909.

General Remarks.—The remissions granted during the year amounted to Rs. 3,634 against Rs. 3,769 in the last year.

The principal crops grown were Juári 77,459 acres, rice 62,854, Bájri 18,005, wheat 12,016 and oil-seeds 15,627 acres.

24.

D.—Mahiwah.

Capital.—No expenditure was incurred during the year under this head.

Extensions and Improvements.—The sum of Rs. 2,829 was incurred during the year in constructing a new Feeder to the Gudu Dhand, Londhis for Muka-

dams on the Dehar and Masu Canals, and renewing the roof of the Inspection Bungalow Class I at Rawti on the Masuwah.

Maintenance and Repairs.—The canals and its branches were maintained in good order at a cost of Rs. 41,010.

Irrigation.—The total area irrigated was 85,031 acres, of which 46,893 acres were under Kharif and 38,893 under Rabi. When compared with the previous year, the total shows a decrease of 14,395 acres, which was due to low inundation. When compared with the average of the 5 previous years, the total shows an increase of 16,004 acres.

Financial Results.—The gross revenue from all sources was Rs. 2,11,579 and the working expenses Rs. 54,286, the net revenue being Rs. 1,57,293. After deducting charges on account of old irrigation, the net revenue was Rs. 68,076, giving a percentage of 4.94 on the capital outlay against 6.23 in the previous year.

General Remarks.—The remissions granted during the year amounted to Rs. 980 only. The principal crops grown were Juári 27,417 acres, wheat 25,969, Bájri 9,244, and rice 9,476 acres.

II.—MINOR WORKS AND NAVIGATION.

A.—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

25.

1.—Sukkur Canal.

Capital.—No expenditure was incurred on this canal under the above head during the year.

Extensions and Improvements.—The sum of Rs. 4,519 was expended during the year on completing the several Rajwahs along the main canal, and Kur Biro, commenced in the previous years.

Maintenance and Repairs.—The cost of maintaining the main and branch canals in good order was Rs. 45,263. In the previous year it was Rs. 36,825.

Irrigation.—The total cultivation was 131,807 acres, of which 74,391 acres were under Kharif and 57,596 under Rabi. As compared with the previous year there was a decrease of 5,674 acres.

Financial Results.—The gross revenue realized from all sources amounted to Rs. 2,65,855 and the working expenses were Rs. 83,462, bringing the net revenue to Rs. 1,82,393. After deducting charges for old irrigation, the net revenue comes to Rs. 1,10,949, giving a return of 7.78 per cent. on the capital outlay, the return in the previous year being 8.95 per cent.

General Remarks.—The remissions granted during the year amounted to Rs. 2,336 only against Rs. 6,530 in the previous year. The principal crops grown were rice 54,534 acres, Jowári 15,559 acres, and wheat 17,470 acres.

26.

2.—Ghair Canal.

Capital.—No expenditure was incurred under this head.

Extensions and Improvements.—The total outlay under this head was Rs. 3,140, of which Rs. 2,831 were spent on the second mile regulator of the Fordwah.

Maintenance and Repairs.—The expenditure on clearance proper, and establishment amounted to Rs. 1,22,312, of which Rs. 31,503 were spent in constructing a new feeder to the dhands and dhoros leading to the Fordwah, Rs. 8,067 in widening the dhoro *ex* river to feed the Ghár Dhand, and Rs. 5,434 in clearing dhoro No. 1 *ex* the Ghár Dhand leading to the Fordwah.

Irrigation.—The total area irrigated was 340,842 acres, of which 206,795 acres were under Kharif and 134,047 under Rabi against 371,681 acres in the previous year, resulting in a decrease of 30,839 acres.

Financial Results.—The gross revenue amounted to Rs. 7,56,759 and the working expenses Rs. 2,14,357, the net revenue being Rs. 5,42,402. After deducting charges for old irrigation, the net revenue due to improvements was Rs. 4,25,731, representing a return of 74·38 per cent. on the capital outlay as compared with 95·09 per cent. in the previous year.

General Remarks.—The remissions granted during the year amounted to Rs. 22,544, of which Rs. 21,054 were in the Lárkána and Rs. 4,490 in the Upper Sind Frontier District. Of this sum, Rs. 18,665 were due to deficiency of water mostly in the Nasirabad and Kambar Tálukás. The principal crops grown were rice 178,730 acres, Jowári 23,910 acres, wheat 24,301 acres, and oil-seeds 24,465 acres.

27.

3.—*Sattah.*

Capital.—The expenditure under this head during the year was Rs. 284 paid for compensation for land taken up for widening this canal and the Rajwah.

Extensions and Improvements.—The outlay under this head was Rs. 76, and was incurred in lowering the pavement of Karia Sanhro *ex* the Sattah.

Maintenance and Repairs.—The canal was maintained in good order at a cost of Rs. 21,644. The outlay in the previous year was Rs. 20,707.

Irrigation.—The total area cultivated was 16,764 acres, of which 15,471 acres were under Kharif and 1,293 under Rabi. The total cultivation in the previous year was 17,713 acres.

Financial Results.—The gross revenue was Rs. 37,245 and the working expenses Rs. 26,872, the net revenue being Rs. 10,373. After deducting charges for old irrigation, the net revenue was Rs. 3,446, representing a return of 1·91 per cent. on the capital outlay against —6·38 per cent. in 1908-1909.

General Remarks.—The remissions during the year amounted to Rs. 818 only against Rs. 16,069 in the previous year. The principal crops grown were rice 11,394 acres and Bájri 3,839 acres.

B.—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

28.

(1) *Canals in the Shikárpur District.*

The principal canals are the Sind, Rajib, Chiti, and Garang on the right bank of the river, and canals in the Rohri Division on the left bank.

Extensions and Improvements.—The sum of Rs. 4,957 was spent on constructing a new feeder to the Gudu Dhand, raising and strengthening the banks of the Rajib, Chiti, and Garang Canals, taking up land for widening the Sind Canal, and extension of Channel No. 1 *ex* the Sind Canal.

Maintenance and Repairs.—The expenditure incurred under this head was Rs. 97,863 against Rs. 1,06,776 in the previous year.

Irrigation.—The total area irrigated in this district was 175,239 acres, of which 103,425 acres were under Kharif and 71,814 acres under Rabi. As compared with the previous year, it shows a decrease of 53,828 acres, and was due to a low inundation.

Financial Results.—The total canal revenue realized was Rs. 4,67,671 and the total revenue charges were Rs. 1,18,415, which amounts to 25·3 per cent. of the revenue and Re. ·8 per acre of the area irrigated excluding Dubári. The corresponding figures for the 3 previous years averaged 28·0 per cent. and Re. ·8 respectively.

General Remarks.—The remissions during the year amounted to Rs. 5,802 against Rs. 2,297 last year.

29.

(2) *Canals in the Western Nára District.*

This district comprises the following main canals which take off direct from the river:—

The Western Nára with its two feeders (the New Feeder and the Pritchard Canal), the Marvi, the Wahur, the Phitta, the Chario Wahur with the Aral and the Dunster, the Dádu Canals and the Canals north of Kotri. The Muncher Lake is fed by the Aral, Dunster, Western Nára, and rain-water, and drained by the Aral and the Dunster.

Extensions and Improvements.—The sum of Rs. 5,874 was spent under this head during the year, of which Rs. 33 were on the widening of the New Akil Mouth to the Western Nára to 125 feet bed width, Rs. 463 on excavating a feeder to the Sadabahar Canal, Rs. 3,583 on constructing a New Public Works Inspection Bungalow Class I at the Pritchard Canal Mouth, Rs. 137 on the diversion of the Wahurwah and Rs. 1,658 on additions and alterations to buildings and sluices.

Maintenance and Repairs.—The expenditure during the year amounted to Rs. 95,971 and was spent on clearance of canals, repairs to Bund Virah and maintenance of the necessary establishment.

Irrigation.—The total area irrigated was 381,994 acres, of which 231,309 acres were under Kharif and 150,658 (150,685?) acres under Rabi. The total shows a decrease of 36,559 acres as compared with the past year.

Financial Results.—The total canal revenue realized was Rs. 9,61,463 and the revenue charges were Rs. 1,90,563, being 19·8 per cent. of the revenue and Re. ·6 per acre of the area irrigated excluding Dubári, the corresponding figures of the average of the three previous years being 18·7 and Re. ·5.

General Remarks.—The remissions during the year amounted to Rs. 48,307 against Rs. 43,101 last year. They were chiefly due to deficiency of water, as the river was low and fluctuating, and fell suddenly, which affected the crops.

30.

(3).—*Canals in the Karáchi District.*

The principal canals are the Kalri, Baghar, Pinyari and Kokawari.

Extensions and Improvements.—The expenditure under this head was Rs. 28,226. Of this, Rs. 3,788 were spent on surveying the Baghar Canal, Rs. 3,679 on excavating a new head to the Khanto, Rs. 9,004 on constructing regulators over the Mirwah Nawab and the Mahomedwah, Rs. 5,220 on constructing arches and parapets to the sluices over the Zamindári karias in the Sujawal and the Pinyari Sub-divisions, Rs. 4,061 on constructing head regulators over the Khatianwah, Hajiwah and the Jamwah.

Maintenance and Repairs.—The expenditure under this head was Rs. 1,69,001.

Irrigation.—The total area irrigated was 228,424 acres, of which 195,372 acres were under Kharif and 33,052 under Rabi. As compared with the previous year, the total shows a decrease of 15,620 acres.

Financial Results.—The total canal revenue realized was Rs. 4,81,218 and the working expenses amounted to Rs. 2,15,418, which amounts to 44·8 per cent. of the revenue and Re. 1·0 per acre on the area irrigated excluding Dubári, the corresponding figures for the average of the three previous years being 67·15 and Rs. 1·2.

General Remarks.—The remissions granted amounted to Rs. 17,832 only against Rs. 1,82,150 last year.

C.—WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

31. The principal bunds in this Division, on the right bank of the river, are the Káshmor, Sukkur-Begári, Ghár, Nára, bunds north of Kotri, and Right Bank Bunds in the Karáchi Canals District; and, on the left bank, the Kasimpur and the Karáchi District Bunds.

Extensions and Improvements.—The sum of Rs. 84,061 was spent during the year under this head, the principal works being extending the Kundharowah

to feed the Gauspur Branch, raising and strengthening some portions of the Sukkur-Begari Bund, constructing railway diversion Rohri Bund, constructing a protective bund along the southern boundary of the Garhi Halim forest, constructing sluices in the Baghar Uchito and Mulehand, Shahbandar bunds, strengthening the old Panah Bund at the Khatian mouth, constructing an Inspection Chowki at Sanwalpur, and an embankment for confining flood water in the Hunderani forest, and a Public Works Inspection Bungalow with out-houses at Puranodero on the Fatehpur Bund.

Maintenance and Repairs.—The expenditure on maintenance and repairs, and special repairs, to river embankments, including Establishment and Tools and Plant charges, was Rs. 9,97,696, against Rs. 6,48,938 in the previous year.

General Remarks.—The important works classed under special repairs were the new Gauspur Loop, the reconstruction of the old Tori Bund from the Tori Bungalow to the 1896 Loop, constructing the Haibat Loop from Ghoraghat to Tori Stop Gate Regulator, and a bund from Tori Stop Gate to join the Gauspur Loop, constructing a loop to the Sukkur-Begari Bund from mile 26/2 to the Head Regulator of the Choi Canal, and the Munarki Loop behind miles 50/2 to 54/2 of the Mulehand Shahbandar bunds.

The sum of Rs. 1,45,603 was spent by the Chief Engineer, Indus River Commission, of which Rs. 24,265 was on surveying the Indus, and Rs. 1,734 on trial borings for the proposed Barrage at Sukkur. Under Maintenance and Repairs, the expenditure incurred was Rs. 23,840, Regular Establishment Rs. 90,506, and Tools and Plant Rs. 5,126.

The expenditure on the Survey and Construction District was Rs. 56,809, of which Rs. 5,597 was spent on Survey for the Right Bank Canal Project without additional contour lines, Rs. 178 on taking observations of sub-soil water in the area covered by the proposed Indus Right Bank Canal, Rs. 48,897 on Regular Establishment, and Rs. 1,837 on Tools and Plant.

32. The expenditure on and receipts from gardens maintained in this Division, as compared with those of the previous years, are as follows :—

Expenditure and Receipts of gardens.

Year.	Expenditure on maintenance of gardens during the year.	Receipts during the year.
	Rs.	Rs.
1907-1908 ...	3,789	1,461
1908-1909 ...	3,241	1,556
1909-1910 ...	4,536	1,734

33. The total number of trees planted during the year in this Division was 178,577, of which 120,508 were babul, and the rest principally Tali and Nim. The number of trees alive at the end of the year was 225,498, including 149,081 babul. The number of young trees transferred from nurseries for plantation on canal banks was 62,512, including 23,568 babul.

34. The Division was in charge of Mr. D. W. Herbert for 11 months 9 days of the year under report.

The following officers were in charge of the Executive Districts :—

District.	Name of Executive Engineer.	Months	Days.
Begári Canals	... { Mr. C. O. Lowsley	9	6
	... { Mr. T. B. Robertson	2	25
Shikárpur Canals	... { Mr. R. T. Harrison	12	0
	... { Mr. A. F. Thorpe	1	3
Ghár Canals	... { Mr. C. M. Lane	1	4
	... { Mr. D. R. Sawhney	1	2
	... { Mr. P. L. Bowers	5	4
Western Nára	... { Mr. C. M. Lane	3	18
	... { Mr. B. Krishnarao	12	0
Karáchi Canals	... { Mr. F. St. J. Gebbie	7	13
	... { Mr. C. M. Lane	4	12
Survey and Construction	... { Mr. Karpur Shrinivasrao	12	0

G. Mc. C. HARRISON,
 Superintending Engineer,
 Indus Right Bank Division.

No. 225 OF 1911.

PUBLIC WORKS DEPARTMENT:
Camp Mirpurkhas, 13th January 1911.

From

H. F. BEALE, ESQUIRE,
 Superintending Engineer,
 Indus Left Bank Division;

To

THE JOINT SECRETARY TO GOVERNMENT,
 Public Works Department,
 Bombay.

Sir,

I have the honour to submit the Irrigation Revenue Report for Sind for the year 1909-1910.

2. As directed in Government Resolution No. W.I.—1815 of 22nd August 1910, a new Statement E showing the rate of expenditure on Agricultural Works per acre of area irrigated after excluding the cost of surveys, etc., is inserted in the body of the report.

I have the honour to be,

Sir,

Your most obedient servant,

H. F. BEALE, M.Inst.C.E.,
 Superintending Engineer, Indus Left Bank Division.

Through

THE CHIEF ENGINEER IN SIND,

and

THE COMMISSIONER IN SIND.

Documents accompanying :—

As per attached Index.

ANNUAL IRRIGATION REVENUE REPORT, INDUS LEFT BANK DIVISION, SIND.

1909-1910.

Character of the inundation.

The inundation as already reported in the Irrigation Administration Report for 1909-1910 was on the whole a good one though not so favourable as that of 1908.

The diagram sent in advance of this report compares the inundation of 1909 with the average of the two previous years and with the 10 years' average.

The following table shows some figures for this year compared with previous years:—

				Average for 10 years including 1903.	1908.	1909.
				No. of days.	No. of days.	No. of days.
Gauges—						
Bukkur, 10 feet and over ...	...	...	...	97	75	65
" 13 " " ...	...	...	...	44	59	31
Kotri, 14 " " ...	...	...	...	98	121	120
" 17 " " ...	...	...	...	46	79	60
Irrigation—				Average for 5 years including 1908.		
Kharif ..	...	...	Acres.	1,202,311	1,258,447	1,143,246
Rabi ..	...	...	"	279,011	248,877	187,165
Total ...				Acres.	1,481,322	1,330,411
Gross Revenue ...	...	...	Rs.	33,16,011	33,34,316	34,30,707
Working Expenses ...	...	...	"	13,46,809	15,63,157	14,90,425
Net Revenue neglecting simple interest ...	...	...	"	19,69,202	17,71,159	19,40,282

The area irrigated was 171,913 acres less than the area of the previous year. It was also 150,911 acres and 44,470 acres less than the average of the previous five and ten years respectively. This shortage in area is principally due to late inundation in the kharif season.

Area of cultivation—Government and Jaghir.

2. The gross assessed areas for the year are given in the subjoined Statement A.

STATEMENT A.

Year and Class of Crops.	Major Works		Minor Works and Navigation.			Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Average of 5 years including 1908-09.						
{ Kharif ...	536,841	430,733	234,737	...	665,470	1,202,311
{ Rabi ...	193,327	62,471	23,213	.....	85,634	279,011
Total ...	730,168	493,204	257,950	.....	751,154	1,481,322
1908-09						
{ Kharif ...	558,812	453,944	245,691	.....	699,635	1,258,447
{ Rabi ...	159,162	51,301	33,414	.....	84,715	243,877
Total ...	717,974	505,245	279,105	.....	784,350	1,502,324
1909-10						
{ Kharif ...	466,718	440,511	236,017	.....	676,528	1,143,246
{ Rabi ...	112,631	49,311	25,323	.....	74,634	187,165
Total ...	579,249	489,822	261,340	.....	751,162	1,330,411
Increase or Decrease as compared with average.						
{ Kharif ...	-70,123	+9,778	+1,260	.....	+11,058	-59,065
{ Rabi ...	-80,796	-13,160	+2,110	.....	-11,050	-91,846
Total ...	-150,919	-3,382	+3,390	.....	+8	-150,911
Increase or decrease as compared with 1908-09.						
{ Kharif ...	-92,094	-13,433	-9,674	.....	-23,107	-115,201
{ Rabi ...	-46,631	-1,990	-3,091	.....	-10,081	-56,712
Total ...	-138,725	-15,423	-17,765	.....	-33,188	-171,913

The statement shows that the areas under both kharif and rabi have decreased and they are also less than the areas of the previous year. Compared with the average of the previous 5 years, the increase in kharif balances the decrease in rabi area under Minor Works, otherwise there is a decrease under all account heads both when compared with the previous year and the 5 years' average.

3. The area of "Dubári" or land on which two crops were grown during the year, which is not included in Statement A, was 31,602 acres; of this area 5,835 acres were watered Dubári, all in the Thar Parkar District.

Irrigation assessments—
Government and Jaghir.

4. The total irrigation assessments for the year including "Hakábo" for Jaghir lands are given in Statement B.

STATEMENT B.

Year and Class of Crops.	Major Works.	Minor Works and Navigation.				Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
Average of 5 years (including 1908-09.)	Rs. 13,90,317	Rs. 9,50,612	Rs. 5,33,671	Rs.	Rs. 14,84,283	Rs. 28,64,600
{ Kharif ...	4,90,005	1,21,664	68,523	.....	1,90,187	6,80,192
{ Rabi ..						
Total ..	18,70,322	10,72,276	6,02,194	.....	16,74,470	35,44,792
1908-09 ...	Rs. 15,96,756	Rs. 10,22,741	Rs. 5,81,518	Rs.	Rs. 16,04,259	Rs. 32,01,015
{ Kharif ...	3,36,664	1,06,943	1,02,846	.....	2,09,789	5,46,453
{ Rabi ...						
Total ..	19,33,420	11,29,684	6,84,364	.....	18,14,048	37,47,468
1909-10 ...	Rs. 13,96,919	Rs. 10,28,849	Rs. 5,75,918	Rs.	Rs. 16,04,767	Rs. 30,01,686
{ Kharif ...	3,31,331	1,09,596	73,661	.....	1,83,257	5,14,588
{ Rabi ..						
Total ..	17,28,250	11,38,445	6,49,579	.....	17,88,024	35,16,274
Increase or decrease as compared with average.						
{ Kharif ...	+16,602	+78,237	+42,247	.....	+1,20,484	+1,37,086
{ Rabi ...	-1,58,674	-12,068	+5,138	.....	-6930	-1,65,604
Total ..	-1,42,072	+66,169	+47,385	.....	+1,13,554	-28,518
Increase or decrease as compared with 1908-09.						
{ Kharif ...	-1,99,837	+6,108	-5,600	.....	+508	-1,99,329
{ Rabi ...	-5,333	+2,653	-29,185	.....	-26,532	-31,865
Total ..	-2,05,170	+8,761	-34,785	.....	-26,024	-2,31,194

The net assessed revenue shows a decrease of Rs. 2,31,194 as compared with that of the previous year. It is also Rs. 28,518 less than the average of the last five years. Compared however with the average of the previous 10 years, it shows an increase of Rs. 3,72,109.

4 (a). The area cultivated on 'Spill' water given in the crop returns was 4,437 acres, as compared with the previous year's area of 10,053 acres and with 7,502 acres, the average of the previous 5 years.

Assessment rate per acre on Government land.

5. The average net consolidated assessment per acre on Government land as compared with the previous year was as under :—

	1909-10.	1908-09.
Major works—Productive ...	Rs. 3.06	Rs. 2.76
Minor Works for which Capital and Revenue Accounts are kept ...	2.67	2.58
Minor Works for which only Revenue Accounts are kept ...	2.75	2.71
Average for all works ...	2.87	2.70

Actual realizations under all heads and the balances outstanding.

6. The following statement shows the actual realizations under all heads and the balances outstanding at the end of the year :—

STATEMENT C.

Years.	Collections.				Balance outstanding.
	Government land and Hakabo.	Miscellaneous.	Four per cent. Irrigation share of proceeds from sale of occupancy rights.	Total receipts.	Total.
1	2	3	4	5	6
Average of past five years	Rs. 31,63,691	Rs. 86,107	Rs. 66,213	Rs. 33,16,011	Rs. 3,09,970
1908-1909	31,79,647	75,880	78,789	33,34,316	4,81,667
1909-1910	32,79,699	68,856	82,152	34,90,707	3,45,889
Increase or decrease as compared with 1908-09.	+1,00,052	-7,024	+3,863	+96,391	-1,36,278
Increase or decrease as compared with average.	+1,16,008	-17,261	+15,939	+1,14,696	+35,419

The balance outstanding at the end of the year under report shows a satisfactory decrease of Rs. 1,36,278 when compared with the previous year; but it shows an increase of Rs. 35,419 when compared with the average of the previous 5 years. These outstanding balances were due to postponements granted to cultivators on account of their poor circumstances. The balance outstanding at the end of the year in the Jamrao Canal District was Rs. 1,38,803 under both Government and Jaghir lands—a reduction of Rs. 59,995. It is hoped the balance will be reduced still further in the coming year.

7. The remissions granted during the year amounted to Rs. 58,674 against the previous year's large figure of Rs. 1,51,642 and Rs. 1,49,654, the average of the previous 5 years. The kharif crop accounted for Rs. 47,425 and the rabi for Rs. 11,249.

The following statement gives the causes of the remissions with a comparison of the previous year's figures :—

REMISSIONS.

Causes of Remissions.	1909-1910.	1908-1909.	Difference.
	Rs.	Rs.	Rs.
Concessions to Colonists and Act III of 1899	7,261	36,477	—29,216
Deficiency of Water and drought	26,400	27,220	—820
Locusts	942	2,446	—1,504
Rats	5,205	.....	+5,205
Floods or erosion	16,440	79,504	—63,064
Insects or Wire-worms	11	34	—23
Blight or Mahlo	20	.....	+20
Kalar soil	2,171	61	+2,110
Frost	73	42	+31
Other causes	151	125	+26
Damage by rain ... ..	.....	709	—709
Poverty of peasants ... ..	.....	434	—434
Introduction of revised settlement rates ... ..	.....	4,590	—4,590
	58,674	1,51,642	—92,968

Remissions on jaghir lands. 7 (a). No remissions were, like last year, granted on Jaghir lands.

8. The difference between the "Hakabo" assessed on Jaghir cultivation and the assessment at full rates on these areas amounted to Rs. 2,71,588, which represents the loss of canal revenue during the year owing to the low rates charged to Jaghirdars.

Expenditure on maintenance and repairs and Establishment charged to Works. 9. The total charges during the year on account of maintenance and repairs amounted to Rs. 13,48,662 as shown under :—

	Rs.
Works	8,28,621
Establishment and Tools and Plant ...	3,20,541
Percentage charges for Revenue collection ...	1,99,500
	<u>13,48,662</u>
	Total 13,48,662

The Establishment charged to "Works" amounted to Rs. 1,68,611 and is included in the expenditure incurred on "Works", while the net expenditure on "Works" (clearance and repairs) was Rs. 6,60,910. Compared with the previous year, the net expenditure on clearance and repairs shows a slight increase of Rs. 7,983. The charges on account of Establishment and Tools and Plant are Rs. 18,987 more than in the previous year.

Expenditure on maintenance and repairs separately for canals and river embankments. 10. Of the total charges shown in the preceding paragraph, Rs. 11,90,226 were spent on canals and Rs. 1,58,436 on river embankments.

Outlay on new works. 11. The outlay of the year on new works was Rs. 2,84,631 as shown below :—

	Rs.
Major Works	1,75,040
	{ Capital ...
	{ Revenue ... 10,661
<i>Minor Works and Navigation.</i>	
Works for which Capital and Revenue Accounts are kept ...	4,210
	{ Capital ...
	{ Revenue ... 7,568
Works for which only Revenue Accounts are kept ...	15,253
Agricultural Works	71,899
	<u>2,84,631</u>
	Total ... 2,84,631

Under Major Works-Capital, Rs. 1,34,408 represent the Works expenditure, of which Rs. 85,398 were spent on the Jamrao Canal, Rs. 24,349 on the Nasrat, Rs. 13,811 on works in the Eastern Nara District and the balance Rs. 10,850 on the Dad. Under Minor Works-Capital, the sum of Rs. 4,210 was spent on the Hasanali Canal in the Fuleli Canals District.

Regular Establishment charges. 12. The regular Establishment charges amounted to Rs. 4,14,690, which is Rs. 12,209 less than in the previous year.

	Rs.	Percentage on outlay. Rs.
Executive	3,55,516	37.7
<i>Direction and Accounts.</i>		
Superintending Engineer	31,575	
Secretariat & Accounts	24,599	
	<u>59,174</u>	6.3
Total	<u>4,14,690</u>	<u>44.0</u>

13. The general financial results of all the Irrigation works in this Division are shown in the following Statement :—

STATEMENT D.

Class of Works.	Gross Revenue.	Working Expenses.	Net Revenue.	Simple Interest.	Net Profit, 1909-1010.	Net profit, 1908-1909.	Increase.	Decrease.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	17,27,749	7,02,001	10,25,748	6,24,000	4,01,748	2,45,423	+1,56,325	...
Minor Works for which Capital and Revenue Accounts are kept	10,98,319	3,61,052	7,32,267	...	7,82,267	7,31,422	+508	...
Total	28,21,068	10,63,053	17,58,015	6,24,000	11,84,015	9,76,845	+1,57,165	...
Minor Works for which only Revenue Accounts are kept	6,09,047	1,97,037	4,12,010	...	4,12,010	3,43,750	+68,260	...
Agricultural Works	682	2,30,335	-2,29,743	...	-2,29,743	-1,74,904	...	-55,139
1909-1910	34,30,707	14,60,425	19,40,282	6,24,000	13,16,282	11,45,968	+1,70,286	...
1908-1909	33,34,316	15,68,157	17,71,159	6,25,163	11,45,996	.....	.....	...
Increase or decrease	+96,391	-72,732	+1,69,123	-1,163	+1,70,286	.....	+1,70,286	...

13 (a). The following statement shows the rate of expenditure on Agricultural Works per acre of area irrigated after excluding the cost of the surveys for definite projects :—

STATEMENT E.

Total area irrigated by all classes of works.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated (column 2 ÷ column 1).	Expenditure on Agricultural works (excluding the cost of surveys for special projects).	Rate of expenditure on Agricultural works per acre of area irrigated (column 4 ÷ column 1).	Total working expenses per acre of area irrigated including expenditure on Agricultural works (column 3 + column 5).
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
1,330,411	12,60,090	0.9	1,79,031	0.1	1.0

The total working expenses including expenditure on Agricultural Works come to Re. 1.0 per acre of total area irrigated.

14. There were 1,062 miles of main canals and 2,937 miles of branch canals—(total 3,999 miles)—in operation during the year against the previous year's total mileage of 3,997. The increase of two miles is detailed in Table V. The total length of the river embankments was 362 miles against the previous year's mileage of 360. The increase of 2 miles is accounted for by the construction of a bund between the Nasrat and the Naulakhi in the Northern Hyderabad Canals District and by the extension of the new Jamshora Bund and the construction of a loop to Gidu Bund in the Fuleli Canals District.

Area of principal crops—
Government and Jaghir.

15. The areas of the principal crops grown during the year were :—

STATEMENT F.

Crops.	1909-1910.			Average for 5 years.	1908-09.	Increase or decrease as compared with average.	Increase or decrease as compared with 1908-09.
	Lift.	Flow.	Total.				
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif	Rice	4	367,130	340,163	324,175	+26,966	+42,959
	Jowári	74,484	89,424	113,908	127,383	-13,475	-37,581
	Bājri	332,156	91,300	423,456	451,372	-27,916	-66,877
	Cotton	110,918	86,267	197,185	243,653	-46,473	-55,410
	Other crops	22,929	18,180	41,109	38,988	+2,121	+2,032
Total	540,491	602,301	1,142,792	1,201,569	1,257,669	-58,777	-114,877
Rabi	Wheat	10,161	89,029	99,190	153,260	-54,070	+22,834
	Barley	273	3,887	4,160	4,423	-268	+809
	Oil seeds	2,215	69,014	71,259	108,332	-37,073	-74,523
	Other crops	3,830	40,184	44,014	51,779	-7,765	-10,994
	Total	16,479	202,144	218,623	317,799	280,497	-99,176	-61,874
Grand Total	556,970	804,445	1,361,415	1,519,368	1,538,166	-157,953	-176,751

With the exception of rice, all the crops were less than the previous five years' average; and compared with last year, rice, wheat and barley were in excess, but all the other crops showed a decrease in area. The wheat area was 22,834 acres or 30 per cent. over last year's figure, while rice shows an increase of 42,959 acres, *viz.*, 13 per cent. and 26,966 acres, *viz.*, 8 per cent., over the areas of the previous year and of the previous 5 years, respectively. The area under cotton shows decreases of 55,410 acres or 22 per cent. and 46,473 acres or 19 per cent. when compared with the previous year and the average for 5 years. The decrease is spread over most of the districts, but the Jamrao shows the largest, *viz.*, 37,423 acres; the Nasrat in the Northern Hyderabad Canal District is next with 10,100 acres, then the Eastern Nara District with 5,437 acres. The decrease is due to the insufficient supply of water in the beginning of the season. The Central Hyderabad Canals District alone shows a small increase of 1,400 acres.

16. The proportions of kharif and rabi, out of the total area irrigated in the Division, were 84 and 16 per cent. as compared with 82 and 18 of last year. The highest kharif percentage of 93 is in the Central Hyderabad Canals District and the lowest 74 per cent. on the Jamrao Canal District, while the Eastern Nara, Northern Hyderabad Canals and Fuleli had respectively 77, 83 and 87 per cent. The Fuleli Canals and the Eastern Nara Districts had as usual the largest rice areas with 234,108 acres and 113,003 acres respectively out of the total rice cultivation of the Division of 367,134 acres. The largest areas under bajri were in the Central Hyderabad Canals and the Fuleli Canals Districts and the largest under jowári as usual was in the Northern Hyderabad Canals District. Out of the total cotton area of 179,185 acres in the Division, 74,828 acres were irrigated on the Jamrao, the Central Hyderabad Canals coming next with 65,243 acres.

Of the rabi crops wheat was largely grown on the Jamrao and in the Eastern Nara Districts, 32,452 acres and 32,068 acres respectively out of a total for the Division of 99,190 acres. The smallest area cultivated with wheat is in the Central Hyderabad Canals District. The area cultivated with oil-seeds was the largest in the Northern Hyderabad Canals District with 30,515 acres, the second being the Fuleli District with 19,997 acres.

Of the total area cultivated during the year, 41 per cent. was watered by lift, and 59 per cent. by flow, against 39 and 61 per cent. respectively, during the previous year.

17. The duties and deltas of canals in this Division show the usual fluctuation of values.

The kharif duty on the Jamrao has fallen from 77 to 60 and the rise in the delta is from 4.4 to 6.1. The rabi duty has risen from 22 to 25 and the delta

reached the high figure of 14·0. In both cases the low duty was due to the necessity of running far more water down the canal than was actually required to irrigate the limited area of cultivation scattered over the whole district, and in the rabi season, especially in October and November, the kharif cotton was still being watered, but is not taken account of in calculating the duty. The average discharge measured for 358 days on which the canal was flowing was 1,996 cusecs. The total area brought to maturity was 175,315 acres, so each cusec irrigated only 88 acres against 132 acres as given in the previous year.

On the Dad the duty and delta were 29 acres and 7·4 feet against 32 and 6·8 of last year. The water-supply was better but the area irrigated smaller.

On the Nasrat the duty and delta were 53 acres and 4·2 feet against 62 and 3·9 in the previous year, probably due to a reduced area of irrigation.

On the Mithrao the kharif duty and delta were 40 acres and 7·6 feet against the previous year's figures of 64 and 4·3, but the figures this year are for the period ending 31st instead of 15th October. If water used after 31st October for soaking kharif lands for the next year were included, the kharif duty would be lower still. The canal flowed for 152 days against the previous kharif period of 138 days. The rabi duty and delta of 56 acres and 4·3 feet from 1st November are better than last year's figures of 21 acres and 17·3 feet. The figures would be better, if they were not made to include water given after 31st October for soaking lands for kharif. The area of rabi increased by 12,238 acres. The average canal discharge decreased from 372 to 355 and of course the number of days of flow was less, *viz.* 120 days.

On the Hiral Canal the kharif duty and delta were .94 acres and 3·3 feet against the previous year's figures of 127 and 2·2, while the rabi improved slightly with 28 acres and 10·8 feet against the previous year's 15 and 24·3. The high duties are due to lift cultivation.

On the Ithar Canal the duty and delta are 36 and 10·2. This is practically a rice canal.

The Khipro Canal had a duty and delta of 65 acres and 4·2 feet compared with 39 and 8·9 of the previous year. The average canal flow was 87 cusecs for 138 days compared with 104 cusecs for 173 days in the previous year.

On the Fuleli, the kharif duty and delta were 49 acres and 7·5 feet against the previous year's 57 and 6·4. This is due to the plentiful supply coming late. The rabi duty and delta were 45 acres and 7·2 feet against previous year's 66 and 4·8. The Fuleli cultivators are not fond of rabi; there is always far more water than they require.

The duty on the Hasanali was 27 against 43 of the previous year, which was the highest on record. The delta rose from 6·7 to 9·6.

18. On 'Major Works' the incidence of working expenses on the assessed revenue and per acre irrigated were 42·38 per cent. and Rs. 1·21 per acre, as compared with 44·23 per cent. and Rs. 1·13 per acre in the previous year.

Under 'Minor Works' the incidence of working expenses on assessed revenue and per acre irrigated were 34·06 per cent. and Re. 0·74 per acre, as compared with 28·11 per cent. and Re. 0·59 per acre of last year. Details are given in Statement II-E.

19. Statement III-E shows the approximate values of each kind of crop irrigated during the year. The total value of the crops grown on the irrigated area of 1,361,415 acres was estimated by the Revenue Authorities at Rs. 3,14,18,366, which gives an average of Rs. 23 per acre.

20. The following paragraphs give details of different works or groups of works.

I.—MAJOR WORKS.

PRODUCTIVE PUBLIC WORKS.

21. *A.—Eastern Nara System.*

Capital.—The year's outlay was Rs. 13,811 and was spent on the detailed survey and the preparation of plans and estimates for the Eastern Nara Project and on the survey of the diversion of the Ghotki and other floods from entering the Nara Supply Channel.

Extensions and Improvements.—A small sum of Rs. 2,062 was spent during the year.

Maintenance and repairs.—All the canals were maintained in good order at a cost of Rs. 1,19,782 on 'Works' and 'Works Establishment'.

Irrigation.—The total area irrigated was 219,457 acres, of which 169,926 acres were under kharif and 49,521 acres were under rabi. The decrease of 46,490 acres under rabi compared with the previous year's rabi is due to no cultivation having been done on flood water. The decrease of 20,958 acres under kharif is due to the late inundation and consequent insufficient supply in the beginning of the kharif season.

Financial results.—The gross revenue of this system under all heads was Rs. 5,90,320 and the working expenses amounted to Rs. 2,05,290. After allowing for old irrigation, the net revenue was Rs. 3,81,930, representing 5.64 per cent. on the capital outlay as against 5.31 per cent. in the last year.

General Remarks.—The amount remitted during the year was Rs. 19,356 compared with Rs. 22,214 remitted last year. Of this sum, Rs. 18,137 were remitted on account of drought, Rs. 116 on account of floods, Rs. 153 due to damage by rats, Rs. 923 on account of locusts and Rs. 27 on account of land acquired by the North Western Railway.

The principal crops grown were :—

				Acres.
Rice	...	...	...	113,003
Báji	...	...	...	34,270
Wheat	...	...	...	32,068
Cotton	...	...	...	20,543
Oil-seeds	...	...	...	7,583

and the total value of the outturn is estimated at Rs. 53,33,425.

22. *B.—Jamrao Canal.*

Capital.—The capital outlay during the year was Rs. 85,398, which was spent on earthwork and on collection of materials for the 46th, 56th and 65th mile Projects, Jamrao Canal, and on excavating the drainage channel in the Dhoro Puran commenced in the previous year.

Extensions and Improvements.—Rs. 3,076 only was spent during the year.

Maintenance and repairs.—The canal and its branches were maintained in good order at a cost of Rs. 1,37,236 including Works Establishment. The conditions at the Head Works continued satisfactory and the groynes in the first 10 miles were maintained and are working well.

Irrigation.—The total area irrigated was 179,937 acres, of which 137,713 acres were under kharif and the rest under rabi. This shows a decrease of 27,998 acres when compared with last year, and compared with the average of the previous 5 years, the decrease was 69,561 acres. The decrease is almost entirely in the kharif season, and is due to the short supply in the early part of the season, accentuated by the scarcity of labour.

Financial Results.—The gross revenue amounted to Rs. 5,94,394 and the working expenses to Rs. 3,05,268, giving a net revenue of Rs. 2,89,126, which is 3.51 per cent. on the capital outlay to end of year, as compared with last year's percentage of 1.40.

General Remarks.—The remissions granted during the year amounted to Rs. 14,928 against the last year's remissions of Rs. 45,317 and were mainly due to floods and concessions to colonists. The principal crops were cotton 74,828 acres, bajri 48,232 acres and wheat 32,452 acres against last year's 112,251, 62,421 and 13,147 acres respectively. The shortage in cotton is due to the deficiency of supply early in the season. The total value of crops on this canal was estimated at Rs. 51,36,652. The average rainfall in the district was 6'41 inches.

23. *C.—Dad Canal.*

Capital.—The outlay during the year was Rs. 10,850 and was spent on earthwork, Dad and Sohrabwah, and on constructing Karia head regulators.

Extensions and Improvements.—A small sum of Rs. 1,020 was spent on 'Works' only.

Maintenance and repairs.—The canal and its branches were maintained in an efficient order at a cost of Rs. 64,069 including Works Establishment.

Irrigation.—The area irrigated was 113,957 acres, of which 91,071 acres were under kharif against the previous year's 93,401 acres. The rabi was 22,886 acres against last year's 26,289 acres. The slight decrease in cultivation is due to the late inundation, otherwise the water-supply was very satisfactory, and the canal is daily gaining in the estimation of the people so that almost all the land on it including high lift land is taken up.

Financial Results.—The gross revenue amounted to Rs. 2,75,350 and working expenses to Rs. 1,05,356. After allowing for old irrigation, the net revenue due to improvements was Rs. 1,31,295 or 5'59 per cent. on the capital outlay to the end of the year compared with the last year's percentage of 5'29.

General Remarks.—The remissions amounted to Rs. 2,051 against Rs. 6,303 granted last year and were mainly due to concessions to colonists. The areas of the principal crops were :—

				Acres.
Bajri	...	...	...	40,024
Jowari	...	...	...	24,462
Oil-seeds	...	...	...	16,146
Rice	...	...	...	10,972
Other crops	...	...	...	9,241
Cotton	...	...	...	7,651

and the value of the whole outturn is estimated at Rs. 32,35,554.

24. *D.—Nasrat Canal.*

Capital.—The expenditure of the year was Rs. 24,349 and was incurred on bridging roads in the squared area of the Nasrat, on head regulators over Karias and distributaries, on extension of the Nasrat Canal to bring two new dehs under command, on constructing Signaller's quarters at mile 16 Nasrat and on fixing mile, bed and tally stones along canals.

Extensions and Improvements.—A sum of Rs. 1,032 was spent on 'Works' only.

Maintenance and repairs.—The canal and its branches were maintained at a cost of Rs. 51,752 including Works Establishment.

Irrigation.—The total area irrigated was 87,382 acres compared with last year's area of 124,111 acres and 16,699 acres less than the cultivation anticipated in the Project for this year. The cultivation under both kharif and rabi is 14,591 and 22,138 acres less than the kharif and rabi of last year. This decrease is accounted for by silt deposits in the Lundi Dhand, the feeder of the Nasrat, resulting in deficient supply at the beginning and the end of the season.

Financial Results.—The gross revenue amounted to Rs. 2,67,685 and the working expenses to Rs. 86,087. Allowing for old irrigation, the net revenue

due to improvements was Rs. 1,28,552 or 6.91 per cent. on the capital outlay to the end of the year against the last year's percentage of 9.62.

General Remarks.—The remissions amounted to Rs. 11,706 against Rs. 26,276 granted during the last year and are mainly accounted for by deficiency of supply, by floods and erosion and by concessions to colonists.

The areas of the principal crops were :—

					Acres.
Bájri	...	...	...	...	28,972
Jowári	...	...	...	...	28,938
Oil-seeds	...	...	...	...	12,945
Cotton	...	...	...	...	10,020

and the value of the out-turn is estimated at Rs. 22,42,536.

II.—MINOR WORKS AND NAVIGATION.

A.—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

25.

1.—Fuleli Canal.

Extensions and Improvements.—A sum of Rs. 5,091 'Works' only was spent on constructing some landhies for canal establishment on sluices over zemindari karias, etc.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 1,58,325 including Works Establishment.

Irrigation.—The total area irrigated was 370,843 acres, of which 321,738 acres were under kharif and 49,105 acres were under rabi, compared with last year's kharif and rabi areas of 330,473 and 49,692 acres respectively. The slight decrease in the kharif area was due to the late inundation.

Financial Results.—The gross revenue amounted to Rs. 8,13,110 and the working expenses to Rs. 2,70,990 which gives a net revenue of Rs. 5,42,120. The net revenue due to improvements, after deducting for old revenue, was Rs. 4,13,932 representing 20.86 per cent. on the capital outlay to the end of the year as compared with 20.68 per cent. last year.

General Remarks.—The remissions amounted to Rs. 8,269 as compared with Rs. 29,334 granted during the last year and were mainly due to damage by rats and to erosion.

The principal crops grown were :—

					Acres.
Rice	...	...	...	...	211,227
Bájri	...	...	...	...	83,244
Oil-seeds	...	...	...	...	18,688
Cotton	...	...	...	...	17,524
Wheat	...	...	...	...	13,233

and the estimated value of the out-turn was Rs. 62,78,336.

26.

2.—Hasanali Canal.

Capital—A sum of Rs. 3,382 was spent on completing the second head regulator over the Hasanali Canal on the Katiar Loop commenced last year about 5,200 feet below the previous one.

Extensions and Improvements.—A small sum of Rs. 863 only was spent during the year.

Maintenance and Repairs.—The canal and its distributaries were maintained in good order at a cost of Rs. 16,979 inclusive of Works Establishment.

Irrigation.—The area irrigated on this canal was 17,785 acres, of which 17,440 were under kharif and the rest under rabi. The cultivation under kharif shows an increase over the last year's of 1,007 acres.

Financial Results.—The gross revenue amounted to Rs. 43,247 and working expenses to Rs. 25,976. The net revenue due to improvements after deducting for old revenue was Rs. 14,813 which is 5.02 per cent. on the capital outlay to the end of the year against 1.7 per cent. last year.

General Remarks.—The remissions amounted to Rs. 521 only, and were due to damage caused by rats.

The principal crops grown were :—

					Acres.
Rice	...	...	...	...	11,998
Bajri	...	...	...	...	4,894

and the value of the out-turn is estimated at Rs. 5,09,386.

27.

3.—*Alibhar Kacheri.*

Maintenance and Repairs.—The canal was maintained in working order at a cost of Rs. 3,688 including the Works Establishment.

Irrigation.—The area irrigated was 12,053 acres, of which only 285 acres were under rabi.

Financial Results.—The gross revenue was Rs. 27,022 and working expenses were Rs. 6,859. The net revenue due to improvements after deducting for old revenue was Rs. 11,924 or 49.86 per cent. on the capital outlay of Rs. 23,917 to end of the year.

General Remarks.—No remissions were granted during the year. The principal crops were bajri 7,821 acres and cotton 2,224 acres and the value of the whole out-turn is estimated at Rs. 3,77,414.

28.

4.—*Great Marak.*

Maintenance and Repairs.—The canal was maintained at a cost of Rs. 19,811 including the Works Establishment.

Irrigation.—The area irrigated was 60,081 acres, of which only 3,311 acres were under rabi.

Financial Results.—The gross revenue was Rs. 1,47,724 and the working expenses amounted to Rs. 35,723. The net revenue due to improvements, after deducting old revenue, was Rs. 75,969 or 35.21 per cent. on the capital outlay of Rs. 2,15,746 to end of the year.

General Remarks.—Remissions granted during the year were Rs. 240 only due to floods.

The principal crops were bajri 32,905 acres and cotton 18,305 acres, and the whole out-turn is valued at Rs. 18,49,690.

29.

5.—*Sarfraz.*

Maintenance and Repairs.—The canal was maintained in good order at a cost of Rs. 13,749.

Irrigation.—The area irrigated was 33,870 acres, of which only 1,205 acres were under rabi.

Financial Results.—The gross revenue was Rs. 62,216 and the working expenses were Rs. 21,504. After deducting for old revenue, the net revenue due to improvements was Rs. 29,727 representing 23.84 per cent. on the capital outlay of Rs. 1,24,680 to end of the year.

General Remarks.—No remissions were granted during the year.

The principal crops were :—

				Acres.
Bajri	...	...	...	22,478
Cotton	...	...	...	7,454

and the value of the whole outturn is estimated at Rs. 6,69,805.

B.—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

30. (1)—Northern Hyderabad Canals District.

The principal canals under this classification are the Merab, the Naulakhi and the Dambro.

Extensions and Improvements.—A sum of Rs. 8,769 was spent on “Works” only, chiefly on completing the New Cut to the Naulakhi at its 8th mile and on giving a new mouth to the Mehrabwah.

Maintenance and Repairs.—The expenditure was Rs. 50,715 including the Works Establishment.

Irrigation.—The area irrigated was 88,256 acres, of which 76,496 acres were under kharif and 11,760 acres under rabi. The decrease of 8,458 acres on last year’s area is due partly to the late rise of the river and partly to slight erosion at the heads of the Lundi and Mohbat Dhands feeding the Merab and the Naulakhi Canals respectively.

Financial Results.—The canal revenue was Rs. 2,15,432 and the revenue charges were Rs. 77,238, which represents 35·9 per cent. on the revenue and Re. 0·9 per acre irrigated.

General Remarks.—The remissions amounted to Rs. 119 only against Rs. 2,751 granted last year. The decrease is due to the water-supply being sufficient for the area cultivated.

31. (2)—Central Hyderabad Canals District.

The principal canals are the Ren, Gharo Mahmudo, Kari Shumali and the Nasir.

Extensions and Improvements.—A sum of Rs. 3,401 on “Works” only was spent during the year.

Maintenance and Repairs.—All the canals were maintained in good order at a cost of Rs. 51,556 including the Works Establishment.

Irrigation.—The area irrigated was 152,869 acres, of which only 14,507 acres were under rabi.

Financial Results.—The total canal revenue amounted to Rs. 3,17,249 and the total revenue charges were Rs. 81,939 which gives 25·8 per cent. on the revenue and Re. 0·5 per acre irrigated.

General Remarks.—Remissions to the extent of Rs. 131 only were granted and were due to floods.

32. (3)—Fuleli Canals District.

There are only a few small canals under this head which take off direct from the Indus.

Maintenance and Repairs.—The canals were maintained at a cost of Rs. 15,219 including the Works Establishment.

Irrigation.—The area irrigated was 24,935 acres, of which 20,942 acres were under kharif.

Financial Results.—The canal revenue amounted to Rs. 60,393 and the revenue charges were Rs. 22,607 which represents 37.4 per cent. on the revenue and Re. 1.0 per acre irrigated.

General Remarks.—The remissions granted during the year were Rs. 1,353 against Rs. 13,974 granted last year, and were mainly due to damage caused by rats.

C —WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE
ACCOUNTS ARE KEPT.

33. *Agricultural Works.*

Extensions and Improvements.—A sum of Rs. 19,669 on “Works” only was spent on (1) extending the Jamshora Bund to Sapki Mian, (2) constructing a bund between the Nasrat and the Naulakhi, (3) detailed survey of the Rohri-Hyderabad Canal Project and (4) on the Naulakhi Bhorti Bund.

Maintenance and Repairs.—All the bunds were maintained in good order at a total cost of Rs. 1,25,740 inclusive of the Works Establishment. Of this sum, Rs. 1,21,755 were spent on bunds in the Fuleli Canals District, Rs. 2,590 on the Naulakhi Bhorti Bund in the Northern Hyderabad Canals District and Rs. 686 on Renwah Loop Bund in the Central Hyderabad Canals District.

General Remarks.—In order to stop spill water of the river from damaging the cultivation between the Nasrat and the Naulakhi Canals, the bund between the two was sanctioned and work was started. The water touched the Naulakhi Bhorti Bund in the first 5 miles only. In the Fuleli Canals District, the water lay against all the river embankments but timely precautions were taken and the danger of breaches was averted by putting in juckwork and spreading mats over the water side slopes.

34. The expenditure on, and receipts from, gardens during the year is compared with the two previous years in the statement given below :—

Year.	Expenditure on maintenance.	Receipts.	
		As estimated.	Actuals.
	Rs.	Rs.	Rs.
1907-1908	4,734	2,250	2,424
1908-1909	4,184	2,250	2,027
1909-1910	4,983	2,250	1,480

The decrease in receipts was due to complete failure of the mango crop in Sindhri and Samara gardens due to the attacks of the “Mahla” fly. The Hiral garden owing to bad soil is never expected to yield a good crop.

35. During the year about 10,725 new young trees of various kinds other than babul were reared in canal gardens and nurseries. Of the 8,779 trees of various kinds planted along canals and bunds during the year, 7,718 trees were alive at the end of the year. Besides these, about 12,500 babul trees were planted along canal banks and river embankments. Of the latter, 6,000 young babul trees, which were doing well, suffered by submersion when the river rose. The goat's-foot creepers planted along the Sarfraz and the Khesano Canals in the Central Hyderabad Canals District to prevent sand drifting into canals are doing well, but take a long time to spread and entail a large expenditure on watering. A new variety of creepers called the “Thur” plant has been sown about 400 on the Sarfraz and 80 on the Khesano and the result will be reported next year.

36. The Division was in charge of Mr. T. Barclay Robertson for . months and 5 days and of Mr. H. F. Beale for 2 months and 26 days.

The following officers were in charge of Executive Districts :—

District.	Executive Engineer.	Months in charge.
Northern Hyderabad Canals District ...	Mr. C. D. A. McIver ...	M. d. 12 0
Central Hyderabad Canals District ...	Mr. A. Nazareth ...	12 0
Fuleli Canals District ...	Mr. K. S. Framji ...	6 0
	Mr. C. F. Simon ...	1 11
	Mr. A. F. Thorpe ...	4 19
Eastern Nara District ...	Mr. V. M. Griffiths ...	6 4
	Mr. B. E. Vachha ...	5 26
Jámrao Canal District ...	Mr. D. R. H. Browne ...	6 27
	Mr. C. M. Lane ...	1 14
	Mr. J. K. Williams ...	3 20

All the officers worked satisfactorily.

36A. Besides the above Executive Engineers, the undermentioned officers were employed on special projects :—

Name of Project.	Names of Officers in charge.	Months in charge.
Eastern Nara Improvement ...	Mr. B. E. Vachha ...	8
Diversion of Ghotki Floods ...	Do. ...	4
Rohri-Hyderabad Canals ...	Mr. V. N. Parulekar ...	9

H. F. BEALE, M.Inst.C.E.,
Superintending Engineer, Indus Left Bank Division.

Below No. 225, dated 13th January 1911, from the Superintending Engineer, Indus Left Bank Division.

No. C. E.-51 OF 1911.

PUBLIC WORKS DEPARTMENT.
Office of the Chief Engineer in Sind,
Karachi, 17th January 1911.

Passed on with compliments to the Joint Secretary to Government, Public Works Department, Bombay.

W. L. STRANGE,
Chief Engineer in Sind.

Through the Commissioner in Sind. •

TABLE I.

Cultivation and Water-share of net consolidated revenue for 1909-1910 and the three previous years.

Canals and Executive Districts.	1906-1907.		1907-1908.		1908-1909.		Average.		1909-1910.		
	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.	
1	2	3	4	5	6	7	8	9	10	11	
MAJOR WORKS.											
PRODUCTIVE WORKS.											
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.											
<i>Canals in Operation.</i>											
Begári Canals District.	Desert Canal ...	119,920	2,68,622	75,749	1,49,247	124,166	2,65,680	106,612	2,27,483	110,416	2,32,413
	Unharwáh ...	75,823	1,75,874	68,009	1,56,475	81,001	1,84,319	73,878	1,72,223	79,373	1,51,047
	Begári Canal ...	211,855	5,24,019	213,091	5,78,979	231,506	5,94,395	216,304	5,67,131	187,519	5,20,995
	Total ...	407,598	9,72,515	357,449	8,84,711	428,535	10,44,394	397,794	9,67,217	367,307	9,39,715
Shikárpur Canals District ...	Mahiwáh	61,644	2,22,439	69,196	1,92,248	89,093	2,41,748	80,378	2,15,478	75,604	2,03,615
Jámráo Canal District ...	Jámráo Canal ...	242,430	6,80,158	205,332	5,81,904	202,045	5,48,869	216,632	6,13,667	171,255	4,89,012
Northern Hyderabad Canals District.	Dád Canal ...	84,706	2,17,352	82,440	1,84,304	106,807	2,67,657	94,501	2,23,134	90,413	2,55,074
	Nasrat Canal ...	133,579	2,71,608	83,471	1,80,631	119,372	3,11,002	115,474	2,54,424	84,081	2,53,483
	Total ...	228,285	4,88,960	175,911	3,65,065	226,079	5,78,659	210,065	4,77,558	183,104	5,00,157
Eastern Nára District.	Nára Supply Channel ...	9,419	25,492	6,007	14,391	10,108	21,747	8,561	21,523	3,435	8,908
	Eastern Nára ...	185,213	1,95,048	32,940	44,747	85,195	1,14,090	84,449	1,18,136	90,806	59,438
	Mithrao Canal ...	139,766	3,42,044	100,440	2,64,032	104,166	2,70,513	116,121	2,95,106	99,174	2,86,109
	Tbar Canal ...	52,985	1,29,917	44,038	1,30,592	44,830	1,36,717	47,286	1,36,425	45,754	1,43,493
	Khípra Canal ...	7,918	10,189	8,714	5,077	4,078	5,408	5,236	6,390	5,589	8,713
	Heran Canal ...	2,605	5,765	1,678	3,540	1,077	2,138	1,763	3,813	1,168	2,355
	Híral Canal ...	22,471	35,000	13,818	37,704	15,478	43,513	17,100	37,941	15,329	42,189
	Total ...	370,277	7,44,060	202,273	5,09,023	268,846	6,06,085	280,512	6,19,923	217,347	5,07,841
	Total, Major Works ...	1,330,334	31,08,730	1,010,181	25,23,013	1,215,533	30,19,765	1,180,351	28,83,383	1,024,747	26,92,240
43.—MINOR WORKS.											
IRRIGATION AND NAVIGATION.											
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.											
<i>Canals in Operation.</i>											
Ghár Canals District.	Sukkur Canal ...	87,403	2,63,045	79,694	2,37,041	93,315	2,73,013	86,705	2,54,323	88,409	2,50,251
	Ghár Canal ...	271,609	8,87,800	200,410	6,17,221	268,014	8,17,917	239,710	7,74,316	220,715	7,34,324
	Total ...	359,012	11,51,745	280,104	8,54,262	361,349	10,91,930	326,415	10,28,639	309,224	9,84,575
Karachi Canals District.	Suttah Canal ...	14,453	85,100	14,444	20,414	16,911	23,542	13,283	29,347	10,253	37,911
Central Hyderabad Canals District.	Allíhar Kacheri ...	10,821	23,248	9,705	21,757	10,311	23,548	10,112	22,804	10,440	25,270
	Mávrak ...	56,673	1,50,022	54,276	1,30,061	8,807	1,51,710	56,419	1,41,131	63,803	1,89,508
	Sartraz ...	27,264	59,432	25,833	61,045	30,731	61,201	27,943	54,266	27,652	65,216
	Total ...	94,258	2,39,342	89,004	2,08,963	99,849	2,39,549	94,564	2,26,231	91,655	2,20,020
Fuleli Canals District.	Fuleli Canal ...	344,193	8,00,813	241,527	6,04,891	304,622	7,07,004	311,447	7,04,236	305,096	7,20,900
	Hasanali Canal ...	19,244	17,925	13,306	31,817	16,244	3,684	16,278	30,142	18,940	43,304
	Total ...	363,437	8,24,738	254,833	6,36,708	320,866	7,44,688	327,725	7,34,378	324,036	7,73,204
Total, Minor Works, Capital and Revenue Accounts ...		881,240	22,42,020	684,316	17,32,277	802,545	20,99,069	7,74,083	20,24,655	737,266	20,24,870
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.											
<i>Canals in Operation.</i>											
Shikárpur Canals District.	Canals in Rohri ...	51,271	1,64,790	42,166	1,24,073	50,616	1,88,339	51,014	1,59,370	47,240	1,53,666
	Sind Canal ...	89,801	3,04,609	66,611	2,20,138	90,040	3,01,705	82,161	2,75,493	62,956	2,15,912
	Rajih Canal ...	9,658	36,482	8,633	33,093	9,776	37,874	9,289	36,046	8,262	33,604
	Chitti Canal ...	10,513	40,725	10,774	41,080	11,464	44,360	10,817	42,435	8,200	36,209
	Garang Canal ...	6,983	22,549	6,200	21,901	6,012	22,297	6,098	22,249	4,513	17,281
	Total ...	167,986	5,69,164	131,434	4,41,990	178,708	5,94,515	169,509	5,37,223	131,791	4,57,071
Western Nára District.	Nára ...	251,216	8,29,367	217,072	7,07,510	252,474	8,17,639	240,554	7,84,339	220,203	7,59,266
	New Feeder, Western Nára ...	1,641	5,476	1,166	3,916	1,647	5,611	1,445	5,011	1,439	5,325
	Wahur ...	2,440	7,614	2,203	6,557	2,555	7,681	2,412	7,244	2,484	7,210
	Marvi ...	5,331	14,755	3,056	9,449	5,752	14,722	4,913	12,775	4,624	12,528
	Pritchard Canal ...	9,620	29,240	9,141	26,929	10,942	32,916	9,919	27,705	9,329	30,661
	Dádu Canals ...	10,284	23,980	6,809	13,650	12,150	28,402	9,746	22,030	9,754	22,185
	Manohar ...	22,338	63,848	11,804	32,261	15,578	36,175	16,524	40,775	11,484	30,466
	Aral ...	7,535	20,511	5,034	14,219	11,054	31,522	7,874	22,084	8,695	23,512
	Other Canals, north of Kotri ...	12,146	28,437	9,021	17,563	10,779	25,746	10,649	24,929	11,487	28,049
	Phitta Canal ...	5,512	13,213	5,211	11,339	6,372	14,733	5,698	13,065	4,974	10,507
	Total ...	329,087	10,26,481	272,017	8,43,093	329,353	10,15,277	309,812	9,61,617	264,189	9,28,959
Northern Hyderabad Canals District.	Mehrabwáh ...	14,257	33,590	10,664	24,025	18,441	37,580	12,927	30,401	12,594	27,953
	Nauákhí ...	46,177	1,24,357	32,979	78,267	51,977	1,40,916	48,711	1,14,520	46,907	1,26,205
	Dámro ...	13,683	35,866	12,199	31,260	12,932	34,097	12,955	33,741	13,548	34,119
	Other Canals ...	10,274	24,922	8,559	20,946	11,581	28,363	10,238	24,710	10,063	24,549
	Total ...	84,391	2,18,935	64,721	1,54,518	90,381	2,36,965	78,931	2,03,372	82,912	2,12,826
Central Hyderabad Canals District.	Ghazro Mahmúdo ...	62,418	1,50,604	57,148	1,34,349	64,061	1,55,851	61,209	1,44,935	61,340	1,50,048
	Kari Shumáli ...	30,410	65,638	27,013	55,000	30,963	63,667	29,459	61,069	28,352	64,907
	Nasir ...	33,872	76,280	32,019	70,235	36,145	85,150	34,012	77,233	32,263	75,656
	Renwáh ...	3,234	7,107	675	1,487	852	1,997	5,530	934	2,481	
	Other Canals ...	6,946	15,825	3,984	8,607	4,707	11,137	5,212	11,858	5,185	11,814
	Total ...	136,880	3,15,404	120,838	2,69,731	136,718	3,22,702	131,479	3,02,613	128,074	3,04,796

TABLE I—concluded.

Canals and Executive Districts.	1906-1907.		1907-1908.		1908-1909.		Average.		1909-1910.	
	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.
1	2	3	4	5	6	7	8	9	10	11
MINOR WORKS—concluded.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.
IRRIGATION AND NAVIGATION—concluded.										
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.										
<i>Canals in Operation—concluded.</i>										
Sindhi Canals District—Other Canals ...	29,315	32,135	18,035	41,381	21,829	46,584	29,060	89,993	21,396	57,485
<i>(Canals in Tatta, &c....</i>	15,120	18,707	11,095	17,959	15,043	8,226	13,752	14,964	10,895	19,051
<i>Kalri ...</i>	17,167	31,423	13,497	25,494	17,928	25,758	16,196	27,558	17,441	36,783
<i>Baohar ...</i>	32,325	52,845	25,916	36,203	32,485	46,142	30,242	45,064	32,514	57,131
<i>Uchito ...</i>	13,991	18,741	12,411	16,455	13,565	17,888	13,322	18,028	14,775	21,275
<i>Pinyari ...</i>	89,054	2,09,162	73,018	1,65,271	90,765	1,65,163	94,279	1,76,532	81,804	2,15,547
<i>Canals in Mirpur Bathoro ...</i>	13,153	35,699	11,468	24,360	11,570	30,227	12,164	30,055	12,754	34,505
<i>Canals in Sujawal ...</i>	8,965	22,532	8,482	18,154	12,303	9,226	9,914	16,637	10,347	26,301
<i>Canals in Jati ...</i>	2,662	7,202	2,230	5,941	2,789	6,144	2,664	6,429	3,387	7,920
<i>Khanto ...</i>	5,271	11,074	4,497	8,890	4,736	7,933	4,835	9,299	5,142	11,469
<i>Canals in Shāhbandar ...</i>	1,716	8,817	1,613	3,013	1,895	1,941	1,732	2,924	2,078	4,679
<i>Kokawari ...</i>	16,483	36,984	13,821	25,158	15,085	29,436	14,963	30,526	15,747	34,674
Total ...	215,900	4,49,156	177,548	3,46,898	218,442	3,38,084	203,963	3,78,046	206,632	4,69,244
Total, Minor Works, Revenue Accounts only...	961,939	26,10,975	787,593	20,97,511	973,431	25,54,107	907,654	24,20,864	855,185	24,30,370
AGRICULTURAL WORKS.										
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.										
Begāri Canals District, Kashmir Bund ...	8,002	18,714	8,846	17,381	8,927	17,969	8,525	18,021	6,974	13,532
Shikārpur Canals District, Bunds in Rohri ...	...	...	...	...	...	...	...	...	...	...
<i>Shikārpur-Begāri Bund ...</i>	9,162	39,054	7,012	24,565	8,949	31,816	8,341	29,912	5,203	19,044
<i>Kāsimpur Bund ...</i>	3,677	11,912	2,361	7,135	3,079	9,426	3,036	9,491	1,089	3,470
Total ...	12,839	44,966	9,373	31,700	11,928	41,242	11,377	39,303	6,292	22,514
Ghār Canals District, Ghār Bunds ...	1,256	4,348	585	2,251	1,166	4,013	999	3,537	1,193	4,316
Western Nāra District, Nāra Bunds ...	5,987	16,547	3,425	10,794	5,178	15,637	4,857	15,059	2,466	8,786
<i>Bunds, north of Kotri ...</i>	1,024	2,518	366	492	561	1,435	650	1,478	770	2,174
Total ...	6,991	21,065	3,791	11,276	5,739	17,272	5,507	16,537	3,236	10,960
Karachi Canals District, Bunds, Right Bank ...	5,591	9,010	4,558	8,446	5,812	4,166	5,930	7,207	5,490	9,608
<i>Bunds, Left Bank ...</i>	4,195	10,614	3,097	3,199	8,617	4,123	3,637	5,946	4,058	11,037
Total ...	9,786	19,624	7,655	11,645	9,429	8,189	9,567	13,153	9,548	20,645
Total, Agricultural Works ...	38,874	1,09,717	80,070	74,253	37,179	88,685	35,375	80,561	27,243	71,967
Indus Right Bank Division, Begāri Canals District ...	415,400	9,91,229	366,095	9,02,122	437,462	10,62,363	409,319	9,85,238	394,281	9,53,247
<i>Shikārpur Canals District ...</i>	262,169	8,36,569	212,993	6,55,938	273,629	8,77,605	251,264	7,90,004	213,777	6,83,100
<i>Ghār Canals District ...</i>	380,357	11,56,093	289,669	8,56,553	362,505	10,95,883	337,510	10,36,176	308,457	9,97,791
<i>Western Nāra District ...</i>	345,058	10,47,546	278,808	8,54,369	335,092	10,32,549	315,319	9,78,154	287,416	9,39,919
<i>Karachi Canals District ...</i>	240,139	5,03,975	199,717	3,87,957	244,812	3,69,625	228,223	4,20,586	232,633	5,27,800
Total ...	1,613,123	46,35,412	1,344,282	36,56,939	1,658,500	44,38,125	1,538,635	42,10,158	1,436,564	41,01,857
Indus Left Bank Division, Jāmrao Canal District ...	242,430	6,80,156	205,332	5,31,946	202,045	5,48,889	216,902	6,03,657	171,255	4,89,012
<i>Eastern Nāra District ...</i>	370,277	7,44,690	202,273	5,09,023	268,996	6,04,085	280,512	6,19,923	207,387	5,50,841
<i>Northern Hyderabad Canals District ...</i>	312,678	7,07,595	240,652	5,19,573	316,360	8,15,624	289,886	6,80,930	266,016	7,21,982
<i>Central Hyderabad Canals District ...</i>	231,138	5,45,746	210,742	4,78,594	236,067	5,62,251	225,983	5,28,664	219,729	5,24,806
<i>Fulci Canals District ...</i>	392,752	8,56,873	312,978	6,80,979	346,735	7,91,263	350,785	7,76,371	343,432	8,30,749
Total ...	1,549,273	35,35,030	1,171,967	27,70,115	1,370,193	33,24,091	1,363,778	32,09,745	1,207,819	31,17,390
Grand Total, Sind ...	3,162,396	80,70,442	2,516,149	64,27,064	3,028,633	77,62,216	2,902,413	74,19,903	2,644,383	72,19,247

Note.—The figures in this statement are assessments.

TABLE II.

Area of Cultivation and Canal Revenue for 1909-1910 and the previous five years.

Years.	CULTIVATION.			Water-share of net consolidated Assessment.	Hakábo.	Miscellaneous.	Total, Canal Revenue.	
	Government.	Jághir.	Total.					
1	2	3	4	5	6	7	8	
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	
Indus Right Bank Division.	1904-1905 ...	1,361,311	188,049	1,549,360	34,52,719	2,39,434	45,933	37,38,086
	1905-1906 ...	1,579,186	209,865	1,789,051	43,21,438	1,81,864	44,071	45,47,373
	1906-1907 ...	1,613,123	191,500	1,804,623	45,35,412	1,73,488	52,856	47,61,756
	1907-1908 ...	1,344,282	138,823	1,483,105	36,56,939	1,39,869	75,341	38,72,649
	1908-1909 ..	1,658,500	183,725	1,842,225	44,38,125	1,27,506	62,923	46,28,554
	Average ...	1,511,280	182,393	1,693,673	40,80,927	1,72,432	56,325	43,09,684
	1909-1910 ...	1,436,564	159,940	1,596,504	41,01,857	1,67,169	67,439	43,36,465
Increase or Decrease as compared with 1908-1909 ...	-221,936	-23,785	-245,721	-3,36,268	+39,663	+4,516	-2,92,089	
Do. do. with average...	-74,716	-22,453	-97,169	+20,930	-5,263	+11,114	+26,781	
Indus Left Bank Division.	1904-1905 ...	1,252,529	122,040	1,374,569	26,02,330	1,89,269	75,206	28,66,805
	1905-1906 ...	1,432,089	126,868	1,558,957	33,40,960	1,68,739	86,372	35,96,071
	1906-1907 ...	1,549,273	132,215	1,681,488	35,35,030	54,137	83,269	36,72,436
	1907-1908 ...	1,171,867	117,407	1,289,274	27,70,115	61,571	1,09,306	29,41,492
	1908-1909 ...	1,370,193	132,131	1,502,324	33,24,091	48,261	75,880	34,48,232
	Average ...	1,355,190	126,132	1,481,322	31,14,505	1,04,396	86,106	33,05,007
	1909-1910 ...	1,207,819	122,592	1,330,411	31,17,390	54,624	68,856	32,40,870
Increase or Decrease as compared with 1908-1909 ...	-162,374	-9,539	-171,913	-2,06,701	+6,363	-7,024	-2,07,362	
Do. do. with average ..	-147,371	-3,540	-150,911	+2,885	-49,772	-17,250	-64,137	
Total for Sind ...	1904-1905 ...	2,613,840	310,089	2,923,929	60,55,049	4,28,703	1,21,139	66,04,891
	1905-1906 ...	3,011,275	336,733	3,348,008	76,62,398	3,50,603	1,30,443	81,43,444
	1906-1907 ...	3,162,396	323,715	3,486,111	80,70,442	2,27,625	1,36,125	84,34,192
	1907-1908 ...	2,516,149	256,230	2,772,379	64,27,054	2,01,440	1,85,647	68,14,141
	1908-1909 ...	3,028,693	315,856	3,344,549	77,62,216	1,75,767	1,38,803	80,76,786
	Average ...	2,866,470	308,525	3,174,995	71,95,432	2,76,328	1,42,431	76,14,691
	1909-1910 ...	2,644,383	282,532	2,926,915	72,19,247	2,21,793	1,36,295	75,77,335
Increase or Decrease as compared with 1908-1909 ...	-384,310	-33,324	-417,634	-5,42,969	+46,026	-2,508	-4,99,451	
Do. do. with average...	-222,087	-25,993	-248,080	+23,815	-55,035	-6,136	-37,356	

Note.—The figures in this statement are assessments, with the exception of Hakábo and Miscellaneous, which are actuals.

TABLE III.

Area of Cultivation and Canal Revenue for 1909-1910.

Canals and Executive Districts.	CULTIVATION.			Water-share of net Consolidated Revenue as in Table VII.	Hakabo.	Miscellaneous.	Total Canal Revenue.	
	Government.	Jághir.	Total.					
1	2	3	4	5	6	7	8	
MAJOR WORKS.								
PRODUCTIVE WORKS.								
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.								
<i>Canals in Operation.</i>								
Begari Canals District.	Desert Canal	119,415	57,898	177,308	2,32,613	1,00,252	1,522	3,34,887
	Unharwáh	79,373	70	79,443	1,81,007	296	662	1,81,965
	Begári Canal	188,519	42,232	230,751	5,26,095	40,380	2,751	5,69,226
	Total	387,307	100,195	487,502	9,39,715	1,40,928	4,935	10,85,578
Shikárpur Canals District ...	Mahiwáh	75,694	2,506	78,200	2,03,515	1,204	4,816	2,09,535
Jámráo Canal District ...	Jámráo Canal	171,255	2,850	174,105	4,89,012	1,245	18,993	5,09,250
Northern Hyderabad Canals District.	Dád Canal	99,423	8,398	107,821	2,55,674	3,596	3,038	2,62,308
	Nasrat Canal	83,681	404	84,085	2,53,483	—311	1,602	2,54,774
	Total	183,104	8,802	191,906	5,09,157	3,285	4,640	5,17,082
Eastern Nára District.	Nára Supply Channel	3,435	1,949	5,384	8,906	211	515	9,632
	Eastern Nára	36,896	...	36,896	59,036	...	9,667	68,703
	Mithrao Canal	99,126	1,164	100,290	2,86,209	330	3,415	2,89,954
	Thar Canal	45,854	2,738	48,592	1,43,403	2,821	3,741	1,49,965
	Khipra Canal	5,559	...	5,559	8,743	...	2,150	10,893
	Heran Canal	1,188	...	1,188	2,355	...	...	2,355
	Hiral Canal	15,329	...	15,329	42,189	...	722	42,911
	Total	207,387	5,851	213,238	5,50,841	3,362	20,210	5,74,413
	Total, Major Works	1,024,747	120,204	1,144,951	26,92,240	1,50,024	53,594	28,95,868
MINOR WORKS.								
IRRIGATION AND NAVIGATION.								
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.								
<i>Canals in Operation.</i>								
Ghár Canals District ...	Sukkur Canal	86,499	3,471	89,970	2,59,251	1,383	2,695	2,63,329
	Ghár Canal	220,765	9,568	230,333	7,34,224	5,503	10,537	7,50,264
	Total	307,264	13,039	320,303	9,93,475	6,886	13,232	10,13,593
Karáchi Canals District.	Sattah Canal	16,253	149	16,402	37,911	76	785	38,772
Central Hyderabad Canals District.	Alibhar Kacheri	10,800	1,217	12,017	25,276	401	229	25,906
	Marak	53,363	6,457	59,820	1,39,508	1,950	454	1,41,912
	Sarfraz	27,492	6,279	33,771	55,236	2,869	707	58,812
	Total	91,655	13,953	105,608	2,20,020	5,220	1,390	2,26,630
Fuleli Canals District.	Fuleli Canal	305,096	61,368	366,464	7,29,960	31,909	12,692	7,74,561
	Hasanali Canal	16,940	810	17,750	43,304	—294	871	43,881
	Total	322,036	62,178	384,214	7,73,264	31,615	13,563	8,18,442
Total, Minor Works, Capital and Revenue Accounts		737,208	89,319	826,527	20,24,670	43,797	23,970	20,97,437
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.								
<i>Canals in Operation.</i>								
Shikárpur Canals District.	Canals in Rohri	47,240	11,749	58,989	1,53,865	2,266	2,487	1,58,618
	Sind Canal	62,956	4,247	67,203	2,15,912	3,275	1,197	2,20,384
	Rajib Canal	8,262	192	8,454	33,804	5 3	117	34,434
	Chitti Canal	8,320	793	9,113	36,202	481	109	36,799
	Garang Canal	4,513	790	5,303	17,281	126	29	17,436
	Total	131,791	17,776	149,567	4,57,071	6,661	3,939	4,67,671

TABLE III—continued.

Canals and Executive Districts.	CULTIVATION.			Water-share of net Consolidated Revenue as in Table VII.	Hakábo.	Miscellaneous.	Total Canal Revenue.	
	Government.	Jághr.	Total.					
1	2	3	4	5	6	7	8	
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	
MINOR WORKS—continued.								
IRRIGATION AND NAVIGATION—concluded.								
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.								
<i>Canals in Operation—concluded.</i>								
Western Nára District.	Nára	220,208	11,172	231,380	7,58,266	6,635	11,434	7,76,305
	New Feeder, Western Nára.	1,439	...	1,439	5,325	...	...	5,325
	Wáhur	2,483	...	2,483	7,250	...	177	7,427
	Marvi	4,628	10	4,638	12,528	...	790	13,318
	Pritchard Canal	9,328	...	9,328	30,861	...	1,835	32,696
	Dádu Canals	9,754	41	9,795	22,196	10	419	22,624
	Phitta Canal	4,974	643	5,617	10,507	317	1,158	11,982
	Manchar	11,184	...	11,184	30,466	...	7,665	38,181
	Aral	8,695	1,419	10,114	23,512	685	96	24,298
	Other Canals, North of Kotri	11,487	1,596	13,083	28,049	732	581	29,362
Total	284,180	14,881	299,061	9,28,959	8,349	24,155	9,61,463	
Northern Hyderabad Canals District.	Mehrabwáh	12,594	154	12,748	27,952	1	195	28,148
	Naulákhí	46,607	2,098	48,705	1,26,205	952	471	1,27,628
	Dambro	13,648	1,418	15,066	34,119	490	332	34,941
	Other Canals	10,063	819	10,882	24,549	-704	870	24,715
	Total	82,912	4,489	87,401	2,12,825	739	1,868	2,15,432
Central Hyderabad Canals District.	Gháro Mahmúdo	61,340	14,678	76,018	1,50,048	5,656	1,335	1,57,039
	Kari Shumáli	28,352	6,187	34,539	64,807	3,144	474	68,425
	Nasir	32,263	1,625	33,888	75,656	139	680	76,475
	Renwáh	934	...	934	2,461	-13	933	3,381
	Other Canals	5,185	8	5,193	11,814	...	115	11,929
Total	128,074	22,498	150,572	3,04,786	8,926	3,537	3,17,249	
Faleli Canals District ... Other Canals ...	21,396	1,971	23,367	57,485	232	2,679	60,396	
Karachi Canals District.	Kalri	17,411	879	18,320	36,762	355	1,806	38,923
	Baghar	32,514	3,224	35,738	57,131	893	1,157	59,186
	Uohito	14,775	425	15,200	21,275	...	15	21,290
	Canals in Tatta, &c.	10,895	292	11,187	19,051	65	738	19,854
	Pinyári	81,804	2,875	84,679	2,15,547	1,100	5,135	2,21,782
	Canals in Mirpur Bathoro	12,754	...	12,754	34,505	...	99	34,604
	Canals in Sujáwal	10,347	46	10,393	26,301	...	364	26,665
	Canals in Jati	3,337	...	3,337	7,820	...	61	7,881
	Khanta	5,142	53	5,195	11,499	15	123	11,637
	Canals in Sháhbandar	2,076	...	2,076	4,679	...	86	4,715
Kokawari	15,747	2	15,749	34,674	...	7	34,681	
Total	206,832	7,796	214,628	4,69,244	2,433	9,541	4,81,218	
Total, Minor Works, Revenue Accounts only ...	855,185	69,411	924,596	24,30,370	27,340	43,719	25,03,429	

TABLE III—*continued*.

Canals and Executive Districts.	CULTIVATION.			Water share of net Consolidated Revenue as in Table VII.	Hakábo.	Miscellaneous.	Total Canal Revenue.	
	Government.	Jázhír.	Total.					
1	2	3	4	5	6	7	8	
MINOR WORKS— <i>concluded</i> .	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS.								
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.								
Begári Canals District—Káshmor Bund ...	6,974	...	6,974	13,532	...	2,330	15,862	
Shikárpur Canals District.	Bunds in Rohri ...	...	...	.....	...	186	186
	Sukkur-Begári Bund ...	5,208	3,035	8,238	19,044	1,150	20,194	
	Kásimpur Bund ...	1,089	...	1,089	3,470	66	3,536	
Total ...	6,292	3,035	9,327	22,514	...	1,402	23,916	
Ghár Canals District—Ghár Bunds ...	1,193	148	1,341	4,316	69	240	4,625	
Western Nára District.	Nára Bunds ...	2,466	...	2,466	3,786	...	541	9,327
	Bunds, North of Kotri ...	770	...	770	2,174	...	16	2,190
Total ...	3,236	...	3,236	10,960	...	557	11,517	
Karáchi Canals District.	Bunds in Right Bank ...	5,490	273	5,763	9,608	381	1,114	11,103
	Bunds in Left Bank ...	4,058	142	4,200	11,037	182	199	11,418
	Mathematical Instrument Depôt
Total ...	9,548	415	9,963	20,645	563	1,313	22,521	
Indus River District ...	...	...	.....	.....	...	194	194
Jámráo Canal District—Miscellaneous Receipts ...	...	...	.....	.....	...	1	1
Eastern Nára District—Miscellaneous Receipts ...	...	...	.....	.....	...	2	2
Northern Hyderabad Canals District.	Dád Canal ...	...	.....	.....	...	820	820
	Nasrat Canal ...	...	.....	.....	...	524	524
	Canal Chowkey at Dowlatpur ...	...	.....	.....	...	93	93
	Other Miscellaneous Receipts ...	...	.....	.....	...	3	3
	Naulakhi Bharti Bund ...	...	.....	.....	...	85	85
Total ...	...	...	.....	.....	...	1,525	1,525
Central Hyderabad Canals District—Miscellaneous Receipts ...	...	...	.....	.....	...	400	400
Fuleli Canals District.	Hasanali Canal ...	...	.....	.....	...	40	40
	Miscellaneous Receipts ...	...	.....	.....	...	8	8
Total ...	...	...	.....	.....	...	48	48
Total, Agricultural Works ...	27,243	3,598	30,841	71,967	632	8,012	80,611	
Indus Right Bank Division.	Begári Canals District ...	394,281	100,195	494,476	9,53,247	1,40,928	7,265	11,01,440
	Shikárpur Canals District ...	213,777	23,317	237,094	6,33,100	7,865	10,157	7,01,122
	Ghár Canals District ...	308,457	13,187	321,644	9,97,791	6,955	13,472	10,18,218
	Western Nára District ...	287,416	14,881	302,297	9,39,919	8,349	24,712	9,72,980
	Karáchi Canals District ...	232,633	8,360	240,993	5,27,800	3,072	11,639	5,42,511
	Indus River District	194	194
Total ...	1,436,564	159,940	1,596,504	41,01,857	1,67,169	67,439	43,36,465	
Indus Left Bank Division.	Jámráo Canal District ...	171,555	2,850	174,405	4,89,012	1,245	18,994	5,09,251
	Eastern Nára District ...	207,387	5,851	213,238	5,50,341	3,362	20,212	5,74,415
	Northern Hyderabad Canals District ...	266,016	13,291	279,307	7,21,962	4,024	8,033	7,34,039
	Central Hyderabad Canals District ...	219,729	36,451	256,180	5,24,806	14,146	5,327	5,44,279
	Fuleli Canals District ...	343,432	64,149	407,581	8,30,749	31,847	16,290	8,78,886
Total ...	1,207,819	122,592	1,330,411	31,17,390	54,624	68,856	32,40,870	
Grand Total ...	2,644,383	282,532	2,926,915	72,19,247	2,21,793	1,36,295	75,77,335	

Note.—The figures in this statement are assessments, with the exception of Hakábo and Miscellaneous, which are actuals.

TABLE III-A.

Area of Cultivation, Assessment, Realizations and Balances outstanding in respect of Lands in Khebt and Joghir Lands in Sind for 1909-1910.

Canals and Executive Districts.	AREA CULTIVATED DURING THE YEAR.			Un-realized balance at end of last year.	ASSESSMENT OF THE YEAR.			Remis-sions.	Net Col-lection.	Actual Realiza-tions.	Balance out-standing at end of year.		
	Khariif.	Rabi.	Total.		Khariif.	Rabi.	Total.						
1	2	3	4	5	6	7	8	9	10	11	12		
MAJOR WORKS.													
PRODUCTIVE WORKS.													
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.													
<i>Canals in Operation.</i>													
Begári Canals District.	Khebt Lands Foreign.	Desert Canal ...	33,193	22,402	55,685	47,655	52,733	38,769	91,502	...	1,31,120	1,00,004	38,915
		Begári Canal ...	22,176	2,358	24,534	9,056	22,176	3,062	25,224	...	3,128	80,079	1,205
		Total ...	55,369	24,850	80,219	56,711	74,909	41,831	1,16,726	...	1,72,444	1,80,083	39,120
		Desert Canal ...	1,801	407	2,208	117	219	32	251	...	398	249	120
		Unharwah ...	15	55	70	387	157	91	248	...	634	500	338
Begári Canal ...	13,595	4,103	17,698	6,380	4,732	2,005	6,830	...	19,270	10,311	2,969		
Total ...	15,411	4,605	19,976	6,884	5,167	2,321	7,388	...	14,272	10,845	3,427		
Shikárpur Canals District—Mahiwah.	1,001	1,415	2,406	1,224	478	866	1,041	...	2,208	1,204	1,064		
Jámráo Canal District—Jámráo Canal.	2,083	767	2,850	2,395	1,045	412	1,447	...	3,842	1,215	2,627		
Northern Hyderabad Canals District.	Dád Canal ...	6,608	1,790	8,398	3,135	2,388	590	2,987	...	5,992	3,600	2,392	
	Nasrat Canal ...	292	112	404	482	116	22	138	...	-344	-311	-33	
Total ...	6,900	1,902	8,802	2,654	2,404	612	2,955	...	5,648	3,289	2,359		
Eastern Nára District.	Nára Supply Channel ...	90	1,850	1,940	255	37	648	045	...	940	211	729	
	Eastern Nára	
	Mithrao Canal	343	1,104	187	380	129	509	...	690	330	360	
	Thar Canal ...	2,649	859	2,738	1,438	1,432	70	1,002	...	2,049	2,821	119	
	Khipra Canal	
Hern Canal ...	...	...	...	...	...	...	...	...	...	...	...
Himal Canal ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	3,480	2,301	5,781	1,881	1,841	847	2,688	...	4,576	3,363	1,214		
Total, Major Works ...	84,314	85,890	120,204	70,751	85,852	46,438	1,32,280	...	2,03,010	1,50,024	52,986		
MINOR WORKS.													
IRRIGATION AND NAVIGATION.													
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Ghar Canals District.	Sukkur Canal ...	2,631	840	3,471	1,570	1,275	326	1,611	...	3,171	1,383	1,788	
	Ghar Canal ...	8,903	605	9,508	5,142	1,106	109	1,275	...	6,417	5,503	914	
Total ...	11,534	1,505	13,039	6,712	2,441	435	2,976	...	9,588	6,886	2,702		
Karáchi Canals District—Sattah Canal	144	6	140	41	64	2	66	...	107	70	37		
Central Hyderabad Canals District.	Alibhar Kacheri ...	1,201	18	1,217	119	422	...	432	...	511	401	140	
	Márák ...	6,293	104	6,467	994	2,314	41	2,355	...	3,340	1,950	1,390	
	Saríraz ...	6,129	150	6,279	4,800	2,032	44	2,077	...	6,777	2,800	4,008	
Total ...	13,623	310	13,953	5,913	4,760	85	4,845	...	10,767	5,220	5,547		
Fulell Canals District.	Fulell Canal ...	54,674	6,604	61,364	14,153	26,436	3,049	29,485	...	43,638	31,900	11,738	
	Hasanali Canal ...	804	6	810	-403	455	3	458	...	55	294	349	
Total ...	55,478	6,700	62,174	13,750	26,891	3,052	29,943	...	43,693	32,194	12,078		
Total, Minor Works, Capital and Revenue Accounts ...	50,779	8,540	59,319	26,418	34,165	3,574	37,739	...	61,155	43,797	20,358		
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Shikárpur Canals District.	Canals in Rohri ...	8,130	3,340	11,479	2,006	1,117	454	1,761	...	3,635	2,176	1,459	
	Sind Canal ...	3,701	50	4,247	2,025	2,114	24	2,138	...	5,033	3,275	1,758	
	Rajib Canal ...	89	103	192	13	60	78	118	...	547	513	34	
	Chitti Canal ...	451	317	798	264	267	154	415	...	1,188	481	707	
	Garang Canal ...	450	340	790	327	80	48	183	...	510	126	384	
Total ...	12,821	4,055	17,595	6,210	3,631	1,052	4,683	...	11,803	6,531	4,272		
Bhawalpur Lands Foreign—Canals in Rohri.	132	133	270	...	78	52	140	...	130	140	...		
Western Nára District.	Nára ...	7,605	3,504	11,173	5,500	4,365	1,248	5,713	...	11,213	6,675	4,538	
	New Feeder Western	
	Nára	
	Wahur	
	Mávi	10	10	
	Richard Canal	
	Datu Canals ...	41	...	41	107	16	...	16	...	123	10	113	
	Phitta Canal ...	639	4	643	225	291	...	241	...	516	317	199	
Manchar ...	948	471	1,419	472	222	391	613	...	1,085	685	400		
Other Canals North of ...	1,129	467	1,596	83	428	194	620	...	1,451	732	719		
Kotri ...	...	...	...	...	...	...	...	...	...	...	...
Virah Bund ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	10,365	4,516	14,881	7,134	5,320	1,833	7,253	...	14,357	8,349	6,008		

* Excludes "Kharabo" and uncultivated portions of survey numbers assessed—Desert Canal, Acres... 2,959 3,918 6,907
Do. do. —Begári Canal, ,, ... 1,914 787 2,701

TABLE III-A—concluded.

Canals and Executive Districts.	AREA CULTIVATED DURING THE YEAR.			Un-realized balance at end of last year.	ASSESSMENT OF THE YEAR.			Remissions.	Net Total for Collection.	Actual Realizations.	Balance outstanding at end of year.	
	Kharrif.	Rabi.	Total.		Kharrif.	Rabi.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	
MINOR WORKS—concluded.												
IRRIGATION AND NAVIGATION—concluded.												
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.												
<i>Canals in Operation—concluded.</i>												
Northern Hy-derabad District.	M-hrabwah ... Naulakhi ... Dambro ... Other Canals ...	171 211 55 163	23 2,098 1,418 819	154 986 883 -705	1 678 669 76	1 73 8 52	1 749 697 138	...	2 1,785 1,579 -577	1 952 490 -704	1 753 1,089 127	
Total ...	4,037	452	4,489	1,164	1,441	134	1,575	...	2,739	739	2,000	
Central Hydr-abad District.	(Ghoro Mahmud ... Kari Shumali ... Nasir ... Renwah ... Other Canals ...	13,006 6,004 1,309 ... 8	1,672 184 256	14,678 6,187 1,625 ... 8	5,720 2,907 1,289 -13 41	4,775 2,171 520	569 62 3	5,314 2,233 523	11,064 5,140 1,812 ... 41	6,656 3,144 139 -13 ...	5,408 1,996 1,673 ... 41	
Total ...	20,336	2,112	22,498	9,944	7,466	634	8,100	...	18,044	8,926	9,118	
Fullel District.	Other Canals ...	1,829	143	1,971	458	850	68	908	...	1,394	232	1,132
Karachi District.	Kalri ... Bughar ... Uchito ... Canals in Tatta, &c. Pinyari ... Canals in Mirpur Bathoro ... Canals in Sujawal ... Canals in Jati ... Khanto ... Canals in Shāhbandar ... Kokawari ...	824 2,503 345 260 2,548 ... 46 53 2	55 721 60 26 327 ... 43 ... 63 ... 2	679 3,224 425 292 2,875 2	372 818 ... 270 769 ... 71 -128 10 2 ...	323 1,131 ... 170 1,121 ... 5 ... 20	16 104 ... 14 112	389 1,235 ... 124 1,233 5 ... 20	711 2,053 ... 324 2,002 76 -128 30 ... 2	355 898 ... 65 902 15	356 1,165 ... 259 902 ... 78 -128 15 ... 2	
Total ...	6,585	1,211	7,796	2,114	2,710	246	2,956	...	5,070	2,433	2,637	
Total, Minor Works, Revenue Accounts only ...	56,155	13,256	69,411	27,022	21,596	4,009	26,605	...	52,627	27,340	25,287	
AGRICULTURAL WORKS.												
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.												
Begāri District.	Canals—Kashmor Bund ...	...	...	...	...	...	...	...	...	...	...
Shikārpur Canals District.	Bunds in Rohri ... Sukkur Begāri Bund ... Kāsimpur Bund ...	... 1,782 ...	... 1,253 ...	... 3,035 ...	... 13 ...	... ... ...	... ... ...	... ... ...	... 13 ...	... ... ...	... 13 ...
Total ...	1,782	1,253	3,035	13	...	...	...	...	13	...	13
Ghār District.	Canals } Ghār Bunds ...	115	33	148	69	55	22	77	146	69	77	
Western District.	Nāra Bunds North of Kotri ...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	...	...	...	...	...	...
Karachi District.	Canals } Bunds, Right Bank ... Bunds, Left Bank ...	272 86	1 56	273 142	300 197	78 50	7 80	65 80	394 277	381 182	13 95	
Total ...	358	57	415	508	128	37	165	...	671	563	108	
Total, Agricultural Works ...	2,255	1,343	3,598	588	163	59	212	...	830	632	198	
Foreign Lands.												
Indus Right Bank Division.	Begāri Canals District ... Shikārpur Canals do ...	55,369 132	24,850 138	80,219 270	55,714 ...	74,909 78	41,821 52	1,16,730 130	1,72,444 130	1,30,073 130	42,150 ...	
Total ...	55,501	24,988	80,489	55,714	74,987	41,873	1,16,860	...	1,72,574	1,30,213	42,160	
Jāghir Lands.												
Indus Right Bank Division.	Begāri Canals District ... Shikārpur Canals District ... Ghār Canals District ... Western Nāra District ... Karachi Canals District ...	15,411 15,694 11,849 10,345 7,087	4,585 7,353 1,539 4,516 1,273	19,976 23,047 13,187 14,861 8,360	6,884 7,447 6,781 7,134 2,601	5,167 4,109 2,496 5,420 2,902	2,221 1,618 457 1,833 285	7,388 5,727 2,953 7,253 3,187	14,272 13,174 9,734 14,337 5,648	10,845 7,735 6,955 8,340 3,072	3,427 5,439 2,779 6,038 2,776	
Total ...	60,206	19,245	79,451	30,907	20,094	6,414	26,508	...	57,415	36,956	20,459	
Total ...	115,707	44,293	159,940	86,621	95,081	48,287	1,43,368	...	2,29,989	1,67,169	*62,609	
Indus Left Bank Division.	Jāmrao Canal District ... Eastern Nāra District ... Northern Hyderabad Canals District ... Central Hyderabad Canals District ... Fullel Canals District ...	2,083 3,460 10,937 34,009 57,307	767 2,391 2,354 2,492 6,842	2,850 5,851 13,291 36,451 64,149	2,395 1,880 3,817 15,857 14,206	1,045 1,849 3,845 12,235 27,741	402 947 715 719 3,110	1,447 2,636 4,560 12,954 30,851	3,842 4,576 8,377 28,811 45,057	1,245 3,362 4,024 14,146 31,847	2,597 1,214 4,353 14,665 13,210	
Total ...	107,796	14,796	122,592	38,155	46,715	5,798	52,508	...	90,663	54,624	36,039	
TOTAL, SINCE ...	223,503	69,029	292,532	1,24,776	1,41,798	54,080	1,95,876	..	3,20,652	2,21,793	98,648	

* Difference Rs. 211 due to certain corrections advised by the Deputy Accountant General, Public Works, and will be adjusted in the next year's report.

TABLE IV.

Revenue Expenditure on New Works, Maintenance and Repairs, and Establishment Charges in the Public Works Department and Revenue Department on Irrigation Works in Sind for 1909-1910.

Canals and Executive Districts.	REVENUE EXPENDITURE.											TOTAL EXPENDITURE.						
	Improvements.				Maintenance and Repairs.							Revenue Collection Charges.	Total, columns 6 to 12.	Establishment.				
	Works.	Regular Establishment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Establishment.	Tools and Plant.	Total.	Works.			Public Works Department, including Tools and Plant.	Civil Department Collection Charges.	Indirect Charges.	Total.	
					Works.	Works Establishment.	Total.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
MAJOR WORKS.																		
PRODUCTIVE WORKS.																		
IRRIGATION WORKS																		
NOT CHARGED AGAINST REVENUE.																		
<i>Canals in Operation.</i>																		
Beqri District { Desert Canal ...	4,045	257	...	4,302	75,434	24,431	99,865	6,349	7	1,06,221	17,167	1,23,388	1,03,910	6,613	17,167	1,205	1,24,975	
Unharwāh ...	2,500	163	...	2,663	16,230	7,153	23,373	1,524	...	24,897	11,647	36,544	25,573	1,647	11,647	236	39,443	
Bogāri Canal ...	2,106	170	...	2,276	60,838	13,551	74,389	6,025	...	80,404	36,295	1,16,699	76,545	6,195	36,335	1,172	1,20,127	
Total ...	8,651	590	...	9,241	1,52,542	45,135	1,97,677	13,898	7	2,11,592	65,049	2,76,641	2,06,334	14,495	65,440	2,073	2,41,845	
Shikarpur District { Mahiwāh ...	2,820	-242	5	2,582	29,109	11,811	41,010	-3,503	75	37,542	14,636	52,178	43,830	-3,655	14,636	-524	54,946	
Jāmrao Canal ...	3,076	2,814	54	5,944	80,748	56,488	1,37,236	1,25,540	2,893	2,64,827	16,527	2,81,354	1,40,312	1,30,459	16,527	17,970	3,05,294	
Dad Canal ...	1,030	287	7	1,314	48,610	15,459	64,069	18,025	432	64,501	18,952	83,453	65,969	18,751	18,952	2,564	1,05,356	
Nasrat Canal ...	1,032	264	8	1,324	38,489	12,013	51,752	14,231	409	60,392	16,849	77,241	52,794	14,932	16,339	2,032	86,167	
Total ...	2,062	571	15	2,648	87,419	28,372	1,15,821	32,256	841	1,48,918	31,201	1,80,119	1,17,473	33,643	34,291	4,560	1,01,443	
Nāra Supply Channel ...	1,954	-36	3	1,921	23,700	2,498	26,198	477	46	26,767	570	27,337	24,152	464	570	-72	24,156	
Eastern District { Mithrao Canal ...	108	48	2	158	31,969	9,110	44,079	19,520	17	61,220	17,482	78,702	44,147	20,191	17,482	2,741	84,601	
Thar Canal ...	...	...	...	...	7,011	4,064	11,075	4,994	294	16,353	8,808	25,251	11,075	5,278	8,808	609	25,949
Khripa Canal ...	...	...	...	...	1,774	520	2,294	1,034	41	3,374	525	3,903	2,248	1,030	625	145	4,048
Heran Canal ...	...	...	...	...	255	...	255	114	...	369	167	536	255	114	167	18	552
Hiral Canal ...	...	...	...	...	5,108	3,882	8,990	4,040	158	13,194	2,400	15,594	8,990	4,204	2,809	566	16,659
Total ...	2,062	12	5	2,079	93,206	26,466	1,19,742	41,332	1,548	1,62,662	34,761	1,97,423	1,21,944	42,897	34,761	5,788	2,05,230	
Total, Major Works	18,670	3,745	79	22,494	4,43,234	1,09,202	6,11,536	2,09,623	4,822	8,25,571	1,06,264	9,31,835	6,30,196	2,17,509	1,06,264	30,703	10,41,832	
MINOR WORKS.																		
IRRIGATION AND NAVIGATION.																		
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																		
<i>Canals in Operation.</i>																		
Chitral District { Sukkur Canal ...	4,519	1,100	55	5,680	38,557	6,706	45,263	11,067	545	56,895	19,140	76,035	49,753	12,793	19,140	1,707	83,172	
Ghār Canal ...	3,140	846	...	3,986	1,06,210	16,102	1,22,312	32,952	-20	1,55,244	50,032	2,05,276	1,25,472	30,778	50,032	5,095	2,14,377	
Total ...	7,659	1,946	55	9,660	1,44,767	22,808	1,67,574	44,039	625	2,10,488	69,172	2,79,660	1,75,234	46,671	69,212	6,892	2,97,126	
Karachi District { Sattah Canal ...	76	10	-1	85	19,732	1,912	21,644	2,704	-360	24,078	2,316	26,394	21,720	2,443	2,316	303	26,722	
Alibhār Kacheri ...	...	...	...	...	2,698	900	3,648	844	-53	4,470	2,261	6,731	3,689	791	2,261	119	6,459
Mārak ...	...	...	...	...	16,779	3,032	19,811	4,533	-286	24,058	11,030	35,088	19,811	4,247	11,030	635	35,733
Sarfrāz ...	...	...	...	...	11,843	1,906	13,749	3,147	-199	16,697	4,366	21,063	13,749	2,948	4,366	441	21,504
Total ...	...	...	...	...	31,320	5,928	37,248	8,524	-538	45,234	17,657	62,891	37,248	7,966	17,657	1,195	64,086
Fuleli Canal ...	5,091	1,371	9	6,471	1,35,669	22,356	1,58,025	42,626	273	2,01,224	57,135	2,58,359	1,63,416	44,279	57,135	6,160	2,70,590	
Hasanali Canal ...	863	233	1	1,097	18,840	3,139	16,979	4,575	30	21,544	2,632	24,206	17,642	4,839	2,632	673	25,976	
Total ...	5,954	1,604	10	7,568	1,40,809	25,495	1,76,304	47,201	303	2,22,808	59,767	2,82,575	1,81,258	49,118	59,767	6,833	2,96,596	
Total, Minor Works, Capital and Revenue Accounts	13,689	3,566	64	17,319	3,45,628	56,143	4,01,771	1,02,553	-70	5,04,259	1,48,942	6,53,201	4,15,460	1,06,118	1,48,942	15,223	6,85,713	
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																		
<i>Canals in Operation.</i>																		
Shikarpur District { (Canals in Rohri ...	172	-14	...	158	9,192	6,171	15,363	-1,259	27	14,131	9,424	23,555	15,535	-1,245	9,424	...	23,713	
Sind Canal ...	1,159	-95	2	1,066	70,127	6,413	76,540	-6,274	134	70,400	13,269	83,669	77,670	-6,233	13,269	...	84,735	
Rajib Canal ...	439	-36	1	404	1,851	520	2,371	-194	4	2,141	2,129	4,310	2,310	-225	2,129	...	4,714	
Chitli Canal ...	1,082	-87	2	987	560	925	1,445	-122	3	1,368	2,440	3,806	2,537	-204	2,440	...	4,773	
Garang Canal ...	2,136	-175	4	1,964	1,534	520	2,104	-172	4	1,936	1,139	3,075	4,239	-339	1,139	...	5,039	
Gidu Dhand ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	4,967	-407	9	4,569	83,314	14,549	97,863	-8,021	172	90,014	28,401	1,18,415	1,02,320	-8,247	28,401	...	1,22,974	

(a) Suspense Account.

TABLE IV—continued.

Canals and Executive Districts.	REVENUE EXPENDITURE.											Total, columns 6 to 12.	TOTAL EXPENDITURE.						
	Improvements.				Maintenance and Repairs.								Revenue Collection Charges.	Works.	Establishment.		Indirect Charges.	Total.	
	Works.	Regular Establishment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Establishment.	Tools and Plant.	Total.	Public Works Department, including Tools and Plant.				Civil Department Collection Charges.				
					Works.	Works Establishment.	Total.												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
MINOR WORKS—contd.																			
IRRIGATION AND NAVIGATION—concluded.																			
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.																			
Canals in Operation—concl.																			
Western Nara District.	Nara	1,065	418	10	1,493	48,801	25,490	74,291	29,193	710	1,04,194	45,218	1,49,412	75,356	30,331	45,218	...	1,50,905	
	Western Nara New Feeder	319	319
	Murvi	...	...	...	...	1,857	229	2,086	820	20	2,926	768	3,684	2,086	840	758	...	3,684
	Waur	187	54	1	192	233	130	363	148	3	609	435	944	500	201	435	...	1,130	
	Pritchard Canal	3,533	1,408	35	5,026	4,419	3,138	7,557	2,970	72	10,599	1,869	12,468	11,140	4,485	1,869	...	17,494	
	Dadu Canals	...	...	...	...	1,868	1,048	2,914	1,145	29	4,083	1,335	5,423	2,914	1,174	1,335	...	5,423
	Phitta Canal	...	...	...	...	604	588	1,190	407	11	1,668	711	2,379	1,818	730	711	...	3,267
	Mauchar	...	...	...	...	...	...	...	...	...	...	2,058	2,058	...	...	2,058	...	2,058
	Aral	...	...	...	...	...	...	...	...	...	...	1,463	1,463	...	...	1,463	...	1,463
	Canals north of Kotri.	463	182	4	649	4,451	1,450	5,901	2,319	57	8,277	1,795	10,072	6,364	2,502	1,795	...	10,721	
	Vira Bund	...	...	...	...	1,069	...	1,069	666	16	2,341	...	2,341	1,669	672	...	...	2,341
Total	8,874	2,308	56	8,238	63,900	32,071	95,971	37,718	918	1,34,002	55,961	1,90,563	1,01,845	40,995	55,991	...	1,98,801		
Northern Hyderabad Canals Dist.	Mehrabwah	1,000	263	5	1,268	8,715	964	9,679	2,550	48	12,277	1,677	13,954	10,679	2,866	1,677	...	15,222	
	Naulakhi	5,503	1,450	27	6,980	18,549	3,855	22,404	5,902	111	28,417	7,940	36,057	27,907	7,490	7,640	...	43,037	
	Dambro	999	263	5	1,267	11,246	2,608	13,854	3,650	69	17,573	2,075	19,648	14,853	3,987	2,075	...	20,915	
	Other Canals	1,267	334	6	1,607	3,635	1,153	4,778	1,259	24	6,061	1,518	7,579	6,045	1,623	1,518	...	9,186	
Total	8,769	3,310	43	11,122	42,135	8,580	50,715	13,331	252	64,328	12,910	77,238	59,484	15,966	12,910	...	88,360		
Central Hyderabad Canals Dist.	Ghāro Mahmud	...	...	...	...	21,678	3,637	25,315	5,793	-368	30,740	9,266	40,005	25,315	5,426	9,265	...	40,005
	Kari Shumali	...	...	...	...	6,728	2,795	9,521	2,179	-138	11,692	4,443	16,005	9,521	2,041	4,443	...	22,098
	Nasir	1,742	399	-25	2,116	8,439	1,815	10,254	2,346	-149	12,451	4,779	17,231	11,996	2,571	4,779	...	19,349	
	Renwah	1,659	390	-24	2,015	2,341	1,127	3,468	793	-50	4,211	189	4,360	5,127	1,099	139	...	6,365	
	Other Canals	...	...	...	...	2,007	301	2,998	636	-44	3,640	709	4,349	2,993	642	709	...	4,349
Total	3,401	779	-49	4,131	41,881	9,675	51,556	11,797	-749	62,804	19,335	81,939	51,957	11,778	19,335	...	86,070		
Fulhi Canals Dist.	Other Canals	...	...	...	...	12,895	2,324	15,219	4,101	26	19,346	3,261	22,607	15,219	4,127	3,261	...	22,607
	Total	...	...	...	...	12,895	2,324	15,219	4,101	26	19,346	3,261	22,607	15,219	4,127	3,261	...	22,607
Karachi Canals District.	Other Canals, Tatta & Co.	4,061	533	-66	4,528	14,603	2,042	16,845	2,210	-275	18,780	1,054	19,834	20,906	2,402	1,054	...	24,362	
	Kalri	578	76	-9	615	14,543	2,825	17,368	2,278	-283	19,363	2,088	21,451	17,946	2,062	2,088	...	22,098	
	Bachar	8,223	502	-62	8,663	20,414	7,029	27,443	3,600	-447	30,596	3,310	33,906	31,266	3,593	3,310	...	38,169	
	Uchito	...	...	...	...	730	40	770	101	-13	858	1,282	2,140	770	88	1,282	...	2,140
	Canals in Mirpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bathoro	825	108	-13	920	6,434	864	7,298	949	-118	8,089	1,957	10,026	8,063	920	1,957	...	10,946	
	Pinyari	5,469	717	-89	6,097	58,851	9,685	68,436	8,975	-1,116	76,295	11,992	88,237	73,905	8,437	11,992	...	94,384	
	Canals in Sujawal	9,534	1,251	-156	10,633	11,118	536	11,654	1,529	-190	12,993	1,846	14,839	21,192	2,434	1,846	...	25,472	
	Canals in Jati	253	33	-3	283	910	44	954	125	-16	1,063	474	1,537	1,207	139	474	...	1,620	
	Khnto	3,679	483	-60	4,102	8,461	894	9,355	1,226	-152	10,419	612	11,031	13,024	1,407	612	...	15,133	
	Canals in Shābandar.	...	...	...	...	439	164	603	79	-10	672	242	914	603	69	242	...	914
Kokāwari	...	...	...	...	3,328	478	3,806	499	-62	4,243	2,160	6,393	3,806	437	2,160	...	6,393	
Laikpur	...	...	...	...	3,453	1,088	4,541	595	-74	5,060	...	5,060	4,539	521	...	...	5,060	
Total	28,226	3,703	-458	31,471	1,43,474	25,527	1,69,001	22,196	-2,756	1,98,411	27,007	2,15,418	1,97,227	22,655	27,007	...	2,46,889		
Total, Minor Works, Revenue Accounts only.																			
61,227 8,693 -399 69,521 3,87,509 92,726 4,80,325 81,117 -2,137 5,59,305 1,46,875 7,06,180 5,31,552 87,274 1,46,875 ... 7,66,701																			
AGRICULTURAL WORKS.																			
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																			
Sindh District.	Kashmor Bund	6,523	1,513	63	8,099	1,89,128	33,955	2,23,083	51,749	2,152	2,76,984	843	2,77,827	2,29,606	55,477	843	...	2,85,926	
	Cadastral Survey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Survey of Khelat Canal	158	815	2	975	...	...	...	...	...	...	...	...	158	817	...	...	975
Total	6,681	2,328	65	9,074	1,89,128	33,955	2,23,083	51,749	2,152	2,76,984	843	2,77,827	2,29,764	56,294	843	...	2,86,901		
District.	Sukkar-Begāri Bund	10,268	2,311	90	12,667	3,16,495	13,019	3,29,514	73,877	2,866	4,05,257	1,262	4,06,519	3,39,770	79,144	1,262	...	4,19,176	
	Kāshimpur Bund	290	48	2	340	1,195	2,124	3,319	747	29	4,195	213	4,308	3,519	826	213	...	4,558	
	Bunds in Rohri District	33,168	7,463	292	40,908	5,530	1,224	9,804	2,218	86	12,108	...	12,108	42,962	10,054	...	...	53,016
	Tulsi Dhand	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Contour Survey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Garhi Habib Forest	1,000	225	9	1,234	...	...	...	...	...	...	...	...	1,000	234	...	...	1,234	
Total	44,614	10,042	393	55,049	3,26,270	15,367	3,41,637	76,842	2,981	4,21,460	1,475	4,22,935	3,88,251	90,258	1,475	...	4,77,984		
District.	Ghār Bunds	964	222	13	1,199	4,680	3,899	8,579	1,973	111	10,663	268	10,931	9,543	2,319	268	...	12,130	
	Nāra Bunds	8,957	2,021	23	11,001	17,512	7,189	24,701	5,547	64	30,312	512	30,824	33,658	7,655	512	...	41,825	
	Bunds north of Kotri.	1,876	426	5	2,307	1,815	744	2,559	575	7	3,141	130	3,271	4,435	1,013	130	...	5,578	
Total	10,833	2,447	28	13,308	19,327	7,933	27,260	6,122	71	33,453	642	34,095	38,093	8,668	642	...	47,403		

TABLE IV—concluded.

Canals and Executive Districts.	REVENUE EXPENDITURE.										TOTAL EXPENDITURE.						
	Improvements.				Maintenance and Repairs.						Revenue Collection Charges.	Total, Columns 6 to 12.	Establishment.				Total.
	Works.	Regular Establishment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Establishment.	Tools and Plant.	Total.			Works.	Public Works Department, including Tools and Plant.	Civil Department, including Collection Charges.	Indirect Charges.	
					Works.	Works Establishment.	Total.										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
AGRICULTURAL WORKS—concluded.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT—concluded.																	
Canals District.																	
Bunds, Right Bank ...	12,569	2,592	187	15,348	38,624	6,249	44,873	10,325	607	55,806	534	56,340	57,442	14,071	534	...	72,417
Bunds, Left Bank ...	6,402	1,473	95	7,970	1,50,310	9,752	1,60,062	36,831	2,378	1,99,271	677	1,99,948	1,66,464	40,777	677	...	2,07,918
Hunderani Panah Forest ...	1,999	460	30	2,489	...	...	...	...	...	...	...	...	1,998	49	...	...	2,4-8
Mathematical Instrument Depot ...	...	...	32,958	32,958	...	...	...	...	...	...	...	...	32,954	...	...	...	32,958
Total ...	20,969	4,525	33,270	59,064	1,88,934	16,001	2,04,935	47,156	3,045	2,53,130	1,211	2,54,341	2,25,964	88,296	1,211	...	3,16,411
Survey and Construction District.																	
Survey, &c., for the Right Bank Canal Project ...	6,075	48,897	1,837	56,809	...	...	...	...	...	...	...	...	6,075	50,734	...	...	56,809
Indus River District ...	26,131	47,328	2,631	76,140	23,840	...	23,840	43,178	2,445	69,463	...	69,463	49,971	95,632	...	...	1,45,603
Jamrao Canal District ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastern Nara District ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Northern Hyderabad Canals District.																	
Detailed Survey of the Rohri-Hyderabad Canal Project ...	3,021	47,632	451	51,304	...	...	...	...	...	...	...	...	3,021	48,2-3	...	...	51,304
Constructing a bund between Nasrat and Naulakhi Canals ...	6,093	1,609	10	8,627	...	...	...	...	...	...	...	...	6,099	1,624	...	...	8,627
Naulakhi-Bhorti Bund, Canal Chowkey at Dowlatpur ...	451	104	1	556	1,893	1,057	2,950	0-5	8	3,563	1	3,564	3,311	1,624	1	...	4,120
Experimenting on the Cultivation of Barseem in Sehra Garden ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Indus Survey Marks ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	10,471	49,545	471	60,487	2,242	1,057	3,209	750	9	4,007	1	4,008	13,770	60,783	1	...	64,585
Central Hyderabad Canals District.																	
Renwah loop bund ...	...	...	...	...	42	261	686	187	10	871	...	800	680	123	...	...	809
Fuleli Canals District.																	
Extending Jamshoro Bund to Sapki main ...	9,188	2,078	136	11,412	...	...	...	...	...	...	...	...	9,188	2,214	...	...	11,412
Constructing Sang Uhadko Loop Bund Sections 1 and 2 ...	...	...	...	...	60,994	...	60,994	15,811	1,031	66,836	...	66,836	60,004	10,832	...	...	86,836
Hajipur, Sang, Dadhko, Budka Takar and Katjar Loop Bunds ...	...	...	...	...	24,529	...	24,529	5,541	381	30,451	...	30,451	24,529	5,902	...	...	30,451
Bunds in Hyderabad ...	...	...	...	...	9,326	...	9,326	2,106	137	11,569	...	11,569	9,326	2,243	...	...	11,569
River Bunds ...	...	...	...	...	13,964	3,942	17,906	4,045	264	22,215	...	22,215	17,906	4,309	...	...	22,215
Total ...	9,188	2,078	136	11,412	1,17,813	3,942	1,21,755	27,603	1,793	1,51,051	1	1,51,051	1,30,953	31,101	...	...	1,62,453
Total, Agricultural Works ...	1,35,930	1,67,712	38,894	3,42,542	6,72,956	22,418	9,55,074	2,55,479	15,031	12,23,504	4,440	12,30,034	10,91,010	4,77,126	4,440	...	15,72,576
Indus Bank Division.																	
Begari Canals District, Shikarpur Canals District ...	15,332	2,918	65	18,315	3,41,670	79,099	4,20,760	65,647	2,159	4,98,566	65,892	5,54,458	4,36,093	70,789	65,892	2,673	5,76,446
Ghar Canals District ...	52,400	9,393	407	62,200	4,39,783	41,727	4,80,510	65,313	3,278	5,49,056	44,512	5,93,568	5,32,910	78,746	44,512	-524	6,36,244
Western Nara District, Karachi Canals District ...	8,623	2,174	68	10,865	1,40,447	26,737	1,76,164	46,012	639	2,22,022	69,490	2,91,512	1,84,777	44,900	69,490	6,802	3,09,949
Survey and Construction District ...	16,707	4,765	84	21,546	83,227	40,004	1,23,231	43,835	909	1,68,055	56,603	2,24,658	1,39,939	49,653	56,603	...	2,46,204
Total ...	49,271	8,538	32,811	90,620	3,52,140	43,444	3,95,584	72,116	-71	4,67,625	30,534	4,98,159	4,44,851	1,13,204	30,534	393	5,93,172
Indus River District ...	26,131	47,328	2,631	76,140	23,840	...	23,840	43,178	2,445	69,463	...	69,463	49,971	95,632	...	...	1,45,603
Total ...	1,74,639	1,24,003	37,953	3,36,495	13,69,107	2,30,968	16,20,075	3,36,106	9,386	19,65,567	2,67,021	22,32,588	17,94,614	5,7,446	2,67,021	9,344	25,78,427
Indus Division.																	
Jamrao Canal District, Eastern Nara District, Northern Hyderabad Canals District ...	3,076	2,814	54	5,944	80,748	56,488	1,37,236	1,25,540	2,051	2,64,827	16,527	2,81,354	1,40,312	1,30,459	10,527	17,970	3,05,269
Central Hyderabad Canals District ...	2,062	12	5	2,079	93,206	26,386	1,19,782	41,332	1,548	1,62,662	34,761	1,97,423	1,21,844	42,897	34,761	5,788	2,15,290
Fuleli Canals District ...	21,292	52,426	529	74,247	1,31,826	38,009	1,69,835	46,376	3,295	2,19,506	48,202	2,67,708	1,91,177	1,02,626	48,202	4,596	3,46,551
Total ...	3,401	779	-49	4,131	73,623	15,867	89,490	20,478	-1,321	1,08,647	36,992	1,45,639	92,891	19,887	36,992	1,195	1,50,965
Total, Sind ...	2,19,522	1,83,716	39,638	4,41,876	20,49,117	3,99,579	24,48,696	6,48,637	17,396	31,14,729	4,96,531	35,81,260	26,68,218	3,89,387	4,66,821	45,726	40,88,562

(a) Suspense Account.

TABLE V.

Cultivation, Canal Revenue and Expenditure for 1909-1910, as contrasted with the average of three previous years.

Canals and Executive Districts.	AVERAGE OF THREE PREVIOUS YEARS.					1909-1910.					LENGTH IN MILES.				
	Cultiva- tion.	Canal Revenue.	Mainte- nance and Revenue Collection.	Per- centage of Expendi- ture on Re- venue.	Cost of Main- tenance per acre.	Cultiva- tion.	Canal Revenue.	Mainte- nance and Revenue Collection.	Per- centage of Expendi- ture on Re- venue.	Cost of Main- tenance per acre.	Canals.			Bunds	Total.
											Main Canals.	Bran- ches.	Total.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MAJOR WORKS.															
PRODUCTIVE WORKS.															
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.															
<i>Canals in Operation.</i>															
Deccan District.	157,869	3,12,268	1,44,436	46.2	9	177,308	3,34,947	1,23,368	36.9	7	75	254	329	...	329
	74,938	1,73,090	37,784	21.8	5	79,443	1,81,965	36,544	20.1	5	30	82	118	...	118
	268,132	6,09,052	1,00,268	16.5	4	230,751	5,69,226	1,16,699	20.5	5	76	94	170	...	170
Total ...	500,927	10,04,408	2,82,488	25.8	1.6	487,502	10,85,679	2,76,631	25.5	6	187	430	617	...	617
Shikarpur Canals District—Mahiwah.	83,262	2,19,751	64,399	29.3	8	78,200	2,09,535	62,218	24.9	7	29	255	284	...	284
Jamrao Canal District—Jamrao Canal	219,918	6,20,167	3,15,851	50.9	1.6	174,105	5,09,250	2,81,354	55.2	1.6	117	472	589	...	589
Northern Hyderabad District.	102,537	2,27,867	1,10,949	48.7	1.1	107,821	2,62,308	1,01,478	38.7	0.9	95	275	370	...	370
	116,131	2,55,417	70,832	27.7	0.6	84,085	2,54,774	82,731	32.5	1.0	95*	202	297	...	297
Total ...	219,668	4,83,284	1,81,781	37.6	0.8	191,906	5,17,082	1,84,209	35.6	1.0	190	477	667	...	667
Nara Supply Channel	11,854	26,891	25,611	95.2	2.2	5,384	9,632	26,337	273.4	4.9	12	...	12	...	12
Eastern Nara	84,449	1,30,765	39,695	30.4	0.5	36,896	68,708	43,601	43.5	1.2	...	...	179	...	179
Mithrao Canal	117,232	3,07,166	65,885	21.5	0.6	100,290	2,89,954	81,702	28.2	0.8	83	50	143	...	236
Thar Canal	50,294	1,42,423	23,147	16.3	0.5	48,592	1,39,905	25,251	18.8	0.5	24	48	72	...	105
Khajra Canal	5,227	8,922	2,641	29.6	0.5	6,559	10,593	3,903	35.8	0.7	15	...	15	...	15
Herao Canal	1,733	8,841	2,741	70.8	0.2	1,188	2,355	536	22.8	0.5	8	...	8	...	8
Hiral Canal	17,108	39,426	15,522	39.4	0.9	15,329	42,911	16,093	37.5	1.0	19	22	41	...	41
Outlay incurred by Indus District ...	...	...	211	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	287,895	6,59,434	1,72,984	26.2	0.6	213,238	5,74,413	1,97,423	34.4	0.9	100	120	286	305	591
Total, Major Works ...	1,310,665	30,77,044	10,17,503	33.1	0.8	1,144,951	28,95,859	9,91,835	34.3	0.9	689	1,754	2,443	805	2,749
MINOR WORKS.															
IRRIGATION AND NAVIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.															
<i>Canals in Operation.</i>															
Ghar District.	89,561	2,62,297	71,355	27.2	0.8	89,970	2,63,329	76,075	28.9	8	74	56	130	...	130
	262,446	7,33,766	1,55,561	19.7	6	230,333	7,60,264	2,05,276	27.4	9	67	230	297	...	297
Total ...	352,007	10,61,062	2,26,916	21.6	6	320,303	10,13,593	2,81,351	27.8	9	141	286	427	...	427
Karachi Canals District—Satta Canal	16,438	29,442	21,952	74.6	1.4	16,402	38,772	26,394	68.1	1.6	31	6	37	...	37
Central Hyderabad District.	11,700	24,039	15,239	21.8	0.4	12,017	25,906	6,740	26.0	0.6	25	33	58	...	58
	63,410	1,52,308	34,801	22.8	0.5	59,320	1,41,912	35,088	24.7	0.6	24	149	173	...	173
	33,015	59,612	17,965	30.1	0.5	33,771	68,812	21,063	35.8	0.6	80	31	111	...	111
Total ...	108,125	2,36,009	58,075	24.6	0.5	105,608	2,26,630	62,891	27.8	0.6	129	213	342	...	342
Fuleli District.	377,005	7,54,014	1,87,170	24.8	0.5	366,464	7,74,561	2,59,359	33.4	0.7	93	924	1,022	...	1,022
	16,736	30,861	17,048	55.2	1.0	17,750	43,881	24,206	55.2	1.4	35	65	100	...	110
Total ...	393,741	7,84,875	2,04,218	26.0	0.5	384,214	8,18,442	2,82,565	34.5	0.7	138	989	1,122	...	1,122
Total, Minor Works, Capital and Revenue Accounts	869,311	21,01,388	5,11,091	24.3	0.6	826,527	20,97,437	6,53,201	31.1	0.8	424	1,484	1,928	...	1,928
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.															
<i>Canals in Operation.</i>															
Shikarpur Canals District.	64,085	1,64,175	40,979	24.9	0.6	58,959	1,58,613	23,555	14.9	4	109	11	120	...	120
	67,439	2,70,799	87,634	31.3	1.0	67,263	2,20,384	68,669	28.9	1.2	51	79	130	...	130
	9,494	36,561	7,928	21.4	0.8	8,454	34,344	4,310	13.5	0.5	10	...	10	...	10
	11,769	42,567	18,048	18.9	0.7	9,613	36,799	3,806	10.3	4	10	...	10	...	10
	6,721	22,848	5,966	26.1	0.9	5,383	17,436	3,075	17.6	0.6	11	...	11	...	11
Total ...	179,508	5,45,940	1,50,451	27.6	0.8	149,567	4,67,671	1,18,415	25.3	0.8	191	90	281	...	281
Nara	24,263	8,06,129	1,28,205	15.9	0.5	231,390	7,78,305	1,49,412	19.2	0.6	156	275	431	...	431
Manchar	16,574	45,056	2,477	5.5	1	11,184	38,131	2,058	5.1	2	...	...	...	...	...
Aral	9,715	22,942	1,370	5.9	1	10,114	24,203	1,463	6.0	1	20	13	33	...	33
Fritchard	9,908	30,906	10,665	34.5	1.1	9,323	32,696	12,496	33.1	1.3	24	23	47	...	47
Wahur	2,413	7,481	1,135	15.2	0.5	2,483	7,427	1,444	12.7	0.4	4	4	4	...	4
Marvi	4,919	13,322	3,028	22.7	0.6	4,938	13,318	3,694	27.7	0.8	15	...	15	...	15
Western Hyderabad District.	1,485	5,001	299	5.9	2	1,439	5,325	319	6.0	2	8	...	8	...	8
	9,472	22,329	7,396	33.1	0.7	9,705	22,624	5,423	24.0	0.6	19	14	33	...	33
	6,185	14,417	2,437	16.9	0.4	5,617	11,982	2,379	19.9	0.4	40	...	40	...	40
Kotri	12,421	24,659	10,938	44.8	0.9	13,083	29,362	10,772	34.3	0.8	62	...	62	...	62
Virah Bund	...	21,267	...	...	...	...	2,341	...	...	...	...	...	...	...	...
Total ...	327,763	9,92,241	1,89,259	19.0	0.6	299,061	9,61,463	1,90,563	19.8	0.6	343	325	673	...	673
Northern Hyderabad District.	13,101	30,535	15,331	60.2	1.2	12,748	24,148	13,954	49.6	1.1	29	14	43	...	43
	45,991	1,55,577	30,063	19.3	0.7	44,705	1,27,628	36,057	28.3	0.7	27	91	118	...	118
	14,067	34,291	19,599	67.2	1.2	16,066	34,941	19,046	66.2	1.3	31	35	66	...	66
	10,533	24,925	7,503	3.0	0.7	10,882	24,715	7,579	30.7	0.7	30	9	39	...	39
Total ...	83,695	2,05,321	72,493	35.3	0.9	87,401	2,15,432	77,238	35.9	0.9	117	149	266	...	266
Central Hyderabad District.	77,484	1,56,779	32,351	21.6	0.4	78,018	1,57,039	40,905	25.5	0.5	37	167	204	...	204
	35,439	68,557	16,931	24.8	0.4	34,549	64,425	16,015	23.4	0.5	36	154	190	...	190
	35,706	80,125	23,031	24.7	0.6	33,884	76,475	17,230	22.5	0.5	26	101	127	...	127
	1,597	4,324	5,416	125.1	3.4	1,884	4,350	128.7	4.7	24	12	36	...	36	
	5,215	12,169	3,081	25.3	0.6	5,193	11,929	4,349	36.5	0.8	25	7	32	...	32
Total ...	155,411	3,21,647	80,810	25.1	0.5	150,572	3,17,239	81,939	25.8	0.5	143	441	569	...	569
Fuleli District.	23,571	41,008	27,864	67.9	1.2	23,367	60,386	22,607	37.4	1.0	62	76	138	...	138

* Nasrat Canal—Increase of 3 miles as compared with last year is due to the extension of the Main Canal.
 † Do. Decrease of 1 mile as compared with last year is due to handing over a distributary to Zamindars for maintenance.

TABLE V—concluded.

Canals and Executive Districts.	AVERAGE OF THREE PREVIOUS YEARS.			Per-centage of Expendi-ture on Re-venue.	Cost of Main-tenance per acre.	1908-1910.			Per-centage of Expendi-ture on Re-venue.	Cost of Main-tenance per acre.	LENGTH IN MILES.					
	Cultiva-tion.	Canal Revenue.	Mainte-nance and Revenue Collec-tion.			Cultiva-tion.	Canal Revenue.	Mainte-nance and Revenue Collec-tion.			Canals.			Bunds	Total.	
											Main Canals.	Branches.	Total.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
MINOR WORKS—concluded.	Acres.	Rs.	Rs.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Miles.	Miles.	Miles.	Miles.	Miles.	
IRRIGATION AND NAVIGATION—concluded.																
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.																
<i>Canals in Operation—concluded.</i>																
Canals in Tatta &c. ...	14,281	16,984	18,857	111.0	1.8	11,187	13,854	19,834	99.9	1.8	71	5	76	...	76	
Kalri ...	1,057	30,730	27,427	8.3	1.6	18,300	38,923	21,451	65.1	1.2	26	66	92	...	92	
Baghar ...	3,481	46,836	35,978	76.8	1.1	33,738	69,186	33,906	57.3	.9	88	67	155	...	155	
Uchito ...	13,634	18,234	2,068	11.3	.2	15,200	21,290	2,140	10.1	.1	34	3	37	...	37	
Pinyari ...	66,919	1,80,923	1,13,568	62.8	1.3	84,679	2,21,782	88,287	39.8	1.0	71	251	322	...	322	
Karachi Canals District.																
Canals in Mirpur Bathoro ...	12,164	30,271	15,507	51.2	1.3	12,754	34,604	10,026	29.0	.8	35	33	68	...	68	
Canals in Sujawal ...	9,951	16,384	17,313	102.6	1.7	10,393	26,065	14,339	55.6	1.4	53	17	69	...	69	
Canals in Jati ...	2,563	6,482	3,191	4.2	1.2	3,337	7,881	1,537	19.5	.5	10	...	10	...	10	
Khanto ...	4,863	9,316	9,229	106.6	2.0	5,195	11,937	11,031	94.8	2.1	21	11	32	...	32	
Canals in Shati-bandar ...	1,765	3,003	3,093	103.0	1.8	4,715	914	19.4	4	...	19	...	19	...	19	
Kokawari ...	13,905	30,610	7,124	23.3	.6	15,749	34,651	6,393	18.4	.4	17	10	27	...	27	
Laikpur ...	...	...	2,905	...	...	...	...	5,060	...	...	10	14	24	...	24
Total ...	211,569	3,90,283	2,56,919	65.8	1.2	214,618	4,81,218	2,15,418	44.8	1.0	454	477	931	...	931	
Total, Minor Works, Revenue Accounts only ...	981,517	24,96,439	7,77,786	31.2	0.8	924,596	25,03,420	7,06,180	28.2	0.8	1,820	1,568	2,878	...	2,878	
AGRICULTURAL WORKS.																
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																
Begari Canals Dis-trict.	8,525	18,967	1,59,325	84.0	1.7	6,974	15,902	2,77,827	1,751.5	30.8	...	...	...	66	66
Shikarpur Canals Dis-trict.	3,036	119	3,544	2,978.2	...	1,089	3,536	12,108	6,500.7	4.0	...	...	...	62	62
Canals Dis-trict.	11,670	30,694	2,18,660	712.4	18.7	8,238	20,194	4,06,519	2,013.1	49.3	...	...	...	49	49
Total ...	14,708	40,657	2,31,080	569.8	15.7	9,327	23,910	4,22,935	1,768.4	45.3	...	...	...	120	120
Ghar Canals Dis-trict.	1,193	3,960	14,128	366.7	11.9	1,341	4,612	10,931	236.3	8.2	...	...	...	46	46
Western Nara District.	4,867	15,946	32,928	206.6	6.8	2,466	9,327	50,824	330.4	12.5	...	...	...	79	79
Total ...	5,507	17,437	37,465	214.9	6.8	3,236	11,517	31,095	296.0	10.5	...	...	...	85	85
Karachi Canals District.	5,810	7,796	54,408	708.0	9.4	5,763	11,103	50,399	604.0	9.4	...	...	...	60	60
Bunds, Right Bank	3,781	6,339	71,247	1,123.9	18.8	4,200	11,418	1,94,943	1,751.2	47.6	...	...	...	98	98
Bunds, Left Bank	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mathematical In-strument Depot	...	39	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	9,591	14,174	1,26,053	889.3	18.1	9,963	22,021	2,50,347	1,138.3	25.7	...	...	...	158	158
AGRICULTURAL RECEIPTS.																
Karachi Canals District	...	2,456	58,397	2,377.7	...	...	194	69,463	35,805.7	...	...	...	...	...	...
Indus River District	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jamrao Canal District	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastern Nara District	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...
Northern Hyderabad Canals District	...	1,421	11,062	778.5	...	...	1,525	6,161	41.6	...	...	...	...	10	10
Central Hyderabad Canals District	...	572	3,111	543.9	...	...	300	1,499	202.3	...	...	...	...	7	7
Fuleli Canals District	...	315	59,792	18,931.3	...	...	48	151,360	315,345.8	...	...	...	...	140	140
Total, Agricultural Works ...	39,522	99,880	7,00,420	701.4	17.7	30,841	80,611	12,31,034	1,525.9	39.9	...	...	...	532	532
Begari Canals Dis-trict	509,452	11,13,375	4,41,813	39.7	.9	494,476	11,01,440	5,54,458	50.3	1.1	187	430	617	66	689	
Shikarpur Canals District	277,476	8,06,248	4,45,939	55.2	1.6	237,094	7,01,122	5,93,568	84.7	2.5	220	345	565	120	685	
Ghar Canals Dis-trict	353,200	10,55,022	2,41,042	22.9	.7	321,644	10,18,218	2,92,182	28.7	.9	141	246	427	46	473	
Western Nara Dis-trict	333,260	10,09,677	2,26,724	22.5	.7	302,297	9,79,980	2,24,678	23.1	.7	348	325	673	85	759	
Karachi Canals District	236,598	4,33,899	4,04,924	93.3	1.7	240,893	5,42,511	4,98,159	91.5	2.1	485	483	968	168	1,126	
Indus River Dis-trict	...	2,456	58,397	2,377.7	...	...	194	69,453	35,805.7	...	...	...	...	...	...
Total ...	1,709,986	44,20,677	18,18,839	41.1	1.1	1,596,504	43,36,465	22,32,588	51.5	1.4	1,381	1,869	3,250	475	3,725	
Jamrao Canal Dis-trict	219,913	6,20,167	3,15,851	50.9	1.4	174,105	5,09,251	2,81,354	55.2	1.6	117	472	589	...	589	
Eastern Nara Dis-trict	287,895	6,59,435	1,72,984	26.2	0.6	213,238	5,74,416	1,97,423	31.3	0.9	166	120	286	305	591	
Northern Hydera-bad Canals Dis-trict	302,363	6,90,026	2,65,336	38.5	0.9	279,307	7,34,039	2,67,708	36.4	0.9	307	626	933	10	943	
Central Hyderabad Canals District	263,546	5,58,228	1,41,926	25.5	0.5	256,180	5,44,279	1,45,639	26.7	0.5	277	654	931	7	938	
Fuleli Canals Dis-trict	417,312	8,26,198	2,91,864	35.3	0.7	407,581	8,78,886	4,56,538	51.9	0.1	195	1,065	1,261	40	1,340	
Total ...	1,491,029	33,54,054	11,87,961	35.1	0.8	1,331,411	32,40,870	13,43,662	41.6	1.0	1,082	2,937	3,909	362	4,361	
Total, Sind ...	3,201,015	77,74,731	30,06,800	38.7	0.9	2,926,915	75,77,335	35,81,250	47.2	1.2	2,443	4,806	7,249	837	8,086	

* Northern Hyderabad Canals District.—Increase of one mile in Bunds is due to construction of Bund between Nasrat and Naulakhi.

† Fuleli Canals District.—Increase of one mile in Bunds is due to extension of new Jamshora Bund and construction of loop to Gida Bund.

TABLE VI.

Direct and Indirect Canal Revenue for 1909-1910.

Canals and Executive Districts.	Water share of Net Consolidated Revenue assessed.	AVERAGE REVENUE BEFORE IMPROVEMENTS.		Balance, Irrigation share due to Canals.	Direct Receipts, Hakábo and Miscellaneous.	Receipts from sale of Occupancy Rights.	Total, Direct and Indirect Receipts.	
		Deduct.	Add.					
1	2	3	4	5	6	7	8	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
MAJOR WORKS.								
PRODUCTIVE WORKS.								
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.								
<i>Canals in Operation.</i>								
Begári Canals District ...	{ Desert Canal	2,32,613	...	...	2,32,613	1,01,774	1,698	3,36,095
	{ Unharwáh	1,81,007	...	...	1,81,007	958	2,747	1,84,712
	{ Begári Canal	5,26,095	33,613	...	4,92,482	43,131	8,439	5,44,052
	Total ...	9,39,715	33,613	...	9,06,102	1,45,863	12,884	10,64,849
Shikárpur Canals District...	{ Mahiwáh	2,03,516	1,10,497	...	93,018	6,020	2,775	1,01,813
Jámráo Canal District ...	{ Jámráo Canal	4,89,012	...	...	4,89,012	20,238	38,372	5,47,622
Northern Canals District.	{ Dád Canal	2,55,674	83,913	...	1,71,761	6,534	6,043	1,84,438
	{ Nasrát Canal	2,53,483	72,854	...	1,80,629	1,291	8,299	1,90,219
	Total ...	5,09,157	1,56,767	...	3,52,390	7,925	14,342	3,74,657
Eastern Nára District ...	{ Nára Supply Channel	8,906	...	...	8,906	726	111	9,743
	{ Eastern Nára	59,036	3,444	...	55,592	9,667	179	65,438
	{ Mithráo Canal	2,86,209	...	...	2,86,209	3,745	326	2,90,280
	{ Thar Canal	1,43,403	...	...	1,43,403	6,562	264	1,50,229
	{ Khipra Canal	8,743	...	...	8,743	2,150	9	10,902
	{ Heran Canal	2,355	...	...	2,355	...	180	2,485
	{ Hiral Canal	42,189	...	...	42,189	722	1,412	44,323
	Total ...	5,50,841	3,444	...	5,47,397	23,572	2,431	5,73,400
	Total, Major Works ...	26,92,240	3,04,321	...	23,87,919	2,03,618	70,804	26,62,341
MINOR WORKS.								
IRRIGATION AND NAVIGATION.								
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.								
<i>Canals in Operation.</i>								
Ghár Canals District ...	{ Sukkur Canal	2,59,251	84,806	...	1,74,445	4,078	776	1,79,299
	{ Ghár Canal	7,34,224	1,35,512	...	5,98,712	16,040	7,486	6,22,233
	Total ...	9,93,475	2,20,318	...	7,73,157	20,118	8,262	8,01,537
Karachi Canals District ...	{ Sattah Canal	37,911	16,145	...	21,766	861	478	23,105
Central Hyderabad Canals District.	{ Alibhar Kacheri	25,276	17,505	...	7,771	630	839	9,240
	{ Marak	1,39,508	59,437	...	80,071	2,404	3,127	85,602
	{ Sarfráz	55,236	18,806	...	36,430	3,576	1,292	41,298
	Total ...	2,20,020	95,748	...	1,24,272	6,610	5,258	1,36,140
Fuleli Canals District ...	{ Fuleli Canal	7,29,960	2,44,549	...	4,85,411	44,601	11,414	5,41,426
	{ Hasanali Canal	43,304	5,916	...	37,388	577	392	38,357
	Total ...	7,73,264	2,50,465	...	5,22,799	45,178	11,806	5,79,733
	Total, Minor Works, Capital and Revenue Accounts ...	20,24,670	5,82,676	...	14,41,994	72,767	25,804	15,40,565
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.								
<i>Canals in Operation.</i>								
Shikárpur Canals District ...	{ Canals in Rohri	1,53,865	...	...	1,53,865	4,753	4,423	1,63,041
	{ Sind Canal	2,15,912	...	...	2,15,912	4,472	7,945	2,28,329
	{ Rajib Canal	33,504	...	...	33,804	630	542	34,976
	{ Chittí Canal	36,209	...	...	36,209	590	517	37,316
	{ Garang Canal	17,281	...	...	17,281	155	638	18,074
	Total ...	4,67,071	...	...	4,57,071	10,600	14,065	4,81,736

TABLE VI—continued.

Canals and Executive Districts.	Water-share of Net Consolidated Revenue assessed.	AVERAGE REVENUE BEFORE IMPROVEMENTS.		Balance, Irrigation share due to Canals.	Direct Receipts, Halabo and Miscellaneous.	Receipts from sale of Occupancy R. ghts.	Total, Direct and Indirect Receipts.
		Deduct.	Add.				
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
MINOR WORKS—continued.							
IRRIGATION AND NAVIGATION—concluded.							
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.							
<i>Canals in Operation—concluded.</i>							
Western Nára District ...	Nára	7,58,266	...	7,58,266	18,039	11,108	7,87,408
	Manchar	30,466	...	30,466	7,665	47	38,178
	Aral	23,512	...	23,512	781	16	24,309
	Pritchard Canal	30,861	...	30,861	1,835	1,011	83,707
	Wahur	7,250	...	7,250	177	108	7,530
	Marvi	12,528	...	12,528	790	889	14,207
	New Feeder, Western Nára... ..	5,325	...	5,325	...	192	5,617
	Dádu Canals	22,195	...	22,195	429	558	23,177
	Phitta	10,507	...	10,507	1,475	508	12,485
	Canals north of Kotri	28,049	...	28,049	1,313	295	29,657
	Total ...	9,28,959	...	9,28,959	32,504	14,712	9,76,175
Northern Hyderabad Canals District.	Mehrabwáh	27,952	...	27,952	196	540	28,688
	Naulákhí	1,26,205	...	1,26,205	1,423	713	1,28,341
	Dambro	34,119	...	34,119	823	529	35,470
	Other Canals	24,549	...	24,549	166	619	25,334
	Total ...	2,12,825	...	2,12,825	2,607	2,401	2,17,833
Central Hyderabad Canals District.	Gharo Mahmúdo	1,50,048	...	1,50,048	6,991	2,345	1,59,384
	Kari Shumáli	64,807	...	64,807	3,618	3,018	71,443
	Nasir	75,656	...	75,656	819	1,276	77,751
	Renwáh	2,461	...	2,461	920	113	3,494
	Other Canals	11,814	...	11,814	115	75	12,004
	Total ...	3,04,786	...	3,04,786	12,468	6,827	3,24,076
Fuleli Canals District ...	Other Canals	57,485	...	57,485	2,911	715	61,111
Karachi Canals District ...	Kalri	36,762	...	36,762	2,161	308	39,231
	Baghar	57,131	...	57,131	2,055	573	59,759
	Uchito	21,275	...	21,275	15	813	22,103
	Canals in Tatta, etc.	19,051	...	19,051	803	217	20,071
	Pinyári	2,15,547	...	2,15,547	6,235	2,968	2,24,750
	Canals in Mirpur Bathoro	34,505	...	34,505	99	490	35,094
	Canals in Sujawal	26,301	...	26,301	364	263	26,928
	Canals in Jati	7,820	...	7,820	61	75	7,956
	Khanto	11,499	...	11,499	138	143	11,780
	Kokawari	34,674	...	34,674	7	233	34,914
	Canals in Shahbandar	4,679	...	4,679	36	67	4,782
	Total ...	4,69,244	...	4,69,244	11,974	6,150	4,87,368
Total, Minor Works, Revenue Accounts only ...		24,30,370	...	24,30,370	73,059	44,870	25,48,299

TABLE VI—concluded.

Canals and Executive Districts.	Water-share of Net Consolidated Revenue assessed.	AVERAGE REVENUE BEFORE IMPROVEMENTS.		Balance, Irrigation share due to Canals.	Direct Receipts, Hakabo and Miscellaneous.	Receipts from sale of Occupancy Rights.	Total, Direct and Indirect Receipts.
		Deduct.	Add.				
1	2	3	4	5	6	7	8
MINOR WORKS—concluded.							
AGRICULTURAL WORKS.							
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.							
Begári Canals District ... Kashnor Bund ...	13,532	...	...	13,532	2,330	363	16,225
Shikárpur Canals District. { Bunds in Rohri ...	...	...	...	...	186	...	186
{ Sukkur-Begári Bund ...	19,044	...	...	19,044	1,150	1,202	21,396
{ Kásimpur Bund ...	3,470	...	...	3,470	66	...	3,536
Total ...	22,514	...	...	22,514	1,402	1,202	25,118
Ghár Canals District ... Ghár Bunds ...	4,316	...	...	4,316	309	27	4,652
Western Nára District ... { Nára Bunds ...	8,786	...	...	8,786	541	20	9,347
{ Bunds north of Kotri ...	2,174	...	...	2,174	16	...	2,190
Total ...	10,960	...	...	10,960	557	20	11,537
Karáchi Canals District ... { Bunds, Right Bank ...	9,608	...	...	9,608	1,495	208	11,311
{ Bunds, Left Bank ...	11,037	...	...	11,037	381	88	11,506
{ Mathematical Instrument Depôt ...	...	...	...	...	...	...	...
Total ...	20,645	...	...	20,645	1,876	296	22,817
Indus River District ...	...	...	...	...	194	...	194
Total, Agricultural Works ...	71,967	...	...	71,967	6,668	1,908	80,543
AVERAGE REVENUE BEFORE IMPROVEMENTS— vide BOMBAY GOVERNMENT RESOLUTIONS NOS. 359, 593 AND 507, DATED 28TH FEBRUARY AND 13TH APRIL 1893 AND 23RD FEBRUARY 1904, AND NOS. 1699 AND 1701, DATED 29TH JUNE 1905, AND NO. 1372, DATED 26TH MAY 1906.							
Begári Canals District ... Begári Canal ...	...	...	33,613	33,613	...	...	33,613
Shikárpur Canals District... Mahiwáh ...	...	...	1,10,497	1,10,497	...	...	1,10,497
Ghár Canals District ... { Sukkur Canal ...	...	...	84,806	84,806	...	...	84,806
{ Ghár Canal ...	...	...	1,35,512	1,35,512	...	...	1,35,512
Total ...	...	...	2,20,318	2,20,318	...	...	2,20,318
Karáchi Canals District ... Sattah Canal ...	...	...	16,145	16,145	...	...	16,145
Jámráo Canal District ... Jámráo Canal ...	...	...	...	...	1	...	1
Eastern Nára District ... Eastern Nára ...	...	...	3,444	3,444	2	...	3,446
Northern Hyderabad Canals District. { Dád Canal ...	...	...	83,913	83,913	820	...	84,733
{ Nasrat Canal ...	...	...	72,854	72,854	524	...	73,378
{ Canal Chowkey at Daulatpur ...	...	...	...	...	93	...	93
{ Other Miscellaneous Receipts ...	...	...	...	...	3	...	3
{ Naulákhi Bhorti Bund ...	...	...	...	...	85	...	85
Total ...	...	...	1,56,767	1,56,767	1,525	...	1,58,292
Central Hyderabad Canals District. { Alibhar Kacheri ...	...	...	17,505	17,505	...	...	17,505
{ Marak ...	...	...	59,437	59,437	400	...	59,837
{ Sarfráz ...	...	...	18,806	18,806	...	...	18,806
Total ...	...	...	95,748	95,748	400	...	96,148
Fuleli Canals District ... { Fuleli Canal ...	...	...	2,44,549	2,44,549	...	...	2,44,549
{ Hasanali Canal ...	...	...	5,916	5,916	40	...	5,956
{ Miscellaneous Receipts ...	...	...	...	...	8	...	8
Total ...	...	...	2,50,465	2,50,465	48	...	2,50,513
Grand Total, Agricultural Works ...	71,967	...	8,86,997	9,58,664	8,644	1,908	9,69,516
Indus Right Bank Division. { Begári Canals District ...	9,53,247	33,613	33,613	9,53,247	1,43,193	13,247	11,14,687
{ Shikárpur Canals District ...	6,33,100	1,10,497	1,10,497	6,33,100	18,022	18,042	7,19,164
{ Ghár Canals District ...	9,97,791	2,20,318	2,20,318	9,97,791	20,427	8,289	10,26,507
{ Western Nára District ...	9,39,919	...	...	9,39,919	33,061	14,732	9,87,712
{ Karáchi Canals District ...	5,27,800	16,145	16,145	5,27,800	14,711	6,924	5,49,435
{ Indus River District ...	...	...	...	...	194	...	194
Total ...	41,01,857	3,80,573	3,80,573	41,01,857	2,34,608	61,234	43,97,699
Indus Left Bank Division. { Jámráo Canal District ...	4,89,012	...	...	4,89,012	20,239	38,372	5,47,623
{ Eastern Nára District ...	5,50,841	3,444	3,444	5,50,841	23,574	2,431	5,76,846
{ Northern Hyderabad Canals District ...	7,21,982	1,56,767	1,56,767	7,21,982	12,057	16,743	7,50,782
{ Central Hyderabad Canals District ...	5,24,806	95,748	95,748	5,24,806	19,473	12,085	5,56,364
{ Fuleli Canals District ...	8,30,749	2,50,465	2,50,465	8,30,749	48,137	12,521	8,91,407
Total ...	31,17,330	5,06,424	5,06,424	31,17,330	1,23,480	82,152	33,23,022
TOTAL, SIND ...	72,19,247	8,86,997	8,86,997	72,19,247	3,58,088	1,43,386	77,20,721

Note.—The figures in columns 2 and 3 are assessments; those in 4 and 5 are actuals.

T A B L E VII.

Area of Cultivation, Consolidated Revenue and Comparison showing Increase or Decrease under Heads—

Canals and Executive Districts.	CULTIVATION.			CONSOLIDATED ASSESSMENT.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
1	2	3	4	5	6	7
MAJOR WORKS.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
PRODUCTIVE WORKS.						
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.						
<i>Canals in Operation.</i>						
Begári Canals District.	Desert Canal	30,389	119,415	2,21,823	80,440	3,02,263
	Unharwáh	26,245	79,373	1,82,621	72,891	2,05,712
	Begári Canal	53,381	188,519	4,04,723	1,83,521	5,88,244
	Total	277,292	110,015	387,307	7,59,367	3,36,852
Shikárpur District.	Mahiwáh	29,892	75,694	1,26,324	1,00,784	2,27,108
Jámráo District.	Jámráo Canal	39,605	171,255	4,19,132	1,39,142	5,58,274
Northern Hyderabad Canals District.	Dád Canal	14,960	99,423	2,31,196	54,937	2,86,133
	Nasrat Canal	12,072	83,681	2,54,624	38,730	2,93,354
	Total	156,072	27,032	183,104	4,85,820	93,667
	Nára Supply Channel	3,229	3,435	788	9,145	9,933
	Eastern Nára	14,386	36,896	41,237	25,091	66,328
	Mithráo Canal	16,953	99,126	2,80,293	52,956	3,33,249
	Thar Canal	2,187	46,854	1,54,738	7,013	1,61,751
	Khípra Canal	1,180	5,559	7,935	1,779	9,714
	Heran Canal	370	1,188	1,647	970	2,617
	Hiral Canal	2,529	15,329	37,703	10,107	47,810
	Total	40,834	207,387	5,24,341	1,07,061	6,31,402
	Total, Major Works	777,369	247,378	1,024,747	23,14,984	7,77,506
MINOR WORKS.						
IRRIGATION AND NAVIGATION.						
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.						
<i>Canals in Operation.</i>						
Ghár Canals District.	Sukkur Canal	14,829	86,499	2,36,361	54,031	2,90,392
	Ghár Canal	22,873	220,765	7,86,323	1,05,026	8,41,349
	Total	37,702	307,264	9,72,684	1,59,057	11,31,741
Kárdchi Canals District.	Sattah Canal	926	16,253	40,921	2,020	42,941
Central Hyderabad Canals District.	Alibhar Kacheri	233	10,800	27,493	591	28,084
	Marak	2,756	53,363	1,46,952	8,297	1,55,249
	Sarfrázwáh	956	27,492	57,969	3,404	61,373
	Total	3,945	91,655	2,32,414	12,292	2,44,706
Fuleli Canals District.	Fuleli Canal	38,032	305,096	7,25,245	94,090	8,19,335
	Hasanali Canal	304	16,940	47,804	833	48,637
	Total	38,336	322,036	7,73,049	94,923	8,67,972
	Total, Minor Works, Capital and Revenue Accounts	30,909	737,208	20,19,068	2,68,292	22,87,360
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.						
<i>Canals in Operation.</i>						
Shikárpur District.	Canals in Rohri	19,935	47,240	99,548	72,093	1,71,641
	Sind Canal	13,286	62,956	1,94,920	49,884	2,44,804
	Rajib Canal	2,234	8,262	27,544	10,142	37,686
	Chitti Canal	3,317	8,820	25,773	14,552	40,325
	Garang Canal	2,547	4,513	8,686	10,515	19,201
	Total	41,319	131,791	3,56,471	1,57,186	5,13,657

VII.

Kharif, Rabi and Irrigation Share of Net Consolidated Assessment for 1908-1909 and 1909-1910.

EMISSIONS.			Net Consolidated Assessment.	Irrigation share, 90 per cent.	FIGURES OF PREVIOUS YEAR.			RESULTS AS COMPARED WITH PREVIOUS YEAR.		
Kharif.	Rabi.	Total.			Cultivation.		Irrigation share of Net Consolidated Assessment.	Cultivation.		Irrigation share of Net Consolidated Assessment.
					Kharif.	Rabi.		Kharif.	Rabi.	
8	9	10	11	12	13	14	15	16	17	18
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Rs.	Acres.	Acres.	Rs.
29,462	14,342	43,804	2,58,459	2,32,613	83,375	40,798	2,65,680	+ 5,651	-10,404	-33,067
2,509	2,086	4,595	2,01,117	1,81,007	56,808	24,193	1,84,819	-3,680	+ 2,052	-3,312
1,269	2,425	3,694	5,84,550	5,26,095	150,048	73,318	5,94,395	-14,910	-19,937	-68,300
33,240	18,853	52,093	10,44,126	9,39,715	290,231	138,304	10,44,894	-12,939	-28,289	-1,04,679
699	281	980	2,26,128	2,03,515	53,640	36,353	2,41,748	-7,898	-6,461	-38,233
12,646	2,232	14,928	5,43,346	4,89,012	184,793	17,252	5,48,869	-53,143	+ 22,353	-59,857
1,444	607	2,051	2,84,082	2,55,674	86,133	20,474	2,67,657	-1,670	-5,514	-11,983
5,278	6,428	11,706	2,81,648	2,58,483	86,953	33,419	3,11,002	-14,344	-21,347	-67,619
6,722	7,035	13,757	5,65,730	5,09,157	172,086	53,893	5,78,659	-16,014	-26,861	-69,502
15	22	37	9,896	8,906	438	9,728	24,747	-232	-6,499	-15,811
579	153	732	65,596	59,036	21,815	63,380	1,14,009	+ 695	-48,994	-51,973
14,443	796	15,239	3,18,010	2,86,209	101,953	6,203	2,79,513	-19,780	+ 10,750	+ 6,096
2,334	81	2,415	1,59,336	1,43,403	43,997	839	1,36,767	-330	+ 1,348	+ 6,686
...	...	...	9,714	8,743	3,123	955	5,403	+ 1,266	+ 225	+ 3,340
...	...	...	2,617	2,355	1,076	1	2,133	-258	+ 369	+ 222
933	...	933	46,877	42,189	14,850	623	43,513	-2,050	+ 1,901	-1,924
18,304	1,052	19,356	6,12,046	5,50,841	187,252	81,734	6,06,085	-20,699	-40,900	-56,244
71,611	29,503	1,01,114	29,91,376	28,92,240	888,002	327,536	30,19,755	-110,633	-80,158	-3,27,515
254	2,082	2,336	2,88,056	2,59,251	73,066	20,249	2,73,043	-1,936	-5,420	-14,692
21,912	3,632	25,544	8,15,805	7,34,224	216,757	51,277	8,17,927	-1,565	-28,404	-83,793
22,166	5,714	27,880	11,03,861	9,93,475	289,823	71,526	10,91,870	-20,261	-33,824	-98,305
547	271	818	42,123	37,911	15,077	1,864	23,552	+ 250	-938	+ 14,359
...	...	...	28,084	25,276	10,033	274	23,548	+ 534	-45	+ 1,725
240	...	240	1,56,009	1,33,403	54,672	3,635	1,54,710	-4,065	-879	-15,222
...	...	...	61,373	55,236	23,069	1,662	61,291	-2,533	-706	-6,655
240	...	240	2,44,466	2,20,020	93,774	5,575	2,39,549	-6,064	-1,630	-19,529
7,513	756	8,269	3,11,066	2,29,960	270,469	38,153	7,07,004	-3,405	-121	+ 22,956
521	...	521	48,116	43,304	15,704	530	37,694	+ 932	-276	+ 5,610
8,034	756	8,790	8,59,182	7,73,264	286,173	38,733	7,44,698	-2,473	-397	+ 28,566
30,987	6,741	37,728	22,49,632	20,24,670	684,847	117,098	20,99,669	-25,548	-36,789	-74,999
515	166	681	1,70,960	1,53,365	36,056	23,560	1,88,339	-8,751	-3,625	-34,474
4,850	52	4,902	2,33,902	2,15,912	72,361	17,679	3,01,705	-22,691	-4,303	-8,793
126	...	126	37,560	38,504	7,214	2,362	37,874	-1,186	-123	-4,070
93	...	93	40,232	36,209	6,619	4,845	44,300	-1,116	-1,528	-8,091
...	...	...	19,201	17,281	2,517	3,495	22,297	-551	-948	-5,016
5,584	218	5,802	5,07,855	4,57,071	124,767	51,941	5,94,515	-34,295	-10,622	-1,37,444

TABLE

Canals and Executive Districts.	CULTIVATION.			CONSOLIDATED ASSESSMENT.				
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.		
1	2	3	4	5	6	7		
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.		
MINOR WORKS—continued.								
IRRIGATION AND NAVIGATION—concluded.								
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.								
Canals in Operation—concluded.								
Western Nára District.	Nára	181,780	98,478	220,208	7,14,276	1,65,927	8,80,203	
	Manchar	3,099	8,085	11,184	9,971	26,622	36,593	
	Aral	3,308	5,387	8,695	9,803	19,523	29,826	
	Pritchard Canal	8,212	1,116	9,328	31,245	5,209	36,454	
	Wáhur	904	1,579	2,483	3,494	5,012	8,506	
	Marvi	2,913	1,715	4,628	8,494	5,755	14,249	
	New Feeder, Western Nára	1,190	249	1,439	5,026	891	5,917	
	Dádu Canals	7,719	2,085	9,754	18,287	6,486	24,773	
	Phitta Canals	4,188	786	4,974	9,347	2,569	11,916	
	Canals, north of Kotri	7,681	3,806	11,487	21,028	11,518	32,546	
	Total ...	220,944	63,236	284,180	8,30,971	2,49,512	10,80,483	
Northern Hyderabad Canals District.	Mehrabwah	12,260	334	12,594	30,044	1,090	31,134	
	Naulakhi	41,512	5,095	46,607	1,25,483	14,787	1,40,270	
	Dámbo	11,424	2,224	13,648	30,887	7,023	37,910	
	Other Canals	7,255	2,808	10,063	18,079	9,198	27,277	
	Total ...	72,451	10,461	82,912	2,04,493	32,098	2,36,591	
Central Hyderabad Canals District.	Gháro Mahmudo	55,766	5,574	61,340	1,49,006	17,790	1,66,796	
	Kari Shumáli	27,015	1,337	28,352	67,726	4,282	72,008	
	Nasir	30,321	1,942	32,263	76,314	7,748	84,062	
	Renwah	465	469	934	1,183	1,607	2,790	
	Other Canals	4,634	551	5,185	11,110	2,017	13,127	
	Total ...	113,201	9,873	123,074	3,05,339	38,444	3,38,783	
Fuleli Canals District.	Other Canals	19,113	2,283	21,396	57,808	7,417	65,225	
Karachi District.	Canals	Kairi	15,212	2,229	17,441	35,166	6,299	41,465
		Baghar	27,237	5,277	32,514	54,721	13,048	67,769
		Uchito	13,602	1,173	14,775	21,632	2,377	23,959
		Canals in Tatta, etc.	9,004	1,891	10,895	19,303	4,159	23,462
		Pinyári	73,080	3,724	76,804	2,38,647	9,225	2,47,872
		Canals in Mirpur Bathoro	12,204	550	12,754	37,355	1,750	39,105
		Canals in Sujawal	8,975	1,372	10,347	25,723	3,506	29,228
		Canals in Jati... ..	2,458	879	3,337	6,992	1,863	8,855
		Khanto	4,875	267	5,142	12,970	580	13,550
		Canals in Sháhbandar	1,954	122	2,076	5,129	192	5,321
		Kokawári	15,186	561	15,747	37,324	1,305	38,629
	Total ...	183,787	18,045	201,832	4,94,911	44,304	5,39,215	
Total, Minor Works, Revenue Accounts only ...		709,968	145,217	855,185	22,49,993	5,23,961	27,73,954	

VII—continued.

REMISSIONS.			Net Consolidated Assessment.	Irrigation share, 90 per cent.	FIGURES OF PREVIOUS YEAR.			RESULTS AS COMPARED WITH PREVIOUS YEAR.		
Kharif.	Rabi.	Total.			Cultivation.		Irrigation share of Net Consolidated Assessment.	Cultivation.		Irrigation share of Net Consolidated Assessment.
					Kharif.	Rabi.		Kharif.	Rabi.	
8	9	10	11	12	13	14	15	16	17	18
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Rs.	Acres.	Acres.	Rs.
30,293	7,393	37,686	8,42,517	7,58,266	197,796	54,678	8,17,639	-16,066	-16,200	-59,373
1,014	1,728	2,742	38,851	30,466	2,948	12,630	36,175	+151	-4,545	-5,709
1,398	1,803	3,201	26,125	23,512	3,852	7,202	31,522	-544	-1,815	-8,010
1,856	808	2,164	34,290	30,861	9,592	1,370	32,946	-1,380	-254	-2,085
582	69	461	8,055	7,250	1,084	1,501	7,681	-180	+78	-431
310	19	329	13,920	12,528	3,500	2,252	14,722	-587	-537	-2,194
...	...	...	5,917	5,325	1,374	273	5,611	-184	-24	-286
56	56	112	24,661	22,195	7,884	4,266	28,462	-165	-2,231	-6,267
30	212	242	11,674	10,507	4,307	2,066	14,733	-119	-1,279	-4,226
989	391	1,380	81,166	28,049	6,422	4,337	25,786	+1,259	-551	+2,263
36,328	11,979	48,307	10,92,176	9,28,959	288,759	90,594	10,15,277	-17,815	-27,358	-86,318
76	...	76	91,058	27,952	11,556	2,285	83,589	+704	-1,951	-5,637
...	43	43	1,40,227	1,26,205	49,160	8,817	1,40,916	-1,648	-3,722	-14,711
...	...	...	37,910	34,119	11,192	1,790	34,097	+232	+434	+22
...	...	...	27,277	24,549	7,307	4,274	28,363	-52	-1,466	-3,814
76	43	119	2,96,472	2,12,825	73,215	17,168	2,36,965	-764	-6,705	+24,140
76	...	76	1,66,720	1,50,048	58,596	5,465	1,55,851	-2,830	+109	-5,803
...	...	...	72,008	61,807	29,060	1,893	68,567	-2,045	-556	-3,760
...	...	...	84,062	75,656	33,451	2,694	85,150	-3,130	-752	-9,494
55	...	55	2,735	2,461	370	482	1,997	+95	-13	+464
...	...	...	13,127	11,814	3,629	1,078	11,137	+1,005	-527	+677
131	...	131	3,38,652	3,04,786	125,106	11,612	3,22,702	-6,905	-1,739	-17,916
1,272	81	1,353	63,872	57,435	19,493	2,336	46,564	-380	-53	+10,921
201	417	618	40,847	36,762	14,544	3,382	25,758	+668	-1,153	+11,004
2,163	2,127	4,290	63,479	57,131	23,276	7,209	46,142	+1,961	-1,932	+10,989
64	256	320	23,639	21,275	11,733	1,832	17,388	+1,569	-659	-3,387
1,352	942	2,294	21,168	19,051	11,614	3,429	8,226	+2,610	-1,538	+10,825
7,711	664	8,375	2,39,497	2,15,547	80,260	10,515	1,55,163	-2,170	-6,791	+60,384
621	145	766	38,339	34,505	11,257	613	30,227	+947	-63	+4,278
...	5	5	23,223	26,301	8,032	4,271	9,226	+943	-2,899	+17,075
88	78	166	8,689	7,850	1,721	1,078	6,144	+737	-199	+1,676
774	...	774	12,776	11,499	4,179	557	7,933	+696	-290	+3,566
122	...	122	5,199	4,679	1,741	124	1,941	+213	-2	+2,738
...	102	102	38,527	34,674	14,097	988	29,436	+1,089	-427	+5,238
13,096	4,736	17,832	5,21,333	4,69,244	184,444	33,998	3,38,084	+4,343	-15,953	+1,31,160
56,487	17,057	73,544	27,00,410	4,30,370	765,784	207,647	25,54,107	-55,816	-62,430	-1,23,737

TABLE.

Canals and Executive Districts.				CULTIVATION.			CONSOLIDATED ASSESSMENT.		
				Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
1				2	3	4	5	6	7
MINOR WORKS—concluded.				Acre.	Acre.	Acre.	Rs.	Rs.	Rs.
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begári District.	Canals	Káshmor Bund	...	3,603	3,371	6,974	7,522	8,568	16,090
Shikárpur District.	Canals	Bunds in Rohri	...	.....	.....	.....	.....	.....	.....
		Sukkur-Begári Bund	...	2,009	3,194	5,203	8,445	13,207	21,652
		Kásimpur Bund	...	363	726	1,089	1,033	2,823	3,856
Total ...				2,372	3,920	6,292	9,478	16,030	25,508
Ghár District.	Canals	Ghár Bunds	...	734	459	1,193	3,200	1,779	4,979
Western District.	Nára	Nára Bunds	...	1,905	561	2,466	8,253	2,164	10,417
		Bunds, north of Kotri	...	301	469	770	938	1,478	2,416
Total ...				2,206	1,030	3,236	9,191	3,642	12,833
Karáchi District.	Canals	Bunds, Right Bank	...	4,872	618	5,490	9,363	1,500	10,863
		Bunds, Left Bank	...	3,698	360	4,058	11,143	1,120	12,263
Total ...				8,570	978	9,548	20,506	2,620	23,126
Total, Agricultural Works ...				17,485	9,758	27,243	49,897	32,639	82,536
Indus Right Bank Division.	Canals	Begári Canals District	...	230,895	113,386	394,281	7,66,889	3,45,420	11,12,309
		Shikárpur Canals District	...	138,616	75,131	213,747	4,92,273	2,74,000	7,66,273
		Ghár Canals District	...	270,296	38,161	308,457	9,75,384	1,60,836	11,36,220
		Western Nára District	...	223,150	64,266	287,416	8,40,162	2,53,154	10,93,316
		Karáchi Canals District	...	212,684	19,949	232,633	5,56,338	48,944	6,05,282
Total ...				1,125,671	310,893	1,436,564	36,31,546	10,82,354	47,13,900
Indus Left Bank Division.	Canals	Jámráo Canal District	...	131,650	39,605	171,255	4,19,132	1,39,142	5,58,274
		Eastern Nára District	...	166,553	40,834	207,387	5,24,341	1,07,061	6,31,402
		Northern Hyderabad Canals District	...	228,523	37,493	266,016	6,90,313	1,25,765	8,16,078
		Central Hyderabad Canals District	...	205,911	13,818	219,729	5,37,753	45,736	5,83,489
		Fuleli Canals District	...	302,813	40,619	343,432	8,30,857	1,02,340	9,33,197
Total ...				1,035,450	172,369	1,207,819	30,02,396	5,20,044	35,22,440
TOTAL, SIND ...				2,161,121	483,262	2,644,383	66,33,942	16,02,398	82,36,340

Note.—The figures in this

-VII—concluded.

REMISSIONS.			Net Consolidated Assessment.	Irrigation share, 80 per cent.	FIGURES OF PREVIOUS YEAR.			RESULTS AS COMPARED WITH PREVIOUS YEAR.		
Kharif.	Rabi.	Total.			Cultivation.		Irrigation share of Net Consolidated Assessment.	Cultivation.		Irrigation share of Net Consolidated Assessment.
					Kharif.	Rabi.		Kharif.	Rabi.	
8	9	10	11	12	13	14	15	16	17	19
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Rs.	Acres.	Acres.	Rs.
230	824	1,054	15,036	13,532	4,260	4,667	17,969	-657	-1,296	-4,437
...
264	228	492	21,160	19,044	4,148	4,701	31,816	-2,139	-1,507	-12,772
...	...	...	3,856	3,470	650	2,429	9,426	-287	-1,703	-5,956
264	228	492	25,016	22,514	4,798	7,130	41,242	-2,426	-3,210	-18,728
184	...	184	4,795	4,316	706	450	4,013	+28	+9	+303
655	...	655	9,762	8,786	3,548	1,630	15,837	-1,643	-1,069	-7,051
...	...	...	2,416	2,174	474	87	1,435	-173	+382	+739
655	...	655	12,173	10,960	4,022	1,717	17,272	-1,816	-687	-6,312
...	188	188	16,675	9,608	4,913	890	4,166	-41	-281	+5,442
...	...	...	12,263	11,037	3,131	486	4,023	+567	-126	+7,014
...	188	188	22,938	20,645	8,014	1,385	8,189	+526	-407	+12,456
1,333	1,240	2,573	79,963	71,967	21,330	15,349	88,685	-4,345	-5,591	-16,718
33,470	19,677	53,147	10,59,162	9,53,247	291,491	142,971	10,62,363	-13,596	-29,585	-1,09,116
6,547	727	7,274	7,58,999	6,83,100	183,205	95,424	8,77,505	-44,559	-20,233	-1,94,405
22,350	5,714	28,064	11,08,656	9,97,791	290,529	71,976	10,95,883	-20,233	-33,815	-98,092
36,983	11,979	48,962	10,44,354	9,39,919	242,781	92,311	10,32,549	-19,631	-28,045	-92,630
13,643	5,195	18,838	5,86,444	5,27,800	207,565	37,247	3,60,825	+5,119	-17,293	+1,57,975
1,12,993	43,292	1,56,285	45,57,615	41,01,857	1,218,571	439,929	44,38,125	-92,900	-129,036	-3,36,268
12,646	2,282	14,928	5,13,346	4,89,012	184,793	17,252	5,48,669	-53,143	+22,353	-59,857
18,304	1,052	19,356	6,12,046	5,53,841	187,252	81,734	6,06,085	-20,699	-40,900	-55,244
6,798	7,078	13,876	8,02,202	7,21,982	245,301	71,059	8,15,624	-16,778	-33,566	-93,642
371	...	371	5,83,118	5,24,806	218,880	17,187	5,62,251	-12,969	-3,369	-37,445
9,306	837	10,143	9,23,054	8,30,749	305,666	41,069	7,91,262	-2,853	-450	+39,487
47,425	11,249	58,674	84,63,766	31,17,390	1,141,892	228,301	33,24,091	-106,442	-55,932	-2,06,701
1,60,418	54,541	2,14,959	80,21,381	72,19,247	2,300,463	668,230	77,62,216	-199,342	-184,963	-5,42,969

statement are Assessments.

TABLE VII-A.

Statement showing Receipts from Sale of Occupancy Rights in Waste or other Lands not belonging to Major and Minor Works, but directly benefited by their construction for the year 1909-1910.

Canals and Executive Districts.	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.	
	Taluka.	Village.	Area.	Assessment.						
1	2	3	4	5	6	7	8	9	10	
MAJOR WORKS.										
PRODUCTIVE WORKS.										
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.										
<i>Canals in Operation.</i>										
Begári Canals District.	Dis-	}	Desert Canal ...	227	50	453	45	408	16	
			Unharwáh ...	1,164	1,417	1,092	109	983	39	
			Begári Canal ...	639	728	1,878	188	1,690	68	
			Total ...	2,030	2,195	3,423	342	3,081	123	
Shikárpur District.	Canals	}	Mahiwáh ...	1,563	2,226	2,769	276	2,483	99	
Jámráo Canal District.	Dis-	}	Jámráo Canal.	3,677	4,002	41,295	4,129	37,166	1,487	
Northern Hyderabad Canals District.	Dis-	}	Dád Canal ...	5,436	4,698	6,812	681	6,131	245	
			Nasrat Canal ...	6,065	5,915	24,742	2,474	22,268	891	
Total ...				11,491	10,613	31,554	3,155	28,399	1,186	
Eastern Nára District.	Dis-	}	Nára Supply Channel ...	215	11	227	23	204	8	
			Eastern Nára ...	75	20	5	1	4	...	
			Mithrao Canal ...	57	...	...	...	...	...
			Thar Canal ...	13	...	...	...	...	...
			Khípra Canal ...	...	...	...	...	...	...
			Heran Canal ...	...	...	...	...	...	...
			Híral Canal ...	344	491	2,123	212	1,911	76	
Total ...				704	522	2,355	236	2,119	84	
Total, Major Works ...				19,465	19,558	81,366	8,139	73,247	2,929	
MINOR WORKS.										
IRRIGATION AND NAVIGATION.										
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.										
<i>Canals in Operation.</i>										
Ghár Canals District.	Dis-	}	Sukkur Canal ...	51	108	136	14	122	5	
			Ghár Canal ...	3,089	5,086	6,381	638	5,743	230	
Total ...				3,140	5,194	6,517	652	5,865	235	
Karáchi Canals District.	Dis-	}	Sattah Canal ...	1,114	2,881	2,345	234	2,111	84	
Central Hyderabad Canals District.	Dis-	}	Alibhar Kacheri ...	99	103	113	11	102	4	
			Márák ...	801	1,398	3,937	394	3,543	142	
			Sarráz ...	154	335	177	18	159	6	
Total ...				994	1,836	4,227	423	3,804	152	
Fuleli Canals District.	Dis-	}	Fuleli Canal ...	5,640	11,379	9,251	925	8,326	333	
			Hasanali Canal ...	...	...	45	5	40	2	
Total ...				5,640	11,379	9,296	930	8,366	335	
Total, Minor Works, Capital and Revenue Accounts ...				10,888	21,290	22,385	2,239	20,146	806	

Too numerous to mention.

Too numerous to mention.

TABLE VII-A—continued.

Canals and Executive Districts,	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sum to be credited as Indirect Revenue calculated at 4 per cent on Irrigation Share.	Remarks.
	Táluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MINOR WORKS—continued.									
IRRIGATION AND NAVIGATION—concluded.									
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation.—concluded.</i>									
Shikárpur District.	Canals	Canals in Rohri	207	331	632	63	569	23	
		Sind Canal ...	612	319	3,728	373	3,355	134	
		Rajib do. ...	40	24	67	7	60	2	
		Chitti do. ...	236	372	355	36	319	13	
		Garang do. ...	140	107	314	31	283	11	
		Total ...		1,235	1,153	5,096	510	4,586	183
Western Nára District.	Canals	Nára ...	227	123	634	63	571	23	
		Manchar ...	...	...	...	...	...	...
		Aral ...	...	...	...	...	...	...
		New Feeder, Western Nára ...	...	...	...	...	...	...
		Pritchard Canal ...	123	353	...	...	...	...
		Wahur ...	...	...	...	...	...	...
		Márvi ...	...	...	...	...	...	...
		Dádu Canals ...	...	...	...	...	...	...
		Phitta ...	...	...	...	...	...	...
		Canals, north of Kotri ...	265	709	978	98	880	35	
Total ...		615	1,186	1,612	161	1,451	58		
Northern Hyderabad Canals District.	Canals	Mehrabwah ...	8	14	20	2	18	1	
		Naulákhí ...	...	...	...	...	...	...
		Dámbro ...	233	395	370	27	333	13	
		Other Canals ...	39	...	42	4	38	2	
Total ...		280	409	432	43	339	16		
Central Hyderabad Canals District.	Canals	Gháro Mahmudó ...	519	1,325	963	96	867	35	
		Kari Shumáli ...	578	1,188	2,511	251	2,260	90	
		Nasir ...	360	848	541	54	487	19	
		Renwáh ...	...	...	...	...	...	...
		Other Canals ...	13	32	16	2	14	1	
Total ...		1,468	3,393	4,031	408	3,628	145		
Fuleli Canals District.	Other Canals ...	11	38	30	3	27	1		
Karachi Canals District.	Canals	Kalri ...	272	601	338	34	304	12	
		Bághar ...	231	432	289	29	260	10	
		Canals in Tatta, etc. ...	113	247	154	16	142	6	
		Uchito ...	611	1,257	2,368	237	2,131	85	
		Pinyári ...	2,158	6,184	2,912	291	2,621	105	
		Canals in Mirpur Bathoro ...	559	1,642	940	94	846	34	
		Canals in Sujáwal ...	465	1,394	1,000	100	900	36	
		Canals in Jati ...	40	90	64	6	58	2	
		Canals in Sháhbandar ...	82	186	102	10	92	4	
		Khantó ...	179	517	267	27	240	10	
		Kokawári ...	20	30	31	3	28	1	
Total ...		4,730	12,580	8,469	847	7,622	305		
Total, Minor Works, Revenue Accounts only ...			8,339	18,758	19,670	1,967	17,703	708	

Too numerous to mention.

Too numerous to mention.

TABLE VII-A—concluded.

Canals and Executive Districts, 1	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights. 6	Land Share $\frac{1}{10}$. 7	Irrigation Share $\frac{9}{10}$. 8	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share. 9	Remarks. 10
	Taluka. 2	Village. 3	Area. 4	Assessment. 5					
MINOR WORKS—concluded.									
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begari Canals District. } Kashmor Bund ...			397	59	199	20	179	7	
Shikarpur Canals District. } Bunds in Rohri ... Sukkur-Begari Bund... Kasimpur Bund ...			2	...	4	...	4	...	
			
	Total ...		2	...	4	...	4	...	
Ghar Canals District. } Ghar Bunds ...			...	...	...	...	...	...
Western Nara District. } Nara Bunds ... Manjhand Bunds ...			...	...	...	...	...	...
	Total ...		...	...	...	...	...	...
Karachi Canals District. } Bunds, Right Bank ... Bunds, Left Bank ...			23	42	44	4	40	2	
			105	303	169	17	152	6	
	Total ...		128	345	213	21	192	8	
Total, Agricultural Works ...			527	404	416	41	375	15	
Indus Right Bank Division. } Begari Canals District ... Shikarpur Canals District ... Ghar Canals District ... Western Nara District ... Karachi Canals District ...			2,427	2,254	3,622	362	3,260	130	
			2,800	3,379	7,859	786	7,073	282	
			3,140	5,194	6,517	652	5,865	235	
			615	1,185	1,612	161	1,451	58	
			5,972	15,806	11,027	1,102	9,925	397	
	Total ...		14,954	27,818	30,637	3,063	27,574	1,102	
Indus Left Bank Division. } Jamrao Canal District ... Eastern Nara District ... Northern Hyderabad Canals District ... Central Hyderabad Canals District ... Fuleli Canals District ...			3,677	4,002	41,295	4,129	37,166	1,487	
			704	522	2,355	236	2,119	84	
			11,771	11,022	31,986	3,198	28,788	1,152	
			2,462	5,229	8,258	826	7,432	297	
			5,651	11,417	9,326	933	8,393	336	
Total ...		24,265	32,192	93,220	9,322	83,898	3,356		
Total, Sind ...			39,219	60,010	1,23,857	12,385	1,11,472	4,458	

TABLE VIII

TABLE

Abstract of Crop Return of Government,

Canals, Districts and Crops.	1906-1906.			1906-1907.			1907-1908.			
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Be ári Canals...	<i>Kharij.</i>									
	Rice... ..	...	71,711	71,711	...	93,972	93,972	...	68,646	68,646
	Jowari ...	45,510	143,173	188,683	40,456	130,997	171,453	30,375	105,243	135,618
	Báji ...	9,280	66,760	76,040	10,976	73,567	84,543	10,314	59,421	69,735
	Cotton ...	5	1,507	1,512	14	1,823	1,837	14	704	718
	Other Crops .	1,762	63,388	65,150	1,295	40,655	41,950	2,142	40,962	43,104
	Total ...	56,557	346,539	403,096	52,741	341,014	393,755	42,845	274,976	317,821
	<i>Rabi.</i>									
	Wheat ...	274	52,551	52,825	66	35,538	35,604	37	23,345	23,382
	Barley ...	17	121	138	1	104	105	1	93	94
Oil-seeds ...	1,795	43,357	45,152	2,960	40,523	43,483	1,268	56,864	58,132	
Other Crops .	50	104,926	104,976	27	121,560	121,587	10	108,732	108,742	
Total ...	2,136	200,955	203,091	3,054	197,725	200,779	1,316	189,034	190,350	
Grand Total.	58,693	547,494	606,187	55,795	538,739	594,534	44,161	464,010	508,171	
Shikárpur Canals.	<i>Kharij.</i>									
	Rice... ..	...	48,661	48,661	...	59,241	59,241	...	49,087	49,087
	Jowari ...	39,958	89,829	129,787	30,837	67,178	98,015	35,671	52,472	88,143
	Báji ...	4,239	9,411	13,656	4,641	10,577	15,218	4,126	7,449	11,575
	Cotton ...	371	1,039	1,410	287	1,692	1,979	177	750	927
	Other Crops .	796	10,326	11,122	920	10,692	11,612	830	9,832	10,662
	Total ...	46,121	158,509	204,630	36,685	149,380	186,065	40,804	119,590	160,394
	<i>Rabi.</i>									
	Wheat ...	681	61,599	62,280	1,176	82,043	83,224	1,418	59,201	60,619
	Barley ...	7	233	240	1	323	323	48	177	225
Oil-seeds ...	11	10,373	10,389	59	20,297	20,356	33	10,343	10,376	
Other Crops..	92	26,869	26,961	23	37,633	37,656	42	24,018	24,060	
Total ...	791	99,079	99,870	1,259	140,306	141,565	1,541	93,739	95,280	
Grand Total.	46,912	257,588	304,500	37,944	289,686	327,630	42,345	213,329	255,674	
Ghár Canals ...	<i>Kharij.</i>									
	Rice... ..	...	235,477	235,477	...	255,776	255,776	...	198,926	198,926
	Jowari ...	11,471	62,201	73,672	8,623	46,646	55,269	11,527	53,040	64,567
	Báji ...	413	2,424	2,837	372	2,232	2,604	693	2,049	2,742
	Cotton ...	14	98	112	23	215	238	17	54	71
	Other Crops .	1,643	9,231	10,874	849	7,071	7,920	1,987	5,769	7,756
	Total ...	13,541	309,431	322,972	9,867	311,940	321,807	14,224	259,838	274,062
	<i>Rabi.</i>									
	Wheat ...	1,302	34,725	36,027	1,237	38,874	40,111	749	25,710	26,459
	Barley ...	10	80	90	8	106	114	14	96	110
Oil-seeds ...	1,081	38,641	39,722	816	43,626	44,442	366	25,498	25,864	
Other Crops .	135	118,639	118,774	182	138,186	138,368	215	83,435	83,650	
Total ...	2,528	192,085	194,613	2,243	220,792	223,035	1,344	134,739	136,083	
Grand Total.	16,069	501,616	517,585	12,110	532,732	544,842	15,568	394,577	410,145	
Western Nára .	<i>Kharij.</i>									
	Rice... ..	17	122,801	122,818	8	137,707	137,715	150	119,848	119,998
	Jowari ...	39,779	83,100	122,879	42,987	47,208	90,195	41,397	33,853	75,250
	Bajri ...	6,950	4,882	11,832	6,845	4,234	11,079	8,311	4,088	12,399
	Cotton ...	315	140	455	186	126	312	132	27	159
	Other Crops .	880	3,317	4,197	724	2,736	3,460	1,473	3,240	4,713
	Total ...	47,941	214,240	262,181	50,750	192,011	242,761	51,463	161,056	212,519

VIII

Foreign and Sâghir Lands for five years.

1909-1909.			1909-1910.			Percentage of Lift and Flow.			Per cent. of Kharif and Rabi.	Canals, Districts and Crops.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
...	63,663	63,663	...	81,307	81,307	...	100	100	...	<i>Kharif.</i>
38,289	145,171	183,460	36,706	132,406	169,112	22	78	100	...	Rice
9,239	57,675	66,914	10,782	52,141	62,923	17	83	100	...	Jowari
11	191	202	2	248	250	1	99	100	...	Bâjri
2,147	47,794	49,941	1,319	36,764	38,083	3	97	100	...	Cotton
49,686	314,494	364,180	48,809	302,866	351,675	14	86	100	63	Other Crops
										Total.
										<i>Rabi.</i>
281	45,189	45,470	340	38,506	38,846	1	99	100	...	Wheat
...	88	88	3	109	112	3	97	100	...	Barley
6,887	68,762	75,649	3,829	31,717	35,546	11	89	100	...	Oil-seeds
89	124,207	124,296	51	129,369	129,420	...	100	100	...	Other Crops
7,257	238,246	245,503	4,223	199,701	203,924	2	98	100	37	Total.
56,948	552,740	609,683	53,032	502,567	555,599	10	90	100	100	Grand Total.
										<i>Kharif.</i>
...	55,801	55,801	...	58,354	58,354	...	100	100	...	Rice
38,511	83,199	121,710	37,863	35,990	73,853	51	49	100	...	Jowari
4,540	8,899	13,439	6,469	6,913	13,382	18	53	100	...	Bâjri
98	505	603	82	320	402	20	80	100	...	Cotton
668	9,276	9,944	873	7,608	8,481	10	90	100	...	Other Crops
43,817	157,680	201,497	45,287	109,185	154,472	29	71	100	57	Total.
										<i>Rabi.</i>
1,284	84,832	86,116	843	67,390	68,233	1	99	100	...	Wheat
3	327	330	12	855	367	3	97	100	...	Barley
14	19,310	19,324	35	12,325	12,360	...	100	100	...	Oil-seeds
27	39,527	39,564	66	35,745	35,811	...	100	100	...	Other Crops
1,328	143,996	145,324	956	115,815	116,771	1	99	100	43	Total.
45,145	301,676	346,821	46,243	225,000	271,243	17	83	100	100	Grand Total.
										<i>Kharif.</i>
...	177,852	177,852	8	233,657	233,665	...	100	100	...	Rice
15,404	95,754	111,158	12,187	27,639	39,828	31	69	100	...	Jowari
724	2,490	3,214	706	833	1,539	46	54	100	...	Bâjri
3	18	21	5	7	12	42	58	100	...	Cotton
2,488	8,490	10,978	2,020	4,883	6,903	29	71	100	...	Other Crops
18,619	284,104	302,723	14,926	267,019	281,945	5	95	100	59	Total.
										<i>Rabi.</i>
1,284	48,036	49,320	1,270	40,921	42,191	3	97	100	...	Wheat
24	68	92	8	59	67	12	89	100	...	Barley
1,940	60,407	62,347	289	30,874	31,163	1	99	100	...	Oil-seeds
314	95,926	96,240	304	115,469	118,773	...	100	100	...	Other Crops
3,562	204,437	207,999	1,871	190,323	192,194	1	99	100	41	Total.
22,181	488,541	510,722	16,797	457,342	474,139	4	96	100	100	Grand Total.
										<i>Kharif.</i>
4	137,872	137,876	...	163,193	163,193	...	100	100	...	Rice
50,445	52,106	102,551	35,414	15,704	51,118	69	31	100	...	Jowari
5,536	3,234	8,770	11,704	3,261	14,965	78	22	100	...	Bâjri
131	87	168	149	27	176	85	15	100	...	Cotton
1,293	3,583	4,876	1,410	2,653	4,063	35	65	100	...	Other Crops
57,409	196,832	254,241	48,677	184,838	233,515	21	79	100	61	Total.

TABLE

Canals, Districts and Crops.		1905-1906.			1906-1907.			1907-1908.			
		Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.	
		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Western Nara— contd.	<i>Rabi.</i>										
	Wheat ...	10,825	58,177	69,002	14,612	54,952	69,564	12,340	33,400	45,749	
	Barley ...	316	1,786	2,102	229	2,222	2,451	218	1,222	1,440	
	Oil-seeds ...	2,553	40,131	42,684	3,046	41,818	44,864	5,055	38,894	43,949	
	Other Crops..	951	50,575	51,526	705	59,410	60,115	594	47,899	48,493	
	Total ...	15,045	150,969	166,014	18,592	158,402	176,994	18,216	121,415	139,631	
	Grand Total.	62,986	365,209	428,195	69,342	350,413	419,755	69,679	282,471	352,150	
Karachi Canals.	<i>Kharij.</i>										
	Rice ...	2	174,671	174,673	82	193,321	193,403	123	166,619	166,747	
	Jowari ...	673	1,112	1,785	822	251	1,073	641	20	661	
	Bajri ...	20,029	2,712	22,741	20,325	3,126	23,451	20,683	2,262	22,945	
	Cotton ...	104	15	119	101	9	110	34	...	34	
	Other Crops..	1,881	3,509	5,390	2,197	1,898	4,095	2,431	3,194	5,625	
		Total ...	22,689	182,019	204,708	23,527	198,605	222,132	23,917	172,095	196,012
	<i>Rabi.</i>										
	Wheat ...	10	176	186	7	560	567	...	167	167	
	Barley ...	75	4,005	4,080	5	14,307	14,312	...	6,480	6,480	
Oil-seeds ...	214	5,410	5,624	110	11,656	11,766	150	3,355	3,505		
Other Crops..	572	13,869	14,441	688	12,054	12,742	443	9,358	9,781		
	Total ...	871	23,460	24,331	810	38,577	39,387	593	19,340	19,933	
	Grand Total.	23,560	205,479	229,039	24,337	237,182	261,519	24,510	191,435	215,945	
Indus Right Bank Division.	<i>Kharij.</i>										
	Rice ...	19	653,321	653,340	90	740,017	740,107	278	603,126	603,404	
	Jowari ...	138,148	378,658	516,806	123,725	292,280	416,005	119,611	244,628	364,239	
	Bajri ...	40,911	86,189	127,100	43,159	93,736	136,895	44,127	75,269	119,396	
	Cotton ...	809	2,799	3,608	611	3,669	4,480	374	1,535	1,909	
	Other Crops..	6,962	89,771	96,733	5,985	63,048	69,033	8,863	62,937	71,860	
		Total ...	186,849	1,210,738	1,397,687	173,570	1,192,950	1,366,520	173,253	987,555	1,160,808
	<i>Rabi.</i>										
	Wheat ...	13,092	207,228	220,320	17,098	211,972	229,070	14,533	141,823	156,376	
	Barley ...	425	6,225	6,650	244	17,067	17,311	281	3,068	3,349	
Oil-seeds ...	6,054	138,217	144,271	6,091	157,920	164,911	6,872	134,954	141,826		
Other Crops..	1,800	314,878	316,678	1,625	368,843	370,468	1,304	273,422	274,726		
	Total ...	21,371	666,548	687,919	25,958	755,802	781,760	23,010	558,267	581,277	
	Grand Total.	208,220	1,877,286	2,085,506	199,528	1,948,752	2,148,280	196,263	1,545,822	1,742,085	
Eastern Nara...	<i>Kharij.</i>										
	Rice ...	...	132,490	132,490	...	135,582	135,582	...	117,619	117,619
	Jowari ...	3,328	851	4,179	1,632	753	2,285	651	472	1,123	
	Bajri ...	23,107	23,232	52,389	36,307	17,530	53,837	24,431	9,452	33,883	
	Cotton ...	22,468	27,340	49,808	12,211	13,400	25,611	9,149	9,234	18,433	
	Other Crops..	2,286	844	3,130	2,357	717	3,074	1,482	619	2,101	
		Total ...	57,189	184,807	241,996	52,407	167,982	220,389	35,713	137,446	173,159
	<i>Rabi.</i>										
	Wheat ...	8,681	51,996	60,677	6,572	65,404	71,976	906	21,061	21,967	
	Barley ...	70	302	372	70	744	814	29	298	327	
Oil-seeds ...	2,569	14,654	17,227	2,718	63,368	66,086	257	4,621	4,878		
Other Crops..	867	18,845	19,712	3,369	33,706	37,075	455	16,204	16,659		
	Total ...	12,187	85,801	97,988	12,729	163,222	175,951	1,647	42,184	43,831	
	Grand Total.	69,376	270,608	339,984	65,136	331,204	396,340	37,360	179,630	216,990	

VIII—continued.

1908-1909.			1909-1910.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Crps.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Rabi.										
16,220	45,049	61,269	6,555	36,161	42,716	15	85	100	...	Wheat... ..
227	2,258	2,535	217	1,035	1,252	17	83	100	...	Barley... ..
4,935	43,629	48,564	2,049	35,120	37,214	6	94	100	...	Oil-seeds ...
774	57,228	58,002	1,325	69,377	70,702	2	95	100	...	Other Crops ...
22,206	148,164	170,370	10,191	141,693	151,884	7	93	100	39	Total.
79,615	344,996	424,611	58,868	326,531	385,399	15	85	100	100	Grand Total.
Kharif.										
24	170,092	170,116	273	186,331	186,604	...	100	100	...	Rice
370	868	1,238	724	301	1,025	71	29	100	...	Jowari... ..
29,199	6,504	35,703	21,179	5,257	26,436	80	20	100	...	Bajri
11	...	11	2	...	2	100	...	100	...	Cotton... ..
3,135	3,246	6,381	2,206	3,498	5,704	39	61	100	...	Other Crops ...
32,739	180,710	213,449	24,384	195,387	219,771	11	89	100	85	Total.
Rabi.										
...	445	445	...	169	169	...	100	100	...	Wheat... ..
...	26,842	26,842	38	12,756	12,789	...	100	100	...	Barley
...	16,053	16,053	...	7,899	7,899	...	100	100	...	Oil-seeds ...
721	15,253	15,974	257	15,112	15,669	2	98	100	...	Other Crops ...
721	58,598	59,314	290	86,236	86,526	1	99	100	15	Total.
33,460	239,303	272,763	24,674	231,623	256,297	10	90	100	100	Grand Total.
Kharif.										
28	604,780	604,808	281	722,842	723,123	...	100	100	...	Rice
143,019	377,098	520,117	122,894	212,040	334,934	37	63	100	...	Jowari... ..
49,238	78,802	128,040	50,810	68,405	119,245	43	57	100	...	Bajri
254	751	1,005	240	602	842	29	71	100	...	Cotton... ..
9,731	72,389	82,120	7,828	55,406	63,234	12	88	100	...	Other Crops ...
202,270	1,133,820	1,336,090	182,083	1,059,295	1,241,378	15	85	100	64	Total
Rabi.										
19,069	223,551	242,620	9,008	133,147	192,155	5	95	100	...	Wheat... ..
304	29,533	29,837	273	11,314	14,587	2	98	100	...	Barley... ..
13,776	208,161	221,937	6,247	117,935	124,182	5	95	100	...	Oil-seeds ...
1,925	332,141	334,066	2,003	368,372	370,375	1	99	100	...	Other Crops ...
35,074	793,436	828,510	17,531	683,768	701,299	2	98	100	36	Total.
237,344	1,927,256	2,164,600	199,614	1,743,063	1,942,677	10	90	100	100	Grand Total.
Kharif.										
...	109,851	109,851	1	113,002	113,003	...	100	100	...	Rice
894	1,218	2,112	235	150	385	61	39	100	...	Jowari... ..
31,785	17,765	49,550	24,563	9,707	34,270	72	28	100	...	Bajri
9,965	16,115	26,080	5,618	14,925	20,543	27	73	100	...	Cotton... ..
2,110	1,181	3,291	1,389	336	1,725	81	19	100	...	Other Crops ...
44,754	146,130	190,884	31,806	138,120	169,926	19	81	100	77	Total.
Rabi.										
1,160	29,182	30,372	2,082	29,986	32,068	6	94	100	...	Wheat... ..
54	276	330	36	270	306	12	88	100	...	Barley... ..
533	35,766	36,349	446	7,137	7,583	6	94	100	...	Oil-seeds ...
838	27,522	28,360	474	9,090	9,564	5	95	100	...	Other Crops ...
2,635	93,376	96,011	3,038	46,483	49,521	6	94	100	23	Total.
47,389	239,506	286,895	34,844	184,603	219,447	16	84	100	100	Grand Total.

Western Nara-
cont'd.

Karachi Canals.

Indus Right
Bank Division.

Eastern Nara.

TABLE

Canals, Districts and Crops.		1905-1906.			1906-1907.			1907-1908.		
		Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Northern Hyderabad Canals.	<i>Kharij.</i>									
	Rice ...	11	6,574	6,585	16	11,256	11,272	...	7,299	7,299
	Jowari ...	69,569	42,956	112,525	69,589	55,515	125,104	55,819	25,818	81,137
	Bajri ...	43,228	34,280	77,508	45,771	34,861	80,632	58,413	36,716	95,129
	Cotton ...	2,774	15,932	18,706	2,905	43,418	26,323	2,790	29,282	32,072
	Other Crops ...	5,834	10,518	16,352	4,692	8,215	12,907	3,579	6,963	10,542
	Total ...	121,416	110,260	231,676	122,973	133,265	256,238	120,101	106,078	226,179
	<i>Rabi.</i>									
	Wheat ...	1,062	15,831	16,893	1,012	20,014	21,026	426	7,246	7,672
	Barley ...	22	517	539	20	1,201	1,221	14	1,233	1,247
Oil-seeds ...	44	23,242	23,286	134	57,824	57,958	51	17,999	18,050	
Other Crops ...	59	2,713	2,772	129	4,056	4,185	45	2,873	2,918	
Total ...	1,187	42,303	43,490	1,295	83,095	84,390	536	29,351	29,887	
Grand Total.	122,603	152,563	275,166	124,268	216,360	340,628	120,637	135,429	256,066	
Central Hyderabad Canals.	<i>Kharij.</i>									
	Rice ...	...	2,882	2,882	...	4,806	4,806	...	3,269	3,269
	Jowari ...	9,234	1,256	10,490	9,252	1,921	11,173	5,985	686	6,621
	Bajri ...	134,606	17,383	151,989	137,029	24,156	161,085	142,145	13,305	155,450
	Cotton ...	53,966	7,845	61,811	47,305	12,416	59,721	57,762	9,256	67,018
	Other Crops ...	8,211	805	9,016	7,700	1,157	8,857	6,282	423	6,705
	Total ...	206,017	30,171	236,188	201,286	44,356	245,642	212,172	26,889	239,063
	<i>Rabi.</i>									
	Wheat ...	960	2,533	3,493	840	4,712	5,552	210	1,097	1,307
	Barley ...	5	8	13	4	13	17	1	2	3
Oil-seeds ...	1,199	3,069	4,268	3,058	14,082	17,140	151	1,252	1,403	
Other Crops ...	678	3,434	4,112	473	4,981	5,454	566	3,332	3,948	
Total ...	2,842	9,044	11,886	4,375	23,788	28,163	928	5,733	6,661	
Grand Total.	208,859	39,250	248,074	205,661	68,144	273,805	213,102	32,622	245,724	
Faleli Canals ...	<i>Kharij.</i>									
	Rice ...	25	209,662	209,687	13	227,993	228,006	13	181,095	181,108
	Jowari ...	3,448	1,909	5,357	2,732	1,825	4,567	1,747	500	2,247
	Bajri ...	90,024	21,307	111,331	96,207	14,862	111,069	92,839	22,164	115,003
	Cotton ...	20,767	6,079	26,846	20,167	4,794	24,961	21,873	1,532	23,405
	Other Crops ...	6,785	2,725	9,510	7,461	3,099	10,560	5,040	1,930	6,970
	Total ...	121,049	241,682	362,731	126,580	252,573	379,153	121,512	207,221	328,733
	<i>Rabi.</i>									
	Wheat ...	3,417	23,783	27,200	3,399	22,607	26,006	1,594	7,162	8,756
	Barley ...	30	2,183	2,213	336	3,117	3,453	154	1,904	2,058
Oil-seeds ...	589	28,887	29,476	702	44,744	45,446	699	25,780	26,479	
Other Crops ...	379	15,165	15,544	243	13,177	13,420	3,732	10,735	14,467	
Total ...	4,415	70,018	74,433	4,680	83,645	88,325	6,179	45,581	51,760	
Grand Total.	125,464	311,700	437,164	131,260	336,218	467,478	127,691	252,802	380,493	

VIII—continued.

1908-1909.			1909-1910.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Crops.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
...	8,825	8,825	...	15,090	15,090	...	100	100	...	<i>Kharif.</i>
70,084	61,856	131,940	65,834	85,743	101,577	65	35	100	...	Rice ...
44,904	29,691	74,595	59,090	30,089	89,179	66	34	100	...	Jowari ...
6,354	23,227	28,581	6,973	11,241	18,214	38	62	100	...	Bajri ...
4,365	8,725	13,090	5,502	9,906	15,408	36	64	100	...	Cotton ...
									...	Other Crops ...
124,707	132,324	257,031	137,399	102,069	239,468	57	43	100	83	Total.
										<i>Rabi.</i>
1,349	17,417	18,766	855	14,761	15,616	5	95	100	...	Wheat ...
59	877	936	97	753	850	11	89	100	...	Barley ...
50	59,928	59,978	88	30,427	30,515	...	100	100	...	Oil-seeds ...
86	3,718	3,804	155	2,991	3,146	5	95	100	...	Other Crops ...
1,544	81,940	83,484	1,195	48,932	50,127	2	98	100	17	Total.
126,251	214,264	340,515	138,594	151,001	289,595	48	52	100	100	Grand Total.
										<i>Kharif.</i>
...	1,292	1,292	...	3,935	3,965	...	100	100	...	Rice ...
7,390	1,173	8,563	5,511	807	6,318	87	13	100	...	Jowari ...
144,512	29,950	174,462	140,072	14,825	154,897	90	10	100	...	Bajri ...
54,036	9,307	63,843	56,454	8,789	65,243	87	13	100	...	Cotton ...
5,779	1,308	7,087	8,496	643	9,142	93	7	100	...	Other Crops ...
211,717	43,530	255,247	210,533	29,032	239,565	88	12	100	93	Total.
										<i>Rabi.</i>
359	3,943	4,302	607	4,084	4,691	13	87	100	...	Wheat ...
...	3	3	2	9	11	18	82	100	...	Barley ...
552	15,348	15,900	521	7,145	7,666	7	93	100	...	Oil-seeds ...
532	5,732	6,264	168	6,772	6,940	2	98	100	...	Other Crops ...
1,443	25,026	26,469	1,298	18,010	19,308	7	93	100	7	Total.
213,160	68,556	281,716	211,831	47,042	258,873	82	18	100	100	Grand Total.
										<i>Kharif.</i>
7	203,701	203,708	...	234,108	234,108	...	100	100	...	Rice ...
2,076	1,010	3,086	1,930	501	501	79	21	100	...	Jowari ...
108,734	23,571	129,305	88,689	8,189	96,878	92	8	100	...	Bajri ...
19,249	2,591	21,840	17,153	1,204	18,357	93	7	100	...	Cotton ...
6,422	2,348	8,970	6,197	2,149	8,346	74	26	100	...	Other Crops ...
136,488	230,421	366,909	113,969	246,151	360,120	32	63	100	87	Total.
										<i>Rabi.</i>
782	8,387	9,169	1,971	12,392	14,363	14	86	100	...	Wheat ...
75	1,859	1,934	96	2,647	2,743	4	96	100	...	Barley ...
1,041	23,144	29,189	552	19,445	19,997	3	97	100	...	Oil-seeds ...
2,176	11,728	13,904	1,934	14,406	16,340	12	83	100	...	Other Crops ...
4,074	50,122	54,196	4,553	48,890	53,443	9	91	100	13	Total.
140,562	280,543	421,105	118,522	295,041	413,563	29	71	100	100	Grand Total.

TABLE

Canals, Districts and Crops.	1905-1906.			1906-1907.			1907-1908.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	[Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
<i>Khariif.</i>									
Rice ...	...	505	505	...	952	952	...	408	408
Jowári ...	1,565	1,813	3,378	1,533	3,056	4,589	1,327	2,188	3,515
Bájrí ...	25,814	26,761	52,575	20,798	32,723	53,521	20,041	26,864	46,905
Cotton ...	38,807	75,911	114,718	24,589	74,541	99,130	29,189	79,158	108,347
Other Crops ...	1,415	2,478	3,893	982	3,106	4,088	1,182	3,580	4,762
Total ...	67,601	107,468	175,069	47,902	114,378	162,280	51,739	112,198	163,937
<i>Rabi.</i>									
Wheat ...	29,030	88,709	117,739	16,586	62,274	78,860	7,011	30,860	37,871
Barley ...	261	586	847	197	611	808	112	372	484
Oil-seeds ...	651	3,364	4,015	425	3,268	3,693	511	2,895	3,406
Other Crops ...	1,430	8,320	9,750	682	4,631	5,363	815	5,414	6,229
Total ...	31,161	101,190	132,351	17,890	70,834	88,724	8,449	39,541	47,990
Grand Total.	98,762	203,658	307,420	65,792	185,212	251,004	60,188	151,739	211,927
<i>Khariif.</i>									
Rice ...	36	352,113	352,149	29	380,589	380,618	13	309,690	309,703
Jowári ...	87,144	48,785	135,929	84,638	63,070	147,708	65,029	29,614	94,643
Bájrí ...	322,779	123,013	445,792	336,112	124,032	460,144	337,869	108,501	446,370
Cotton ...	138,782	133,107	271,889	107,177	128,569	235,746	120,763	128,512	249,275
Other Crops ...	24,531	17,370	41,901	23,192	16,294	39,486	17,565	13,515	31,080
Total ...	673,272	674,388	1,247,660	551,148	712,554	1,263,702	541,239	589,832	1,131,071
<i>Rabi.</i>									
Wheat ...	43,150	182,352	226,002	28,409	175,011	203,420	10,147	67,426	77,573
Barley ...	388	3,596	3,984	627	5,638	6,313	310	3,809	4,119
Oil-seeds ...	5,052	73,220	78,272	7,037	183,236	190,323	1,669	52,547	54,216
Other Crops ...	3,202	48,688	51,890	4,896	60,601	65,497	5,613	38,608	44,221
Total ...	51,792	308,356	360,148	40,969	424,584	465,553	17,739	162,390	180,129
Grand Total.	625,064	982,744	1,607,808	592,117	1,137,138	1,729,255	558,978	752,222	1,311,200
<i>Khariif.</i>									
Rice ...	55	1,005,434	1,005,489	119	1,120,606	1,120,725	291	912,816	913,107
Jowári ...	225,292	427,443	652,735	208,363	355,350	563,713	184,640	274,242	458,882
Bájrí ...	363,690	209,202	572,892	379,271	217,768	597,039	381,996	183,770	565,766
Cotton ...	139,591	135,906	275,497	107,788	132,438	240,226	121,137	130,047	251,184
Other Crops ...	31,493	107,141	138,634	29,177	79,342	108,519	26,428	76,512	102,940
Total ...	760,121	1,885,126	2,645,247	724,718	1,905,504	2,630,222	714,492	1,577,387	2,291,879
<i>Rabi.</i>									
Wheat ...	56,242	390,080	446,322	45,507	386,933	432,490	24,700	209,249	233,949
Barley ...	813	9,321	10,634	871	22,753	23,624	591	11,877	12,468
Oil-seeds ...	11,106	211,437	222,543	14,028	341,206	355,234	8,541	187,501	196,042
Other Crops ...	5,002	363,566	368,568	6,521	429,444	435,965	6,917	312,030	318,947
Total ...	73,163	974,904	1,048,067	66,927	1,180,386	1,247,313	40,749	720,657	761,406
Grand Total.	833,284	2,860,030	3,693,314	791,645	3,085,890	3,877,535	755,241	2,298,044	3,053,285

VIII—concluded.

1908-1909.			1909-1910.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Cr ps.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
...	499	499	8	965	965	...	100	100	...	<i>Kharif.</i>
2,328	3,460	5,788	974	2,223	3,197	30	70	100	...	Rice ...
26,522	35,899	62,421	19,742	28,490	48,232	41	59	100	...	Jowári ...
31,593	80,713	112,251	24,721	50,103	74,824	33	67	100	...	Bajri ...
1,529	5,110	6,639	1,345	5,143	6,488	21	79	100	...	Cotton ...
									...	Other Crops ...
61,912	125,686	187,598	46,784	86,923	133,713	35	65	100	74	Total.
										<i>Rabi.</i>
2,270	10,877	13,147	4,646	27,806	32,452	14	86	100	...	Wheat ...
59	89	148	42	208	250	17	83	100	...	Barley ...
712	3,654	4,366	608	4,890	5,498	11	89	100	...	Oil-seeds ...
765	1,911	2,676	1,099	6,925	8,024	14	86	100	...	Other Crops ...
3,806	16,531	20,337	6,395	39,829	46,224	14	86	100	26	Total.
65,718	142,217	207,935	53,179	126,758	179,937	30	70	100	100	Grand Total.
										<i>Kharif.</i>
7	324,168	324,175	4	367,130	367,134	...	100	100	...	Rice ...
82,772	68,717	151,489	74,484	39,424	113,908	65	35	100	...	Jowári ...
356,457	133,876	490,333	332,156	91,300	423,456	78	22	100	...	Bajri ...
120,137	132,458	252,595	110,918	86,267	197,185	58	44	100	...	Cotton ...
20,205	18,872	39,077	22,929	18,180	41,109	56	44	100	...	Other Crops ...
579,578	678,091	1,257,669	540,491	602,301	1,142,792	47	53	100	84	Total.
										<i>Rabi.</i>
5,920	70,436	76,356	10,161	89,029	99,190	10	90	100	...	Wheat ...
247	3,104	3,351	273	3,887	4,160	7	93	100	...	Barley ...
2,938	142,844	145,782	2,216	69,044	71,259	3	97	100	...	Oil-seeds ...
4,397	50,611	55,008	3,830	40,184	44,014	9	91	100	...	Other Crops ...
13,502	266,995	280,497	16,479	202,144	218,623	8	92	100	16	Total.
593,080	945,086	1,538,166	556,970	804,445	1,361,415	41	59	100	100	Grand Total.
										<i>Kharif.</i>
35	928,943	928,983	285	1,080,972	1,080,257	...	100	100	...	Rice ...
225,791	445,815	671,606	197,378	251,464	448,842	44	56	100	...	Jowári ...
405,695	212,678	618,373	382,996	159,705	542,701	71	29	100	...	Bajri ...
120,391	133,209	253,600	111,158	86,869	198,027	56	44	100	...	Cotton ...
29,936	91,261	121,197	30,757	73,686	104,343	29	71	100	...	Other Crops ...
781,848	1,611,911	2,593,759	722,574	1,661,596	2,384,170	30	70	100	72	Total.
										<i>Rabi.</i>
24,989	293,987	318,976	19,169	272,176	291,345	7	93	100	...	Wheat ...
551	32,687	33,238	546	18,201	18,747	3	97	100	...	Barley ...
16,714	351,005	367,719	8,462	186,979	195,441	4	96	100	...	Oil-seeds ...
6,322	382,752	389,074	5,833	408,556	414,389	1	99	100	...	Other Crops ...
48,576	1,060,431	1,109,007	34,010	885,912	919,922	4	96	100	28	Total.
830,424	2,372,342	3,702,766	756,584	2,547,508	3,304,092	23	77	100	100	Grand Total.

TABLE IX.

Rainfall in the Province of Sind for 1909-1910.

Collect rates and Districts.		April 1909.	May.	June.	July.	August.	September.	October.	November.	December.	January 1910.	February.	March.	Total 1909-1910.	Total 1908-1909.			
		In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.			
Indus Right Bank Division.																		
UPPER SIND FAC- TORY.	Begri Canals ...	Káshmor ...	0 6	...	0 66	2 30	...	...	...	0 12	0 50	...	...	3 04	4 75	
		Kandkot ...	0 25	...	0 23	2 7	...	0 34	...	...	0 5	0 52	...	...	3 46	5 85
		Jacobabad ...	0 36	...	0 1	0 7	0 45	...	...	...	0 8	1 13	...	...	2 10	3 83
		Thul ...	0 7	...	0 13	0 33	...	0 3	...	...	0 3	0 65	...	...	1 24	2 12
		Sháhdádpur ...	0 3	...	...	1 9	...	...	...	...	0 35	0 60	...	...	2 7	2 46
Average ...		...	...	...	...	...	...	...	...	...	...	...	...	2 5	3 81	
														Mean average of 10 years ...		3	29	
SUKKUR COL- LECTOR- ATE.	Shikarpur Canals.	Chauro ...	0 14	...	0 40	1 8	...	...	...	0 24	0 18	...	...	2 4	5 77	
		Mirpur Máthelo ...	0 11	...	1 40	0 91	...	...	...	...	0 16	0 37	...	...	2 95	3 88
		Ghotki ...	0 23	...	0 6	1 60	...	...	...	...	0 10	0 82	...	...	2 81	1 85
		Rohri ...	0 13	...	0 13	1 31	...	...	...	...	0 20	0 80	...	...	2 57	1 85
		Sukkur ...	0 22	...	0 5	0 57	...	...	...	...	0 18	1 0	...	...	2 32	1 97
Shikarpur ...	0 8	...	0 20	0 37	...	...	...	...	0 3	1 0	...	...	1 68	3 55		
Garhi Yásin ...	...	...	0 7	0 62	...	...	...	...	0 4	0 98	...	...	1 71	3 85		
Average ...		...	...	...	...	...	...	...	...	...	...	...	...	2 30	3 25	
														Mean average of 10 years ...		3	13	
LAHORE COLLECTORATE.	Ghar Canals ...	Ratodero ...	0 7	...	...	0 10	0 5	...	...	0 12	1 3	...	...	1 37	3 6	
		Larkána ...	0 9	...	...	0 26	...	...	...	...	0 5	0 95	...	...	1 35	1 92
		Kambar ...	0 6	...	...	0 19	...	...	...	...	0 13	0 68	...	...	1 6	1 36
		Bakráni ...	0 2	...	...	0 31	...	...	...	...	0 14	0 75	...	...	1 22	0 89
		Wárrah ...	0 18	0 4	...	0 18	...	...	...	...	0 19	0 70	...	...	1 29	1 28
Average ...		...	...	...	...	...	...	...	...	...	...	...	...	1 26	1 66	
														Mean average of 10 years ...		3	03	
WESTERN NARA...	Western Nára ...	Mehar ...	0 6	...	...	1 17	...	0 20	...	0 15	0 78	...	...	2 36	2 71	
		Khairpur Náthesháh ...	0 16	0 9	0 19	1 17	...	0 17	...	...	0 25	0 64	...	...	2 67	2 62
		Dádu ...	...	0 1	0 5	1 46	...	...	...	...	0 34	0 70	...	...	2 66	1 82
		Johi ...	0 3	...	...	0 87	...	1 25	...	...	0 35	0 73	...	...	3 22	3 21
		Sehwan ...	0 50	...	0 17	4 43	...	0 47	...	...	0 51	2 1	...	...	8 9	6 88
Mánjhand ...	0 22	...	...	0 60	...	0 12	...	...	0 10	0 34	...	...	1 33	10 59		
Kotri ...	...	...	...	4 87	0 13	0 42	...	...	0 2	0 13	...	...	5 57	22 88		
Average ...		...	...	...	...	...	...	...	...	...	...	...	...	3 69	7 24	
														Mean average of 10 years ...		4	28	
KARACHI COLLECTORATE.	Karachi Canals ...	Bulakhan's Thana ...	0 50	...	...	0 98	1 49	0 39	...	0 30	0 15	...	...	3 89	22 24	
		Jerruck ...	0 3	...	...	6 79	0 2	0 10	...	...	0 1	...	...	...	6 95	21 7
		Tatta ...	...	...	...	5 18	0 26	0 75	...	...	0 5	0 27	...	...	6 51	24 70
		Sádro ...	0 50	...	...	5 94	0 92	0 2	...	...	0 20	0 43	...	...	8 1	14 47
		Kotri Ghorábári ...	...	...	...	4 49	0 28	...	...	...	0 13	0 20	...	...	5 10	18 63
		Mirpur Bathoro ...	0 1	...	...	5 21	0 93	0 68	...	...	...	0 31	...	...	7 14	19 14
		Sujáwal ...	...	0 15	...	4 94	0 45	...	...	...	...	0 50	...	...	6 4	12 67
		Moghulbin ...	...	...	...	6 98	1 32	0 5	...	...	...	0 13	...	...	8 48	18 88
		Sháhbandar ...	...	...	...	5 45	0 73	0 53	...	...	0 20	0 25	...	...	7 16	25 91
		Keti Bandar ...	...	...	...	7 23	0 23	0 80	...	...	0 41	0 30	...	...	0 7	14 4
Karachi ...	...	...	...	3 29	0 36	...	...	...	0 76	0 43	...	...	4 84	7 10		
Average ...		...	...	...	...	...	...	...	...	...	...	...	...	6 65	18 9	
														Mean average of 10 years ...		7	49	
Average for Indus Right Bank Division ...														3	19	6	81	
Indus Left Bank Division.																		
THAR AND PAUNJAR COLLECTORATE.	Eastern Nára and Jamrao Canal Districts.	Umarkot ...	0 20	0 2	0 15	8 28	0 40	1 32	...	0 13	...	...	...	10 43	14 39	
		Khípra ...	0 30	...	0 25	4 90	1 31	0 79	...	...	...	...	0 48	...	8 3	17 17
		Mirpur Khás ...	0 12	...	0 90	7 16	0 93	1 49	...	...	0 2	...	...	...	10 32	19 84
		Sanghar ...	0 27	...	1 40	2 6	1 10	0 90	...	...	0 10	0 4	...	...	5 87	9 83
Average ...		...	...	...	...	...	...	...	...	...	...	...	...	8 75	15 33	
														Mean average of 10 years ...		6	69	
HYDERABAD COLLECTORATE.	Northern Hy- derabad Canals District.	Kandíáro ...	0 36	...	1 5	0 94	...	...	...	0 22	0 95	...	...	3 54	2 86	
		Nausahro ...	0 7	...	0 21	2 98	0 7	...	...	...	0 32	0 79	...	...	4 44	2 5
		Thárusáh ...	0 17	...	0 22	3 0	...	...	...	...	0 23	0 97	...	...	4 59	2 21
		Moro ...	0 14	0 22	...	2 83	0 3	0 8	...	...	0 44	0 78	...	...	4 22	4 33
		Average	4 27	2 86	
															Mean average of 10 years ...		3	85
	Central Hy- derabad District.	Sákrand ...	Hála ...	0 60	...	0 5	4 60	0 5	0 23	...	0 17	0 36	...	...	6 6	4 90
			Sháhdádpur ...	0 90	0 2	0 9	5 5	2 14	0 33	0 23	0 5	7 91	9 85	
			Tando Adam ...	0 6	...	0 18	2 45	1 57	0 96	0 11	0 6	6 23	9 23	
			Tando Alahyar	0 10	2 51	0 58	1 14	0 4	0 3	4 76	9 49	
Average ...			...	...	...	...	...	...	...	...	...	...	...	...	6 2	11 57
														Mean average of 10 years ...		5	87	
FULET District.	Hyderabad Dero Mohbat Tando Bágó Badin Tando Múhammad Khásh	Hyderabad ...	...	...	5 71	0 63	0 17	...	...	...	0 7	...	...	6 59	19 21	
		Dero Mohbat ...	0 13	...	0 4	6 87	1 5	0 23	...	...	0 4	0 22	...	...	7 55	18 65
		Tando Bágó ...	...	...	1 40	8 71	0 37	2 91	...	...	0 3	0 4	...	...	13 46	16 61
		Badin ...	0 60	...	0 53	7 43	0 41	3 10	...	...	...	0 8	...	...	12 20	20 81
		Average	5 7	19 7	
														Mean average of 10 years ...		8	98	
Average for Indus Left Bank Division ...														7	0	12	11	
														Mean average of 10 years ...		6	23	

Memorandum showing the amounts of loss to Canals on account of difference between the assessments of water-rates on Jágíir Lands and assessments at the ordinary rates in force for Government Lands.

Works.	To end of 1908-1909.	During 1909-1910.	To end of 1909-1910	Remarks.
MAJOR WORKS.				
<i>Productive Works.</i>				
Desert Canal	11,88,430	87,259	12,75,689	
Unharwáh	11,166	887	12,053	
Begári Canal	16,06,081	77,135	16,83,216	
Mahiwáh	39,765	7,664	47,429	
Eastern Nára Works	4,21,391	17,980	4,39,371	
Jámráo Canal	1,05,070	8,282	1,13,352	
Dád Canal	1,51,465	21,145	1,72,610	
Nasrat Canal	11,761	1,256	13,017	
Total	35,35,129	2,21,608	37,56,737	
MINOR WORKS AND NAVIGATION.				
<i>Works for which Capital and Revenue Accounts are kept.</i>				
Sukkur Canal	1,67,000	10,993	1,77,993	
Ghár Canal	8,16,495	35,801	8,52,296	
Sattah Canal	1,490	438	1,928	
Alibhar-Kacheri Canal	85,630	2,621	88,251	
Márák Great Canal	4,82,282	14,824	4,97,106	
Sarfrazwáh	2,76,574	12,315	2,88,889	
Fuleli Canal	41,63,729	1,22,045	42,85,774	
Hassanali Canal	5,901	1,927	7,828	
Total	59,99,101	2,00,964	62,00,065	
<i>Works for which only Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	61,631	...	
Western Nára District ... ..	...	46,303	...	
Karáchi Canals District ... ..	...	15,766	...	
Northern Hyderabad Canals District ... ..	...	13,006	...	
Central do. do. ... ..	...	52,143	...	
Fuleli Canals District ... ..	...	4,014	...	
Total ... ..	...	1,92,893	...	
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	14,045	...	
Ghár Canals District ... ..	...	441	...	
Karáchi Canals District ... ..	...	838	...	
Total ... ..	...	15,324	...	
GRAND TOTAL ... ..	...	...	...

V. C. FRENCH,

Deputy Accountant General, Public Works.

STATISTICAL STATEMENTS

FOR

IRRIGATION WORKS, SIND.

FOR THE YEAR 1909-1910.

STATEMENT

Statement of Canals in the Indus

1	MAJOR WORKS.			
	Begari Canals District.			
	Desert Canal.	Unharwah.	Begari Canal.	Total.
2	3	4	5	
		Wahur Dhand <i>ex</i> River Indus.	Wadhu Dhand <i>ex</i> River Indus.	
Source of supply of water	River Indus.	Wahur Dhand <i>ex</i> River Indus.	Wadhu Dhand <i>ex</i> River Indus.	
Maximum discharge of water, c. ft. per second.	...	...	...	...
Minimum discharge of Canal ,,	4,283	2,716	6,549	...
Average annual rainfall ... ..Inches.	2.61	2.35	2.22	...
Gross area commanded ... ..Acres.	388,985	246,970	751,680	1,387,635
Culturable area commanded	388,985	214,056	680,521	1,283,562
Area irrigable by complete project	129,660	56,000	186,500	372,160
Area irrigable at present	129,660	56,000	186,500	372,160
<i>Sanctioned Estimate.</i>				
Direct charges Rs.	26,22,235	6,90,284	21,54,480	54,66,999
Indirect charges "	79,021	18,848	91,120	1,88,989
Interest during construction... .. "	19,46,527	5,06,126	23,94,681	48,47,334
Total Estimate ...	46,47,783	12,15,258	46,40,281	1,05,03,322
<i>Expenditure to end of 1909-1910.</i>				
Direct charges Rs.	26,22,235	6,90,284	21,38,331	54,50,850
Indirect charges "	79,021	18,848	61,102	1,58,971
Interest during construction... .. "	19,46,527	5,06,126	23,94,681	48,47,334
Total Expenditure ...	46,47,783	12,15,258	45,94,114	1,04,57,155
<i>Works as now sanctioned.</i>				
Main Canals Irrigation Miles.	75	36	76	187
Branch Canals "	197	78	118	393
Distributaries "	58	4	...	62
Of the above—				
Navigable Canals Miles.	4	...	58	62
<i>Works completed at end of 1909-1910.</i>				
Main Canals Irrigation Miles.	75	36	76	187
Branch Canals "	197	78	118	393
Distributaries "	58	4	...	62
Of the above—				
Navigable Canals Miles.	4	...	58	62

I-A.

Right Bank Division for 1909-1910.

Shikárpur Canals Dis- trict.	MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.			MINOR WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.		
	Ghár Canals District.		Karáchi Canals District.	Shikárpur Canals District.	Western Nára District.	Karáchi Canals District.
Mahiwah.	Sukkur Canal.	Ghár Canal.	Sattah Canal.	Other Canals.	Other Canals.	Other Canals.
6	7	8	9	10	11	12
Gudn Dhand <i>ex</i> River Indus.	River Indus.	River Indus.	River Indus.	Dhands <i>ex</i> River Indus.	Dhands <i>ex</i> River Indus.	River Indus.
...
3,553	2,618	6,806	646	...	...	.....
2.40	2.42	1.79	8.07	2.40	4.3	7.0
200,251	246,713	505,649	61,102	477,924	990,586	6,158,771
120,594	162,118	395,944	23,757	401,764	715,718	1,799,083
65,950	90,000	250,000	23,757	244,995	405,311	1,295,923
65,950	90,000	250,000	16,764	244,995	397,636	239,533
9,36,837	13,64,754	5,41,696	1,73,972	...	...	.....
1,29,503	61,496	30,690	6,028	...	...	.....
3,60,883	.....	...	.....	...	...	.....
14,27,223	14,26,250	5,72,386	1,80,000	...	...	...
13,21,850	13,64,754	5,41,696	1,73,972	...	...	.....
57,302	61,496	30,690	6,028	...	...	.....
3,60,883	.....	...	.....	...	...	.....
17,40,035	14,26,250	5,72,386	1,80,000	...	...	...
29	74	67	31	191	348	454
168	56	230	6	90	316	477
87	.....	...	.....	...	9	.....
...	.....	103	6	...	261	159
29	74	67	31	191	348	454
168	56	230	6	90	316	477
87	.....	...	.....	...	9	.....
...	.....	103	6	...	261	159

STATEMENT

Statement of Canals in the Indus

	MAJOR WORKS.									
	Jámráo Canal District.	Northern Hyderabad Canals District.			Eastern Nára District.					
	Jámráo Canal.	Dád Canal.	Nasrat Canal.	Total.	Nára Supply Channel.	Eastern Nára.	Mithráo Canal.	Thar Canal.	Khipra Canal.	
1	2	3	4	5	6	7	8	9	10	
Source of Supply of water	Eastern Nára.	Indus.	Indus.		Indus.	Nára Supply Channel.	Eastern Nára.	Eastern Nára.	Eastern Nára.	
Minimum discharge of River ... C. feet per second.*	.....	31,000	31,000	...	31,000	...	...	...	...
Maximum discharge of Canal... „ „	3,385	4,635	2,989	...	...	...	2,900	1,400	...
Average annual rainfall ... „ Inches.	6'41	5'87	4'80	...	...	10'36	8'81	10'48	8'00
Gross area commanded ... „ Acres.	870,850	630,100	383,700	1,013,800	151,400	303,400	450,000	162,000	47,900	
Culturable area commanded ... „ „	776,281	336,000	319,000	655,000	25,000	275,500	400,100	144,800	45,000	
Area irrigable annually by complete project . „	300,000	145,400	104,100	249,500	23,000	90,900	143,500	50,000	8,000	
Area irrigable at present ... „ „	253,600	145,400	104,100	249,500	...	58,400	132,000	50,000	8,000	
<i>Sanctioned Estimate.</i>										
Direct charges Rs.	77,26,671	25,94,510†	19,82,348	45,76,858	...	...	...	...	...
Indirect charges „	2,47,891	99,420	76,286	1,75,706	...	...	...	...	...
Interest during construction „	3,23,559	4,22,274	2,93,639	7,15,913	...	...	...	...	...
Total, Estimate ... Rs.	82,98,121	31,16,204	23,52,273	54,68,477	...	...	...	...	...
<i>Expenditure to end of 1909-1910.</i>										
Direct charges Rs.	80,13,139	22,64,416	18,04,332	40,68,798	...	...	...	...	...
Indirect charges „	2,31,144	86,179	55,546	1,41,725	...	...	...	...	...
Interest during construction „	35,72,339	8,15,326	4,78,894	12,94,220	...	...	...	...	...
Total, Expenditure ... Rs.	1,18,16,622	31,65,921	23,38,822	55,04,743	...	...	...	...	...
<i>Works as now sanctioned.</i>										
Main Canals Irrigation Miles.	117	96	97	193	12	320	93	24	15	
Branch Canals „	63	251	95	346	...	...	50½	48	...
Distributaries „	409	44	118	162	...	...	...	...	...
Of above—										
Navigable Canals Miles.	.....	...	...	...	12	320	93	...	...
<i>Works completed at end of 1909-1910.</i>										
Main Canals Irrigation Miles.	117	95	95	190	12	320	93	24	15	
Branch Canals „	63	250	84	334	...	...	50½	48	...
Distributaries „	409	25	118	143	...	...	...	...	...
Of above—										
Navigable Canals Miles.	.....	...	...	...	12	320	93	...	...

* Note.—The minimum discharge of the River during 1909-1910 was:—
 Bukkur ... 31,000 cusecs on 26th March 1910.
 Kotri ... 32,000 cusecs on 23th March 1910.

† The decrease in the amount as compared with last year is due to omission of certain works sanctioned in the original project having been found unnecessary. This amount is now equal to expenditure to 1907 when construction estimate was closed plus the amount of schedule of incomplete works.

‡ Practically a River.

I-A—continued.

Left Bank Division for 1909-1910.

			MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.							WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.		
			Central Hyderabad Canals District.				Fuleli Canals District.			Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleli Canals District.
Heran Canal.	Hiral Canal.	Total.	Alibhar Kachheri.	Great Marak.	Surfraz.	Total.	Fuleli Canal.	Hassanali Canal.	Total.	Total.	Total.	Total.
11	12	13	14	15	16	17	18	19	20	21	22	23
Eastern Nára.	Eastern Nára.		Indus.	Indus.	Indus.		Indus.	Indus.		Indus.	Indus.	Indus.
...	...	...	81,000	81,000	31,300	...	81,000	32,000	...	81,000	81,000	31,000
...	...	...	599	1,556	1,161	...	10,000	1,000	...	...	...	...
5-87	13-57	...	6-86	6-38	6-79	...	10-42	5-07	...	5-16	5-57	5-46
11,000	46,000	1,171,700	75,500	240,000	165,000	480,500	1,703,000	114,000	1,847,000	700,000	980,000	147,800
9,000	38,300	937,700	51,900	2,38,600	139,400	429,900	1,437,500	84,000	1,521,500	313,000	800,000	95,000
3,000	15,700	334,100	14,000	65,000	35,000	114,000	400,000	30,000	430,000	111,800	175,000	35,000
3,000	20,000	271,400	14,000	65,000	35,000	114,000	400,000	30,000	430,000	111,800	175,000	35,000
...	...	65,69,846	23,020	2,10,378	1,13,559	3,56,957	21,12,600	2,71,979	23,84,579	...	...	...
...	...	2,27,045	887	8,417	6,121	15,425	68,360	16,922	85,242	...	...	...
...	...	...	...	...	...	...	...	8,834	8,834	...	...	...
...	...	67,86,891	28,907	2,18,795	1,24,680	3,72,382	21,80,060	2,07,735	24,78,695	...	...	...
...	...	65,48,368	23,207	2,07,438	1,18,559	3,40,202	10,18,446	2,31,400	21,94,446	...	...	...
...	...	2,28,671	710	8,310	6,121	15,141	71,215	13,445	84,660	...	...	...
...	...	88,37,456	...	...	...	...	...	...	...	...	...	...
...	...	1,51,14,495	23,917	2,15,746	1,24,680	3,64,343	19,84,661	2,04,845	22,79,506	...	...	...
3	19	486	25	24	80	129	98	35	133	117	148	62
...	22	120½	33	149	31	213	889	46	935	149	441	76
...	...	...	...	...	...	...	35	19	54	...	...	...
...	...	425	22	22	30	74	326	40	366	...	105	10
3	19	486	25	24	80	129	98	35	133	117	148	62
...	22	120½	33	149	31	213	889	46	935	149	441	76
...	...	...	...	...	...	...	35	19	54	...	...	...
...	...	425	22	22	30	74	326	40	366	...	105	10

STATEMENT

Capital Account of Irrigation Works

Name of Work.	DURING YEAR.								
	Direct Charges.					Indirect Charges.			
	Works.	Establishment.	Tools and Plant.	Total.	Deduct Receipts on Capital Account.	Total.	Capitalization.	Leave and Pension Allowances.	Total.
1	2	3	4	5	6	7	8	9	10
MAJOR WORKS.									
PRODUCTIVE WORKS.									
1. Desert Canal ... ..	...	...	...	...	...	...	...	...	...
2. Unharwáh	7,839	1,803	...	9,642	...	9,642	...	252	252
3. Begári Canal	68,348	15,643	... } (a) 17 }	84,008	...	84,008	...	2,190	2,190
4. Mahiwáh ... ..	...	...	...	...	...	...	...	...	...
5. Eastern Nára Works	12,903	13,333	556	26,792	...	26,792	...	1,867	1,867
6. Jámráo Canal	58,403	19,642	1,281	79,326	...	79,326	...	2,750	2,750
7. Dád do.	3,671	2,480	...	6,151	...	6,151	...	347	347
8. Nasrat do.	-9,758	3,157	183	-6,418	...	-6,418	...	442	442
9. Naulákhí do. ... ..	...	...	...	...	...	...	...	...	...
Total ...	1,41,406	56,053	2,020 } 17 }	1,99,501	...	1,99,501	...	7,848	7,848
MINOR WORKS AND NAVIGATION.									
10. Sukkur Canal ... ..	...	...	...	...	...	...	...	...	...
11. Gháír do. ... ..	...	...	...	...	...	...	...	...	...
12. Sattah do.	284	...	...	284	...	284	1,574	...	1,574
13. Alibhar Kacheri Canal ... ..	...	...	...	...	...	...	...	...	...
14. Márák Great Canal ... ..	...	...	...	...	...	...	...	...	...
15. Surfrazwáh ... ..	...	...	...	...	...	...	...	...	...
16. Fuleli Canal ... ..	...	...	...	...	...	...	...	...	...
17. Hassarali Canal	3,381	777	51	4,209	...	4,209	...	109	109
Total ...	3,665	777	51	4,493	...	4,493	1,574	109	1,683
GRAND TOTAL ...	1,45,071	56,835	2,071 } 17 }	2,03,994	...	2,03,994	1,574	7,957	9,531

(a) Suspense Account.

I—B.

in Sind for and to end of 1909-1910.

TO END OF YEAR.										
Grand Total.	Direct Charges.					Indirect Charges.				Grand Total.
	Works.	Establishment.	Tools and Plant.	Total.	Deduct Receipts on Capital Account.	Total.	Capitalization.	Leave and Pension Allowances.	Total.	
11	12	13	14	15	16	17	18	19	20	21
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...	21,16,722	4,79,840	25,710	26,22,272	37	26,22,235	2,121	76,900	79,021	27,01,256
9,894	5,67,139	1,20,680	2,465	6,90,284	...	6,90,284	1,953	16,895	18,848	7,09,132
86,198	18,11,335	3,20,432	6,533	21,38,350	19	21,38,331	5,195	55,907	61,102	21,99,433
...	10,79,118	2,33,238	9,500	13,21,856	6	13,21,850	24,649	32,653	57,302	13,79,152
28,659	51,79,680	13,00,347	68,517	65,48,544	176	65,48,368	2,669	2,26,002	2,28,671	67,77,039
82,076	64,71,275	18,68,084	1,70,155 (a) 4,606	80,14,120	981	80,13,139	39,613	1,91,531	2,31,144	82,44,283
6,498	19,21,504	3,26,798	16,150	22,64,450	34	22,64,416	40,428	45,751	86,179	23,50,595
-5,976	15,58,723	2,39,726	6,091	18,04,540	158	18,04,382	21,985	33,561	55,546	18,59,926
...	4,876	236	...	5,112	...	5,112	...	33	33	5,145
2,07,349	2,07,10,872	43,89,429	3,05,121 4,606	2,54,09,528	1,411	2,54,08,117	1,38,613	6,79,233	8,17,846	2,62,25,903
...	11,39,528	2,11,468	13,920	13,64,914	160	13,64,754	20,466	41,030	61,496	14,26,250
...	4,41,495	97,299	2,902	5,41,696	...	5,41,696	12,536	18,154	30,690	5,72,336
1,858	1,40,077	31,819	2,076	1,73,972	...	1,73,972	1,574	4,454	6,028	1,80,000
...	19,636	3,548	23	23,207	...	23,207	...	710	710	23,917
...	1,70,629	35,275	1,612	2,07,516	80	2,07,436	1,409	6,901	8,310	2,15,746
...	1,03,432	15,097	30	1,18,559	...	1,18,559	3,102	3,019	6,121	1,24,680
...	15,67,091	3,38,105	8,754	19,13,950	504	19,13,446	14,412	56,803	71,215	19,84,661
4,318	2,26,813	49,236	5,301	2,81,400	...	2,81,400	6,545	6,900	13,445	2,94,845
6,176	38,08,699	7,81,897	34,618	46,25,214	744	46,24,470	60,044	1,37,971	1,98,015	48,22,485
2,18,525	2,45,19,071	51,71,326	3,39,739 4,606	3,00,34,742	2,155	3,00,32,587	1,98,657	8,17,204	10,15,861	3,10,48,443

V. C. FRENCH,
Deputy Accountant General, Public Works, Bombay.

STATEMENT

Statement showing the Financial Results of Irrigation

Realizations under main heads of

Works.	REVENUE (ACTUAL RECEIPTS).												Revenue Manage-		
	Irrigation.					Planta- tion.	Mis- cellane- ous.	Total.	Less— Refunds of Re- venue.	Gross Revenue, less Refunds.	Deduct- Share due to old Irriga- tion.	Total Revenue due to Improvement.	Establishment.		
	Direct.	Indirect.			Total.								Direct.	Execu- tive.	Civil Officers.
	Water- rates directly paid.	Share of Land Revenue.	4 per cent. on 1/4ths of proceeds from sale of occupancy rights in waste or other lands up to end of year.	Total.	Total.										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MAJOR WORKS.															
PRODUCTIVE PUBLIC WORKS.															
1. Desert Canal ...	1,00,252	2,42,473	1,698	2,44,171	3,44,423	87	1,435	3,45,945	...	3,45,945	...	3,45,945	...	...	17,107
2. Unharwah' ...	296	1,93,344	2,747	1,96,091	1,96,387	49	613	1,97,049	...	1,97,049	...	1,97,049	...	...	11,647
3. Begari Canal ...	40,380	5,36,098	8,439	5,44,537	5,84,917	25	2,726	5,87,668	...	5,87,668	33,613	5,54,055	...	...	36,235
4. Mahiwah' ...	1,204	2,02,784	2,775	2,05,559	2,06,763	...	4,818	2,11,579	...	2,11,579	1,10,497	1,01,082	...	...	14,636
5. Eastern Nara Works.	3,362	5,64,317	2,431	5,66,748	5,70,110	361	19,849	5,90,320	...	5,90,320	3,444	5,86,876	...	...	34,761
6. Jámrao Canal ...	1,245	5,95,784	38,372	5,74,156	5,75,401	145	13,848	5,94,394	...	5,94,394	...	5,94,394	...	42,810	16,527
7. Dad do. ...	3,596	2,61,853	6,043	2,67,896	2,71,492	651	3,207	2,75,350	...	2,75,350	83,913	1,91,437	...	...	18,952
8. Nasrat do. ...	—311	2,57,571	8,299	2,65,870	2,65,559	186	1,940	2,67,685	...	2,67,685	72,654	1,94,831	...	...	18,339
9. Naulakhi do. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,50,024	27,94,224	70,804	28,65,028	30,15,052	1,504	53,434	30,69,990	...	30,69,990	3,04,321	27,65,669	...	42,810	1,66,264
MINOR WORKS AND NAVIGATION.															
10. Sukkur Canal ...	1,383	2,61,001	776	2,61,777	2,63,160	200	2,495	2,65,855	...	2,65,855	84,806	1,81,049	...	...	19,180
11. Ghár do. ...	5,503	7,33,233	7,486	7,40,719	7,46,222	11	10,526	7,56,759	...	7,56,759	1,35,512	6,21,247	...	...	50,032
12. Sattah do. ...	76	35,806	478	36,384	36,460	...	785	37,245	...	37,245	16,145	21,100	...	...	2,316
13. Alibhar Kacheri Canal ...	401	25,553	£39	26,392	26,793	...	229	27,022	...	27,022	17,505	9,517	...	...	2,261
14. Marak Great Canal...	1,950	1,42,193	3,127	1,45,320	1,47,270	...	454	1,47,724	...	1,47,724	59,437	86,287	...	...	11,030
15. Surfrazwah' ...	2,969	57,343	1,292	58,640	61,509	...	767	62,216	...	62,216	16,806	43,410	...	...	4,366
16. Fuleli Canal ...	31,909	7,57,095	11,414	7,68,509	8,00,418	207	12,483	8,13,110	...	8,13,110	2,44,549	5,68,561	...	...	57,135
17. Hassanali Canal ...	—294	42,238	892	42,630	42,336	...	911	43,247	...	43,247	5,916	37,331	...	...	2,622
Total ..	43,787	20,54,567	25,804	20,80,371	21,24,168	418	28,592	21,53,178	...	21,53,178	5,82,676	15,70,502	...	...	1,48,942
GRAND TOTAL ...	1,93,821	48,48,791	96,608	49,45,399	51,39,220	1,922	82,026	52,23,168	...	52,23,168	8,86,997	43,36,171	...	42,810	3,15,206
Works for which only Revenue Accounts are kept ...	27,340	24,05,428	44,370	24,50,298	24,77,638	1,400	44,319	25,23,357	...	25,23,357	...	25,23,357	...	...	1,46,875

I-C.

Works in Sind for the year ended 31st March 1910.

Revenue and Working Expenses.

WORKING EXPENSES.															NET REVENUE.			
Total Revenue Management.	Maintenance and Repairs.										Indirect Charges.	Grand Total Working Expenses.	Deduct—Old Maintenance Charges.			Total Working Expenses on Improvements.	Total.	Due to Improvements.
	Establishment.			Works.	Repairs.	Sundries.	Plantations.	Tools and Plant.	Total Cost of Maintenance.	Direct.			In-direct.	Total.				
	Direction.	Executive.	Total.															
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
17,167	3,302	3,304	6,606	4,045	99,011	...	854	7	1,10,523	1,285	1,28,975	...	...	...	1,28,975	2,16,970	2,10,970
11,637	843	844	1,687	2,500	22,991	...	382	...	27,506	236	39,443	...	...	...	39,443	1,57,006	1,57,006
36,235	2,368	3,327	6,195	2,106	73,986	...	453	...	82,740	1,162	1,30,127	8,767	2	8,751	1,11,368	4,67,541	4,42,067	
14,636	1,365	-5,110	-3,745	2,829	41,010	...	...	89	40,174	-524	54,266	21,007	273	21,280	33,006	1,57,293	68,076
34,761	7,741	33,595	41,344	2,062	1,18,668	17	1,124	1,536	1,64,741	5,788	2,05,290	344	...	344	2,04,946	3,85,030	3,61,930	
59,337	8,488	77,056	85,544	3,078	1,20,619	-342	16,617	2,447	2,27,901	17,970	3,05,218	...	...	...	3,05,268	2,69,126	2,69,126
18,962	4,142	14,170	18,312	1,020	63,376	...	693	439	63,340	2,564	1,05,356	44,076	1,138	45,214	60,142	1,69,994	1,31,295	
16,339	3,235	11,230	14,515	1,032	51,318	...	434	417	67,716	2,032	86,067	10,355	453	10,400	66,279	1,61,593	1,28,553	
...	
2,09,074	31,542	1,36,916	1,70,458	18,670	5,90,969	-325	20,567	4,026	8,05,255	30,503	10,44,832	93,539	1,806	95,405	9,49,427	20,25,168	18,16,242	
18,180	1,475	10,718	12,193	4,519	44,930	...	438	600	62,575	1,707	83,482	13,256	100	13,362	70,100	1,82,393	1,10,049	
50,032	4,090	29,708	33,798	3,140	1,20,705	...	1,517	-20	1,59,230	5,093	2,14,357	18,680	101	18,441	1,95,516	5,42,402	4,25,731	
2,316	708	2,096	2,804	70	21,644	...	...	-361	24,163	393	26,972	8,990	225	9,218	17,651	10,373	8,443
2,261	236	608	844	...	3,688	...	...	-53	4,479	110	6,839	9,070	184	9,266	-2,407	20,103	11,024
11,030	1,267	3,266	4,533	...	19,811	...	...	-236	24,058	635	35,723	22,976	427	23,406	12,318	1,12,001	75,969
4,366	880	2,267	3,147	...	13,055	...	694	-199	16,697	441	21,504	7,651	170	7,821	13,683	40,712	29,717	
57,135	10,443	33,554	43,907	5,091	1,53,006	...	318	282	2,07,695	6,160	2,70,990	1,14,265	2,006	1,16,367	1,54,629	5,42,120	4,13,432	
2,622	1,141	3,667	4,808	863	16,979	...	...	31	22,631	673	25,978	3,380	78	3,458	22,518	17,271	14,813
1,46,942	20,240	85,634	1,06,124	13,689	3,98,806	...	2,963	-6	5,21,573	18,223	6,85,743	1,68,281	3,451	2,01,732	4,84,011	14,67,436	10,36,401	
3,58,016	51,782	2,24,800	2,76,582	32,359	9,59,777	-325	23,520	4,920	13,26,333	45,726	17,30,575	2,91,820	5,817	2,97,137	14,33,433	34,92,593	29,02,733	
1,46,875	20,840	68,970	89,810	51,227	4,80,325	...	...	-2,533	6,18,826	...	7,65,701	...	...	...	7,65,701	17,57,666	17,57,666

V. C. FRENCH,
Deputy Accountant General, Public Works, Bombay.

STATEMENT II-C.

Statement showing the Financial Results of Irrigation Works in Sind for the year 1909-1910,
based on actual receipts.

Irrigation Works.	Direct and Indirect Capital Outlay to end of 1909-1910.	REVENUE RECEIPTS.			WORKING EXPENSES.			Net Revenue due to Improvements.	Percent- age of Net Revenue on Capital Out- lay to end of year.	Interest at average rate.	SURPLUS REVENUE AFTER PAYING INTEREST.		EXCESS CHARGES, INCLUDING INTEREST.	
		Gross Receipts, Direct and Indirect from all sources.	Deduct— Share due to old Irrigation Works.	Total Revenue due to Improve- ments.	Total Charges, Direct and Indirect.	Deduct— Old Mainte- nance charges.	Total, Working Expenses on Im- prove- ments.				Amount.	Percent- age on Capital Outlay.	Amount.	Percent- age on Capital Outlay.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MAJOR WORKS.														
PRODUCTIVE WORKS.														
1. Desert Canal	27,01,268	3,45,945	...	3,45,945	1,28,975	...	1,28,975	2,16,970	8'08	88,054	1,28,916	4'77	...	...
2. Unharwáh	7,99,132	1,97,049	...	1,97,049	39,443	...	39,443	1,57,606	22'23	23,018	1,34,538	18'08	...	...
3. Begári Canal	21,99,433	5,87,668	33,613	5,54,055	1,20,127	8,759	1,11,368	4,42,687	20'13	70,395	3,72,292	16'93	...	...
4. Mahiwáh	13,79,152	2,11,579	1,10,497	1,01,082	54,286	21,280	33,006	68,076	4'94	44,388	23,638	1'72	...	...
5. Eastern Nára Works	67,77,039	5,90,320	3,444	5,86,876	2,05,290	344	2,04,946	3,81,930	5'64	2,19,444	1,02,436	2'40	...	...
6. Jámráo Canal	82,44,283	5,94,394	...	5,94,394	3,05,268	...	3,05,268	2,89,126	3'51	2,67,749	21,377	0'23	...	...
7. Dád do.	23,50,595	2,75,350	63,913	1,91,437	1,05,356	45,214	60,142	1,31,295	5'59	75,936	55,359	2'36	...	...
8. Naerat do.	18,59,923	2,67,685	72,554	1,94,831	88,087	19,808	66,279	1,28,552	6'91	60,699	67,353	3'65	...	...
9. Naulákhí do.	5,145	...	...	...	...	...	...	...	...	172	...	...	172	3'34
Total, Major Works ...	2,62,25,963	30,69,990	3,04,321	27,65,669	10,44,832	95,405	9,49,427	18,16,242	6'93	8,49,855	9,66,367	3'63	...	...
MINOR WORKS AND NAVIGATION.														
10. Sukkur Canal	14,26,250	2,65,855	84,806	1,81,049	83,463	13,362	70,100	1,10,949	7'78	45,523	65,121	4'57	...	...
11. Ghár do.	5,72,368	7,56,759	1,35,512	6,21,247	2,14,567	18,841	1,95,516	4,25,731	74'38	18,190	4,07,541	71'20	...	...
12. Suttah do.	1,30,000	37,245	16,145	21,100	26,872	9,218	17,654	3,446	1'91	5,837	...	...	2,391	1'33
13. Alibhar Kacheri Canal	23,917	27,022	17,505	9,517	6,859	9,286	-2,407	11,924	49'86	779	11,145	48'80	...	...
14. MáraK Great Canal	2,15,748	1,47,724	59,437	88,287	35,723	23,405	12,318	75,969	35'21	6,966	69,008	31'98	...	...
15. Surfrazwah	1,24,680	62,216	18,906	43,410	21,504	7,821	13,693	29,727	23'84	3,931	25,746	20'65	...	...
16. Fuleli Canal	19,84,661	8,13,110	2,44,549	5,68,561	2,70,990	1,16,361	1,54,629	4,13,932	20'88	61,254	3,49,678	17'62	...	...
17. Hassanali Canal	2,94,345	43,247	5,916	37,331	25,976	3,458	22,518	14,313	5'02	9,379	5,434	1'84	...	...
Total, Minor Works and Navigation ...	43,22,485	21,53,178	5,82,876	15,70,502	6,65,743	2,01,732	4,84,011	10,96,491	22'53	1,55,214	9,31,277	19'31	...	...
GRAND TOTAL ...	3,10,48,443	52,23,168	8,36,997	43,36,171	17,30,575	2,97,137	14,33,433	29,02,733	9'35	10,05,069	18,97,664	6'11	...	...

V. C. FRENCH,
Deputy Accountant General, Public Works, Bombay.

STATEMENT III-C.

Demands and Realizations during the year 1909-1910 in Sind.

Irrigation Works.		Balance of demands unrealized at commencement of year. (a)	Demands of year.	Total.	Deduct Remissions including Cash Refunds.	Net Total.	Deduct Amount unrealized at close of year.	Actual Total Receipts of year.	Deduct Share due to old Irrigation.	Total Revenue due to Improvements.
1		2	3	4	5	6	7	8	9	10
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
MAJOR WORKS.										
PRODUCTIVE WORKS.										
1	Desert Canal	64,158	3,27,586	3,91,744	299	3,91,445	45,500	3,45,945	...	3,45,945
2	Unharwáh	17,178	1,84,663	2,01,841	52	2,01,789	4,740	1,97,049	...	1,97,049
3	Begári Canal	27,902	5,69,404	5,97,306	2,740	5,94,566	6,898	5,87,668	83,613	5,54,055
4	Mahiwáh	9,171	2,12,150	2,21,321	149	2,21,172	9,598	2,11,579	1,10,497	1,01,082
5	Eastern Nára Works ...	25,906	5,76,177	6,02,083	5,207	5,96,876	6,556	5,90,320	3,444	5,86,876
6	Jámráo Canal	1,79,157	5,47,824	7,26,981	7,404	7,19,577	1,25,183	5,94,394	...	5,94,394
7	Dád do.	26,107	2,68,422	2,94,529	...	2,94,529	19,179	2,75,350	83,913	1,91,437
8	Nasrat do.	25,455	2,64,046	2,89,501	...	2,89,501	21,816	2,67,685	72,854	1,94,831
9	Naulákhí do. (b) ...	...	...	...	...	...	...	...	...	...
	Total, Major Works ...	3,75,084	29,50,272	33,25,356	15,851	33,09,505	2,39,465	30,69,990	3,04,321	27,65,669
MINOR WORKS AND NAVIGATION.										
10	Sukkur Canal	5,488	2,64,323	2,69,811	...	2,69,811	3,956	2,65,855	84,306	1,81,049
11	Ghár do.	18,503	7,53,523	7,72,026	2,012	7,70,014	13,255	7,56,759	1,35,512	6,21,247
12	Suttah do.	3,323	39,240	42,563	...	42,563	5,318	37,245	16,145	21,100
13	Alibhar Kacheri Canal ...	752	26,766	27,518	...	27,518	496	27,022	17,505	9,517
14	Marak Great do. ...	8,027	1,45,444	1,53,471	14	1,53,457	5,733	1,47,724	59,437	88,237
15	Suzfrazwah	8,052	59,312	67,364	...	67,364	5,148	62,216	18,806	43,410
16	Fuleli Canal	91,706	7,83,550	8,75,256	91	8,75,165	62,055	8,13,110	2,44,549	5,68,561
17	Hussanali do.	5,905	45,065	50,970	...	50,970	7,723	43,247	5,916	37,331
	Total, Minor Works and Navigation ...	1,41,756	21,17,223	22,58,979	2,117	22,56,862	1,03,684	21,53,178	5,82,676	15,70,502
	GRAND TOTAL ...	5,16,790	50,67,495	55,84,285	17,968	55,66,317	3,43,149	52,23,168	8,86,997	43,36,171

(a) Correct balances as now reported by the Revenue Officers in Canal Returns Nos. VIII-A and IX.

(b) Work under construction.

V. C. FRENCH,
Deputy Accountant General, Public Works, Bombay.

STATEMENT

Statement showing the Financial Results of Irrigation Works in Sind

Principal Results of Operations

Irrigation Works.	Capital Outlay (Direct and Indirect) to end of year.	REVENUE ASSESSED						
		Direct Revenue.				Indirect Revenue Revenue due to opera canal.		
		Occupier's rate.	Plantations.	Miscellaneous.	Total.	Share of Land Revenue.	4 per cent. on 1/10ths of proceeds from sale of occupancy rights in waste or other lands up to end of year.	
1	2	3	4	5	6	7	8	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
MAJOR WORKS.								
PRODUCTIVE WORKS.								
1	Desert Canal	27,01,256	91,753	87	1,435	93,275	2,32,613	1,698
2	Unharwah	7,09,132	247	49	613	909	1,81,007	2,747
3	Begári Canal	21,99,433	32,119	25	2,726	34,870	5,26,095	8,439
4	Mahiwah	13,79,152	1,044	...	4,816	5,860	2,03,515	2,775
5	Eastern Nára Works ...	67,77,039	2,695	361	19,849	22,905	5,50,841	2,431
6	Jámrao Canal	82,44,283	1,447	145	18,848	20,440	4,89,012	33,372
7	Dád do.	23,50,595	2,847	651	3,207	6,705	2,55,674	6,043
8	Nasrat do.	18,59,928	138	186	1,940	2,264	2,53,483	8,299
9	Naulakhi do.	5,145	...	...	...	...	.....	...
	Total, Major Works ...	2,62,25,963	1,32,290	1,504	53,434	1,87,228	26,92,240	70,804
MINOR WORKS AND NAVIGATION.								
10	Sukkur Canal	14,26,250	1,601	200	2,495	4,296	2,59,251	776
11	Ghár do.	5,72,386	1,276	11	10,526	11,813	7,34,224	7,486
12	Sattah do.	1,80,000	66	...	785	851	37,911	478
13	Alibhar Kacheri Canal ...	23,917	422	...	229	651	25,276	899
14	Marak Great do. ...	2,15,746	2,355	...	454	2,809	1,39,508	3,127
15	Sarfrazwah	1,24,680	2,077	...	707	2,784	55,236	1,292
16	Fuleli Canal	19,84,661	29,484	207	12,485	42,176	7,29,960	11,414
17	Hassanali Canal	2,94,345	458	...	911	1,369	43,304	392
	Total, Minor Works and Navigation ...	48,22,485	37,739	418	28,592	66,749	20,24,670	25,304
	GRAND TOTAL ...	3,10,48,448	1,70,029	1,922	82,026	2,53,977	47,16,910	96,608

No. IV-C.

for the year ended 1909-1910, based on the assessment of the year.

for the year ended 31st March 1910.

DURING THE YEAR.					WORKING EXPENSES.			NET REVENUE OF THE YEAR.		Percentage on Capital Outlay to end of year (Improvements only).
—Land tion of	Refund of Revenue.	Grand Total.	Deduct— Share due to old Irrigation.	Total Revenue due to Improvements.	Total Charges, Direct and Indirect.	Deduct— Old Main- tenance Charges.	Total Work- ing Expenses on Improvements.	Total.	Due to Improvements.	
Total.										
9	10	11	12	13	14	15	16	17	18		19
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
2,34,311	...	3,27,586	...	3,27,586	1,28,975	...	1,28,975	1,98,611	1,98,611	7.85
1,83,754	...	1,84,663	...	1,84,663	39,443	...	39,443	1,45,220	1,45,220	20.48
5,34,534	...	5,69,404	33,613	5,35,791	1,20,127	8,759	1,11,368	4,49,277	4,24,423	19.30
2,06,290	...	2,12,150	1,10,497	1,01,653	54,236	21,280	33,006	1,57,864	63,647	4.93
5,53,272	...	5,76,177	8,444	5,72,733	2,05,290	344	2,04,946	3,70,887	3,67,787	5.43
5,27,384	...	5,47,324	...	5,47,324	3,05,268	...	3,05,268	2,42,556	2,42,556	2.04
2,61,717	...	2,63,422	83,913	1,84,509	1,05,356	45,214	60,142	1,63,066	1,24,367	5.29
2,61,782	...	2,64,046	72,854	1,91,192	86,087	19,808	66,279	1,77,959	1,24,913	6.72
...
27,63,044	...	29,50,272	3,04,321	26,45,951	10,44,832	95,405	9,49,427	19,05,440	16,96,524	6.47
2,60,027	...	2,84,323	84,806	1,79,517	83,463	13,362	70,100	1,80,861	1,09,417	7.67
7,41,710	...	7,53,523	1,35,512	6,18,011	2,14,357	18,841	1,95,516	5,39,166	4,22,495	73.81
33,389	...	39,240	16,145	23,095	26,872	9,218	17,654	12,368	5,441	3.02
26,115	...	26,766	17,505	9,261	6,859	9,266	-2,407	19,907	11,663	48.79
1,42,635	...	1,45,444	59,437	86,007	35,723	23,405	12,318	1,09,721	73,689	34.16
56,528	...	59,312	18,806	40,506	21,504	7,821	13,683	37,803	26,323	21.51
7,41,374	...	7,83,550	2,44,549	5,39,001	2,70,990	1,16,361	1,54,629	5,12,560	3,84,372	19.37
43,696	...	45,065	5,916	39,149	25,976	3,458	22,518	19,089	16,631	5.64
20,50,474	...	21,17,223	5,82,676	15,34,547	6,85,743	2,01,732	4,84,011	14,31,430	10,50,536	21.78
48,13,513	...	50,67,495	8,86,997	41,80,498	17,30,575	2,97,137	14,33,438	33,36,920	27,47,060	8.85

V. C. FRENCH,
Deputy Accountant General, Public Works, Bombay.

General Abstract of Financial Results of Irrigation

		MAJOR WORKS—PRODUCTIVE WORKS.										MINOR WORKS AND NAVIGATION— AND REVENUE ACCOUNTS				
		In operation.									Under Con- struction.	In operation.				
		Desert Canal.	Unharwāh	Begāri Canal.	Mahi- wāh.	Eastern Nara Works.	Jāmrao Canal.	Dād Canal.	Nas- rat Canal.	Naulakhi Canal.	Total.	Sukkur Canal.	Ghār Canal.	Suttah Canal.	Alibhar Kacheri Canal.	Marak Great Canal.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Capital Outlay.	During year...	...	9,642	84,008	...	26,792	79,326	6,151	-6,418	...	1,99,501	...	...	284	...	
	Direct ...	...	9,642	84,008	...	26,792	79,326	6,151	-6,418	...	1,99,501	...	...	284	...	
	Indirect...	...	252	2,190	...	1,867	2,760	347	442	...	7,346	...	...	1,574	...	
	Total ...	...	9,894	86,198	...	28,659	82,076	6,498	-5,976	...	2,07,349	...	...	1,858	...	
To end of year.	During year...	26,22,235	6,90,284	21,38,331	13,21,850	65,48,368	80,13,139	22,64,416	18,04,382	5,112	2,54,08,117	13,64,754	5,41,686	1,73,972	23,207	2,07,436
	Direct ...	26,22,235	6,90,284	21,38,331	13,21,850	65,48,368	80,13,139	22,64,416	18,04,382	5,112	2,54,08,117	13,64,754	5,41,686	1,73,972	23,207	2,07,436
	Indirect...	79,021	18,848	61,102	57,302	2,28,671	2,31,144	86,179	55,546	33	8,17,846	61,486	30,690	6,028	710	8,310
	Total ...	27,01,256	7,09,132	21,99,433	13,79,152	67,77,039	82,44,283	23,50,595	18,59,928	5,145	2,62,25,963	14,26,250	5,72,386	1,80,000	23,917	2,15,746
Gross Revenue.	During year...	1,01,774	958	43,131	4,558	23,572	20,238	4,644	1,084	...	1,99,959	4,078	16,040	608	630	2,404
	Direct ...	1,01,774	958	43,131	4,558	23,572	20,238	4,644	1,084	...	1,99,959	4,078	16,040	608	630	2,404
	Indirect...	2,44,171	1,96,091	5,10,924	96,524	5,63,304	5,74,156	1,36,798	1,83,747	...	25,65,715	1,76,971	6,05,207	20,297	8,887	85,883
	Total ...	3,45,945	1,97,049	5,54,055	1,01,082	5,86,876	5,94,394	1,91,442	1,94,831	...	27,65,674	1,81,049	6,21,247	21,106	9,517	88,287
To end of year.	During year...	13,74,046	8,223	11,25,394	10,610	11,34,366	5,62,732	13,329	4,081	...	42,32,781	78,714	4,48,706	719	25,567	1,21,703
	Direct ...	13,74,046	8,223	11,25,394	10,610	11,34,366	5,62,732	13,329	4,081	...	42,32,781	78,714	4,48,706	719	25,567	1,21,703
	Indirect...	46,28,250	28,14,217	1,16,39,062	5,98,806	1,57,16,868	54,98,974	8,98,199	9,68,276	...	4,27,52,844	40,90,935	2,35,29,769	74,432	1,90,431	21,55,855
	Total ...	59,97,296	28,22,440	1,27,64,446	6,09,416	1,68,51,234	60,61,706	9,06,528	9,72,356	...	4,69,85,625	41,69,649	2,39,73,475	75,151	2,15,998	22,77,558

Works in Sind for, and to end of, 1909-1910.

WORKS FOR WHICH CAPITAL ARE KEPT.				Grand Total.	MINOR WORKS AND NAVIGATION—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.								Expenditure on and Receipts from Agricultural Works for which neither Capital nor Revenue Accounts are kept.	
Snr. frazváh.	Fuleh Canal.	Hassanali Canal.	Total.		Shikarpur Canals District.	Western Nara District.	Karachi Canals District.	Survey and construction District.	Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleh Canals District.	Total.	Expenditure.	Receipts.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		4,209	4,493	2,03,994									BEGARI CANALS DISTRICT.	
													Extensions and Improvements ...	377
													Kashmor Bund { Maintenance and Repairs. ...	43,881
													Khelat Survey ...	158
													Extending Kunderwah to feed Gonspur Branch ...	6,146
													Constructing new Gonspur Loop ...	37,626
													Do. a compound wall and providing a punkha for the subordinates' quarters at Gonspur. ...	358
													Re-constructing the old Tori Bund ...	20,989
													Constructing new Halbut Loop from Ghara Ghat to Tori Stop Gate Regulator. ...	1,01,158
													Constructing new Bund from Tori Stop Gate to meet the Gonspur Branch ...	18,848
		4,209	4,493	2,03,994									Extending Channel ex Unharwah, mile 3.7 Right Bank. ...	224
		109	1,633	9,531									Begari Canal—Maintenance and Repairs. ...	5,383
													Establishment ... { Direction and Accounts. ...	11,486
													Executive ...	42,802
													Tools and Plant ...	2,217
													Suspense Account ...	1,193
													Share of collection charges ...	4,204
		4,318	6,176	2,13,525									Direct Receipts ...	2,337
													Irrigation share of Land Revenue ...	47,853
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands. ...	363
													Total, Begari Canals District ...	2,06,851
													WESTERN NARA DISTRICT.	
													Raising and strengthening the Abud Bund. ...	228
													Constructing a new Public Works Bungalow with outhouses on Fatehpur Bund ...	4,877
1,13,559	19,13,448	2,81,400	46,24,470	3,00,32,557									Constructing Subordinates Land and store-room at Hassanwah on Abud Bund. ...	1,825
													Nara Bund ... { Extensions and Improvements. ...	2,027
													Maintenance and Repairs. ...	24,701
6,121	71,215	13,445	1,08,015	10,15,861									Constructing a Bund in Batho Forest. ...	1,788
													Bunds north of Kotri. ... { Extensions and Improvements. ...	68
													Maintenance and Repairs. ...	2,650
1,21,680	19,84,661	2,94,815	48,22,485	3,10,48,448									Establishment ... { Direction and Accounts. ...	1,863
													Executive ...	6,706
													Tools and Plant ...	99
													Suspense Account ...	276
													Share of collection charges ...	642
													Direct Receipts ...	57
													Irrigation share of Land Revenue ...	10,700
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands. ...	20
													Total, Western Nara District ...	47,127
													SURVEY AND CONSTRUCTION DISTRICT.	
													Making a survey for the Right Bank Canal. ...	5,897
													Taking observations of the sub-soil water in the area covered by the proposed Indus Right Bank Canal. ...	178
													Establishment ... { Direction and Accounts. ...	304
													Executive ...	48,693
3,576	44,601	424	72,556	2,72,515	10,609	32,504	11,974		2,907	12,463	2,911	73,069	Tools and Plant ...	1,837
													Suspense Account ...	25
													Total, Survey and Construction District. ...	56,834
													SHIKARPUR CANALS DISTRICT.	
													Raising and strengthening the existing Left Bank of the Begari Canal. ...	3,550
													Constructing Sluices Naich Bund ...	499
													Constructing a protective Bund along the southern boundary of the Gahri Halim Forest. ...	1,000
43,410	5,68,561	37,331	15,70,502	43,36,176	4,90,626	9,80,111	4,68,573		2,18,699	3,32,602	57,746	25,23,357	Constructing Railway diversion Rohri Bund. ...	32,457
													Demolishing the old sluice and constructing a new one Kasimpur Bund over Karla Arrowah. ...	200
													Bunds in Rohri. ... { Extensions and Improvements. ...	202
													Maintenance and Repairs. ...	1,698
													Kasimpur Bund—Maintenance and Repairs. ...	3,319
													Naich Bund—Maintenance and Repairs. ...	8,116
													Constructing Tie Loop ...	14,500
80,394	14,28,076	13,509	21,82,335	64,15,169									Sukkur-Begari Bund. ... { Maintenance and Repairs. ...	29,704
													Extensions and Improvements. ...	2,329
													Raising and strengthening the Sukkur Begari Bund at several miles. ...	20,648
7,76,038	1,38,28,065	2,06,594	4,48,51,119	8,76,03,763									Constructing loops on several miles of Sukkur Begari Bund. ...	2,68,039
													Carried over ...	3,86,251
8,56,432	1,52,56,141	2,09,103	4,70,33,507	9,40,18,932										4,00,812

General Abstract of Financial Results of Irrigation

	MAJOR WORKS—PRODUCTIVE WORKS.										MINOR WORKS AND NAVIGATION— AND REVENUE ACCOUNTS					
	In operation.									Under Con- struction.	Total.	In operation.				
	Desert Canal.	Unharwāt	Begri Canal.	Mahi- wāh.	Eastern Nāra Works.	Jāmrao Canal.	Dād Canal.	Nas- rat Canal.	Naulakhi Canal.	Sukkur Canal.		Ghār Canal.	Sattah Canal.	Alibhar Kacheri Canal.	Marak Great Canal.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
<i>Working Expenses.</i>																
During year...	Direct ...	1,27,690	39,207	1,10,218	33,803	1,99,158	2,87,296	58,721	64,700	...	9,20,795	68,499	1,90,482	17,486	-2,338	12,110
	Indirect...	1,285	236	1,150	-797	5,768	17,970	1,426	1,579	...	28,637	1,601	4,934	168	-69	208
	Total ...	1,28,975	39,443	1,11,368	33,006	2,04,946	3,05,266	60,147	66,279	...	9,49,432	70,100	1,95,416	17,654	-2,407	12,318
<i>Net Revenue.</i>																
To end of year...	Direct ..	26,12,517	8,58,472	38,61,208	3,47,644	55,92,151	26,04,159	5,97,617	3,57,931	...	1,68,31,700	20,71,574	66,50,128	53,476	1,01,400	7,43,447
	Indirect...	57,008	14,232	90,047	-1,329	1,93,605	1,40,440	14,369	8,375	...	5,16,527	58,630	1,68,131	215	3,619	22,525
	Total ...	26,69,525	8,72,704	39,51,255	3,46,315	57,85,756	27,44,599	6,12,016	3,66,306	...	1,73,48,227	21,30,204	68,18,259	53,691	1,05,079	7,65,972
During year ...	...	2,16,970	1,57,696	4,42,687	68,076	3,31,930	2,89,126	1,31,205	1,28,562	...	18,16,242	1,10,949	4,25,731	3,44	11,924	75,969
To end of year ...	...	33,27,771	19,49,688	88,13,190	2,63,104	1,10,65,478	33,17,107	2,94,512	6,06,050	...	2,96,36,898	20,39,445	1,71,55,216	21,460	1,10,919	15,11,583

Works in Sind for, and to end of, 1909-1910—continued.

WORKS FOR WHICH CAPITAL ARE KEPT.				MINOR WORKS AND NAVIGATION—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									Expenditure on and Receipts from Agricultural Works for which neither Capital nor Revenue Accounts are kept.		
Sur-frazwah	Fuleli Canal.	Hassan-ali Canal.	Total.	Grand Total.	Shikarpur Canals District.	Western Nara District.	Karachi Canals District.	Survey and Construction District.	Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleli Canals District.	Total.	Rs.	Rs.	Total.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
13,412	1,50,565	21,933	4,72,235	18,98,034	1,22,974	1,08,801	2,40,889	...	88,360	86,070	22,007	7,65,701	Brought forward ...	4,00,812	61,628
271	4,061	595	11,772	40,409	...	...	...	...	...	...	...	...	SHIKARPUR CANALS DISTRICT—contd.	8,86,251	...
13,083	1,51,629	22,518	4,84,011	14,38,443	1,22,974	1,08,801	2,46,889	...	88,360	86,070	22,007	7,65,701	Mahiwah ...	88	...
4,70,622	69,68,589	1,23,301	1,71,01,695	3,40,23,395	...	...	...	...	...	...	...	...	Establishment ...	10,087	...
15,861	2,07,875	3,806	4,50,807	9,97,402	...	...	...	...	...	...	...	...	Tools and Plant ...	10,897	...
4,93,486	71,76,464	1,27,205	1,76,72,365	3,50,20,887	...	...	...	...	...	...	...	...	Suspense Account ...	69,435	...
29,727	4,13,932	14,813	10,86,491	29,02,733	3,67,652	7,61,310	2,16,684	...	1,30,339	2,46,532	35,139	17,57,65	Share of collection charges ...	3,393	...
3,60,946	60,79,677	51,898	3,93,61,147	5,69,98,045	...	...	...	...	...	...	...	...	Direct Receipts ...	32,359	...
													Irrigation share of Land Revenue ...	10,355	2,864
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands.	...	1,33,116
													Total, Shikarpur Canals District ...	...	1,063
													GHAR CANALS DISTRICT.	4,76,032	1,37,013
													Ghar Bunds ...	8,679	...
													Sukkur Canal—Maintenance and Repairs.	964	...
													Ghar Canal—Do.	4,135	...
													Establishment ...	692	...
													Tools and Plant ...	3,251	...
													Suspense Account ...	134	...
													Share of collection charges ...	745	...
													Direct Receipts ...	22,300	...
													Irrigation share of Land Revenue ...	...	309
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands.	...	2,24,716
													Total, Ghar Canals District ...	43,821	2,25,052
													KARACHI CANALS DISTRICT.	...	...
													Bunds Right Bank ...	2,155	...
													Constructing a new Inspection chowkey and outhouses at Savalpur.	2,115	...
													Panah Baghar Bund—Maintenance and Repairs.	3,784	...
													Strengthening the old Panah Bund at Kathian.	3,669	...
													Baghar Uchito Bund .	2,961	...
													Sandhu Hilaya Bund—Maintenance and Repairs.	32,005	...
													Constructing an embankment for the purpose of confining flood water within Huddarani and Panah Forest.	3,849	...
													Bunds, Left Bank .	1,998	...
													Khanto Embankment—Maintenance of.	2,595	...
													Kokawari Bund—do.	914	...
													Kokawari Bund—Constructing a loop on the.	1,828	...
													Mulchand Shahbunder Bunds—Extensions and Improvements.	8,966	...
													Mulchand Shahbunder Bunds—Maintenance and Repairs.	32,627	...
													Constructing a Loop bund for the proposed new Head Regulator of Mirwah Nawab.	3,807	...
													Constructing a Loop bund for the proposed new Head Regulator of Mahomedwah.	1,12,997	...
													Sattah Canal—Extensions and Improvements.	1,700	...
													Do. Maintenance and Repairs.	1,000	...
													Establishment { Direction and Accounts.	1,994	...
													Tools and Plant ...	4,267	...
													Suspense Accounts ...	11,509	...
													Carried over ...	42,076	...
														3,366	...
														3,542	...
														2,85,574	...
														9,20,765	4,24,343

General Abstract of Financial Results of Irrigation

	MAJOR WORKS—PRODUCTIVE WORKS.										MINOR WORKS AND NAVIGATION— AND REVENUE ACCOUNTS					
	In operation.									Under Con- struction.	Total.	In operation.				
	Desert Canal.	Unharwāh	Begāri Canal.	Mahī- wāh.	Eastern Nāra Works.	Jāmrao Canal.	Dād Canal.	Nas- rat Canal	Naulakhi Canal.	Sukkar Canal.		Ghār Canal.	Sattah Canal.	Allbhar Kacheri Canal.	Marak Great Canal.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
<i>Style Interest.</i>																
During year	88,064	23,018	70,395	44,388	2,19,444	2,67,749	75,936	60,609	172	8,49,655	...	...	...	...	...
To end of year	19,46,527	5,06,126	28,94,681	3,60,893	88,37,466	85,72,339	8,15,326	4,78,894	1,213	1,84,13,445	...	...	...	...	...
<i>Net Profit after paying of Interest.</i>																
During year	1,28,916	1,34,578	3,72,292	23,698	1,62,486	21,377	55,359	67,653	-172	9,66,587	...	...	...	...	...

Works in Sind for, and to end of, 1909-1910—continued.

WORKS FOR WHICH CAPITAL ARE KEPT.				MINOR WORKS AND NAVIGATION—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									Expenditure on and Receipts from Agricultural Works for which neither Capital nor Revenue Accounts are kept.			
Snr. frazwah.	Fuleli Canal.	Hassan-ali Canal.	Total.	Grand Total.	Shikarpur Canals District.	Western Nara District.	Karachi Canals District.	Survey and Construction District.	Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleli Canals District.	Total.		Expenditure.	Receipts.	
														Rs.	Rs.	
														Brought forward ...	9,20,765	4,24,343
														KARACHI CANALS DISTRICT— <i>continued.</i>		
														Mathematical Instrument Depot—	32,958	...
														Tools and Plant.	...	...
														Share of collection charges	2,330	...
														Direct Receipts	...	1,934
														Irrigation share of Land Revenue	...	35,609
														Four per cent. on 9/10ths on receipts from sale of occupancy rights on land.	...	393
														Total, Karachi Canals District	3,20,862	37,936
														INDUS RIVER COMMISSION DISTRICT.		
														Carrying out borings for the proposed barrage at Sukkur.	1,734	...
														Making survey on the Indus	24,285	...
														Maintaining Steamers, gauges, and snagging Indus.	23,311	...
														Store room at Sukkur	76	...
														Beacons at Seer Kajur, Mull and Hajjuroo mouths,	17	...
														Repairs and re-erecting of beacons along the Indus.	57	...
														Excavating a trench in wet earth in front of the Kotri Gauge.	69	...
														Assistant Engineer's Office at Kotri, Bukkur Din Bello and outfall canals.	128	...
														Maintaining a central passage clear of forest.	185	...
														Establishment ... { Direction and Accounts, Executive ...	1,201	...
														Tools and Plant	80,305	...
														Suspense Account	5,126	...
														Direct Receipts	472	194
														Total, Indus River Commission District	1,46,191	194
														NORTHERN HYDRABAD CANALS DISTRICT.		
														Constructing a bund between Nasrat and Naulaki Canals.	6,909	...
														Naulaki Bhorli } Extensions and Improvements.	451	...
														do. } Maintenance and Repairs.	2,900	...
														Canal Chowki at Dawlutpur—Maintenance of the.	387	...
														Indus survey marks—Maintenance of the.	5	...
														Experimenting on the cultivation of Berseem in the shera garden.	17	...
														Survey of the Kohri Hyderabad Canal Project.	3,021	...
														Dud Canal ... { Extensions and Improvements.	4,608	...
														do. } Maintenance and Repairs.	23,211	...
														Nasrat Canal ... { Extensions and Improvements.	106	...
														do. } Maintenance and Repairs.	10,709	...
														Establishment. { Direction and Accounts, Executive ...	2,644	...
														Tools and Plant	59,026	...
														Suspense Account	701	...
														Share of collection charges	2,193	...
														Direct receipts after deducting refunds of revenue.	13,116	...
														Irrigation share of Land Revenue	...	3,722
														Four per cent. on 9/10ths of receipts from sale of occupancy rights in lands.	...	1,52,275
														Total, Northern Hyderabad Canals District	1,30,174	1,56,948
														CENTRAL HYDRABAD CANALS DISTRICT.		
														Reinwah Loop—Maintenance and Repairs.	696	...
														Alibhar Kacheri Canal—Maintenance and Repairs.	5,938	...
														Marak Great Canal do. do.	13,997	...
														Sarrazwah do. do.	4,557	...
														Establishment. { Direction and Accounts, Executive ...	958	...
														Tools and Plant	4,801	...
														Suspense Account	10	...
														Cost of collection charges	44	...
														Direct Receipts	9,575	...
														Irrigation share of Land Revenue	...	400
														Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands.	...	95,743
														Total, Central Hyderabad Canals District	40,516	96,148
														Carried over	15,57,442	7,15,564

General Abstract of Financial Results of Irrigation

	MAJOR WORKS—PRODUCTIVE WORKS.										MINOR WORKS AND NAVIGATION— AND REVENUE ACCOUNTS					
	In operation.									Under Con- struction.	Total.	In operation.				
	Desert Canal.	Unharwáh	Begári Canal.	Mahl- wáh.	Eastern Nára Works.	Jámráo Canal.	Dád Canal.	Nas- rat Canal.	Nanlakhi Canal.	Šukkur Canal.		Ghár Canal.	Sattah Canal.	Alibhar Kacheri Canal.	Marak Great Canal.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			
<i>Net profit after paying of interest—continued.</i>																
To end of year	18,81,244	14,43,560	64,18,509	-97,779	27,28,022	-2,55,232	-5,20,814	1,27,166	-1,213	1,12,23,453	...	...	...	...

Works in Sind for, and to end of, 1909-1910—concluded.

WORKS FOR WHICH CAPITAL ARE KEPT.				Grand Total.	MINOR WORKS AND NAVIGATION—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.							Total.	Expenditure on and Receipts from Agricultural Works for which neither Capital nor Revenue Accounts are kept.		
Sur-fraswah.	Fuleli Canal.	Hassan-all Canal.	Total.		Shikarpur Canals District.	Western Nara District.	Karachi Canals District.	Survey and Construction District.	Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleli Canals District.		Expenditure.	Receipts.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			
												Brought over ...	15,67,418	7,15,561	
												FULELI CANALS DISTRICT.			
												Extending Jamsharo Bund to Sepki Main.	9,198	...	
												Constructing Sang Dadko Loop ...	69,994	...	
												Closing breaches on the Sang Bund...	2,151	...	
												Maintenance of Hajipur, Sang, Budka Taker and Dadko Bunds including Katian loop.	13,409	...	
												Constructing Loop to Gidu Bander Bund.	5,501	...	
												Katian Loop to Hajipur Bund ...	8,171	...	
												River Bunds ...	17,998	...	
												Needles in sluices of Hajipur and Budka Bunds.	394	...	
												Ghailian Bund ...	470	...	
												Jamsharo Bund ...	1,990	...	
												Sluices in Sang Bund ...	874	...	
												Gidu Bander Bund ...	1,389	...	
												Fuleli Canal ...	74,842	...	
												Establishment. { Direction and Accounts.	10,243	...	
												Executive ...	34,866	...	
												Has s a n a l i } Extensions and Improvements.	817	...	
												Canal. { Maintenance and Repairs.	1,583	...	
												Tools and Plant ...	1,982	...	
												Suspense Account ...	315	...	
												Share of collection charges ...	24,972	...	
												Direct Receipts ...	...	201
												Irrigation share of Land Revenue ...	...	2,50,250
												Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands.	...	22	
												Total, Fuleli Canals District ...	2,80,423	2,50,473	
												JAMRAO CANAL DISTRICT			
												Direct Receipts ...	...	1
												EASTERN NARA DISTRICT.			
												Share of collection charges ...	344	...	
												Direct Receipts ...	...	2
												Irrigation share of Land Revenue ...	...	3,444
												Total, Eastern Nara District ...	344	3,446	
												Grand Total ...	15,33,316	8,89,494	

V. C. FRENCH,
Deputy Accountant General, Public Works, Bombay.

Statement showing Actual Receipts during 1909-1910 on account of Irrigation Share of Land Revenue from Canals in Sind.

				Gross Irrigation Share of Land Revenue.	Deduct $\frac{3}{8}$ th of Cash Refunds of Land Revenue in the Civil Department.	Net Irrigation Share of Land Revenue.
MAJOR WORKS.						
<i>Productive Works.</i>				Rs.	Rs.	Rs.
Desert Canal	...	...	...	2,42,473	.....	2,42,473
Unharwáh	...	...	...	1,93,344	.....	1,93,344
Begári Canal	...	...	...	5,36,098	.....	5,36,098
Mahiwáh	...	...	...	2,02,784	.....	2,02,784
Eastern Nára Works—						
Mithrao Canal	...	...	...	2,90,889	.....	2,90,889
Nára Canal	...	...	...	59,046	.....	59,046
Thar do.	...	...	...	1,45,470	.....	1,45,470
Khipra Canal	...	...	...	8,743	.....	8,743
Hiral Canal	...	...	...	48,101	.....	48,101
Hiran do.	...	...	...	2,778	.....	2,778
Nára Supply Channel	...	...	...	9,290	.....	9,290
				5,64,317	.....	5,64,317
Jámrao Canal	...	...	...	5,35,784	.....	5,35,784
Dád Canal	...	...	...	2,61,853	.....	2,61,853
Nasrat Canal	...	...	...	2,57,571	.....	2,57,571
Total, Major Works				27,94,224	.....	27,94,224
MINOR WORKS.						
<i>Works for which Capital and Revenue Accounts are kept.</i>						
Sukkur Canal	...	...	...	2,61,001	.....	2,61,001
Ghár Canal	...	...	...	7,33,233	.....	7,33,233
Sattah Canal	...	...	...	35,906	.....	35,906
Alibhar Kacheri Canal	...	...	...	25,553	.....	25,553
Márah Great Canal	...	...	...	1,42,193	.....	1,42,193
Sarfrazwáh	...	...	...	57,348	.....	57,348
Fuleli Canal	...	...	...	7,57,095	.....	7,57,095
Hassanali Canal	...	...	...	42,238	.....	42,238
Total				20,54,567	.....	20,54,567
<i>Works for which only Revenue Accounts are kept.</i>						
Shikárpur Canals District	...	...	...	4,65,961	.....	4,65,961
Western Nára District	...	...	...	9,12,895	.....	9,12,895
Karáchi Canals District	...	...	...	4,45,449	.....	4,45,449
Northern Hyderabad Canals District	...	...	...	2,13,691	.....	2,13,691
Central Hyderabad Canals District	...	...	...	3,13,312	.....	3,13,312
Fuleli Canals District	...	...	...	54,120	.....	54,120
Total				24,05,428	.....	24,05,428
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>						
Begári Canals District—						
Kashmore Bund	...	...	..	14,045	.....	14,045
Shikárpur Canals District—						
Sukkur Begári Bund	...	...	...	21,030	.....	21,030
Kasimpur Bund	...	...	...	3,532	.....	3,532
Ghár Canals District—						
Ghár Bund	...	...	...	4,398	.....	4,398
Western Nára District—						
Nára Bunds	...	...	...	10,700	.....	10,700
Karáchi Canals District—						
Bunds Right and Left Banks	...	..	..	19,619	.....	19,619
Total				73,324	.....	73,324
Total, Minor Works				45,33,319	.....	45,33,319
GRAND TOTAL				73,27,543	.....	73,27,543

STATEMENT I—E.

STATEMENT

Statement of Area irrigated by Irrigation Works

Name of Canal.	AREA IRRIGATED IN ACRES.			NET AREA IRRIGATED AFTER DEDUCTING AREA IN WHICH REMISSIONS WERE GRANTED.			NUMBER OF DAYS THE CANAL WAS IN FLOW.	
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.
	2	3	4	5	6	7	8	9
MAJOR WORKS.								
PRODUCTIVE WORKS.								
Shikárpur Canals District. { Mahiwáh	46,893	38,138	85,031	46,634	38,034	84,668	<i>Indus Right</i>	
Egári Canals District. { Desert Canal	124,020	57,471	181,491	110,958	50,565	161,523		145
{ Unharwáh	58,143	31,386	84,529	52,140	30,490	82,630		166
{ Begári Canal	170,909	111,633	282,544	170,381	110,319	280,700		192
MINOR WORKS.								
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.								
Ghár Canals District. { Sukkur Canal	74,301	57,506	131,807	74,232	55,692	129,924	108	123
{ Ghar Canal	206,795	134,047	340,842	199,895	129,014	328,909		135
Karáchi Canals District. Satta Canal	15,471	1,293	16,764	15,270	1,133	16,403		129
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.								
Shikárpur Canals District. { Canals in Rohri... ..	35,567	29,388	64,955	35,386	29,323	64,709		104
{ Sind Canal	53,371	28,351	81,722	52,069	28,324	80,393		119
{ Rajib Canal	6,117	4,410	10,527	6,089	4,410	10,499		105
{ Chitti Canal	5,954	6,339	12,293	5,934	6,339	12,273		94
{ Garang Canal	2,416	3,326	5,742	2,416	3,326	5,742		98
Western Nara District. { Western Nara	198,740	123,995	322,735	190,393	118,539	308,932		133
{ New Feeder to Western Nara								
{ Pritchard Canal								
{ Marvi								
{ Dadu Canal								
{ Phitta Canal	2,913	2,091	5,004	2,808	2,085	4,893		124
{ Dadu Canal	7,760	2,121	9,881	7,737	2,102	9,839		130
{ Phitta Canal	4,827	822	5,649	4,813	755	5,568		96
{ Chario Wahur (Aral)	7,355	14,662	22,017	6,465	13,562	20,027		99
{ Canals North of Kotri	8,810	5,175	13,985	8,405	5,004	13,409		121
{ Wahurwah	904	1,819	2,723	805	1,795	2,600		107
Karáchi Canals District. { Kalri	16,036	3,572	19,608	15,940	3,364	19,304		148
{ Pinyári	80,628	6,986	87,614	78,048	6,539	84,587		232
{ Baghar	29,740	10,620	40,360	28,550	9,070	37,620		352
MAJOR WORKS.								
PRODUCTIVE WORKS.								
Jámráo Canal District. Jamráo Canal	133,713	46,224	179,937	129,741	45,574	175,315	183	175
Northern Hyderabad Canals District. { Dád Canal	91,071	22,886	113,957	90,543	22,721	113,264		108
{ Nasrat Canal	71,901	15,481	87,382	70,417	13,477	83,894		111
Eastern Nára District. { Mithráo Canal	82,931	20,412	103,343	78,229	20,037	98,266	152	120
{ Thar Canal	46,192	3,886	50,078	45,317	3,848	49,165		133
{ Hiral Canal	12,800	3,045	15,845	12,448	3,045	15,493	153	151
{ Khipra Canal	4,379	1,257	5,636	4,379	1,257	5,636		138
MINOR WORKS.								
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.								
Central Hyderabad Canals District. { Alibhár Kacheri	11,768	285	12,053	11,768	285	12,053		114
{ Múrak	56,770	3,311	60,081	56,687	3,311	59,998		115
{ Sarfraz	32,665	1,205	33,870	32,665	1,205	33,870		117
Fuleli Canals District. { Fuleli	321,738	49,105	370,843	318,972	48,799	367,771	183	162
{ Hassanali	17,440	345	17,785	17,259	345	17,604		130
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.								
Northern Hyderabad Canals District. { Meháb	12,391	395	12,786	12,360	395	12,755		99
{ Nauláki	43,399	5,601	49,000	43,399	5,586	48,985		113
{ Dámbo	12,787	2,477	15,264	12,787	2,477	15,264		98

I-E.

in Sind during the year 1909-1910.

AVERAGE DISCHARGE IN CUBIC FEET PER SECOND.				AREA IRRIGATED PER CUBIC FOOT PER SECOND.				Δ = DEPTH OF WATER USED ON AREA IRRIGATED.		Remarks.
At Head.		Utilized.		At Head.		Utilized.		Kharif.	Rabi.	
Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.			
10	11	12	13	14	15	16	17	18	19	
C. ft.	C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Feet.	Feet.	
<i>Bank Division.</i>										
1,812		1,812		47		47		5.0		
2,873		2,873		56		56		5.2		
1,449		1,449		57		57		5.8		
2,628		2,628		107		107		3.6		
2,025 | 282		2,025 | 282		36 | 197		36 | 197		5.7 | 1.2		
4,273		4,273		77		77		3.5		
646		646		25		25		10.3		
1,670		1,670		39		39		5.3		
1,330		1,330		60		60		4.0		
323		323		32		32		0.6		
296		296		41		41		4.6		
96		96		60		60		3.4		
5,297		5,226		58		59		4.5		
138		193		95		35		7.1		
209		209		47		47		5.5		
99		99		56		56		3.4		
+ 61		+ 61								
2,000		2,090		14		14		14.1		
- 662		- 662								
621		621		22		22		11		
138		138		19		19		11.3		
783		783		25		25		11.9		
3,270		3,270		26		26		18.0		
5,521		5,521		7		7		100.5		
<i>Bank Division.</i>										
2,173 | 1,811		2,170 | 1,811		60 | 25		60 | 25		6.1 | 14.0*		
3,844		3,844		23		29		7.4		
1,591		1,591		53		53		4.2		
1,964 | 355		1,964 | 355		40 | 56		40 | 56		7.6 | 4.3		
1,349		1,349		36		36		10.2		
132 | 107		132 | 107		91 | 22		94 | 28		3.3 | 10.8		
57		87		65		65		4.2		
365		366		33		33		6.9		
1,167		1,167		51		51		4.5		
816		816		42		42		5.6		
7,165 | 1,729		6,568 | 1,089		45 | 28		49 | 45		7.5 | 7.2		
660		660		27		27§		9.6		
200		200		64		64		3.1		
1,835		1,835		27		27		8.4		
323		323		47		47		4.2		

The high Δ is due to the fact that the average discharge have been calculated for a much longer period than four months of the abkalani as the canals were still flowing. The high Δ is due to a large quantity of water running to waste into the sea.

*The high rabi Δ is partly due to 74,828 acres of cotton, a kharif crop being watered for a few months in the rabi season.

§The duty of water on Hassanali works out to 27 acres per cubic foot, but it would be about 30 or 31 if the wastage on the canal on dhunds and depressions be deducted from the actual discharges. As this is not known no deductions have been made. It may approximately be 60 to 100 cusecs.

STATEMENT II-E.

Statement showing Incidence of Working Expenses on Assessed Revenue on Canals in Sind during the year 1909-1910.

Name of Canals.	Average discharge of the year at Canal Head in Cubic feet per Second.	WATER-RATE ASSESSED, DURING 1909-1910.					Gross Assessed Revenue from all sources.	Working Expenses, Direct and Indirect.	Acres irrigated during the year 1909-1910.	WORKING EXPENSES.			90 PER CENT. OF NET CONSOLIDATED ASSESSMENT.		TOTAL WATER-RATE DIRECT AND INDIRECT.		
		Occupiers.	Owner's.	Total, Direct.	Indirect.	Total, Direct and Indirect.				Per cent. on Gross Revenue.	Per Acre irrigated.	Per Cubic foot per Second of discharge at Canal Head.	Per Acre irrigated.	Per Cubic foot per Second of discharge at Canal Head.	Per Acre irrigated.	Per Cubic foot per Second of discharge at Canal Head.	
1	2	3	4	5	6	7	8	9	10*	11	12	13	14	15	16	17	
MAJOR WORKS.																	
<i>Productive Works.</i>																	
Shikarpur District. Canals	Mabiwah ...	1,812	1,044	...	1,044	2,06,290	2,07,334	2,12,150	54,286	78,200	25'60	'60	30'00	2'69	111'32	2'65	114'42
Begari Canals District.	Desert Canal ...	2,873	91,753	...	91,753	2,34,311	2,26,064	2,37,586	1,28,975	177,808	39'37	'73	44'90	1'95	80'97	1'84	114'01
	Unharwah ...	1,449	247	...	247	1,83,754	1,84,001	1,84,063	39,413	79,443	21'36	'60	27'21	2'23	124'92	2'32	127'37
	Begari Canal ...	2,623	32,119	...	32,119	5,34,534	5,66,053	5,69,404	1,20,127	230,732	21'10	'52	45'71	2'79	200'18	2'45	225'62
Jamrao Canal District.	Jamrao Canal ...	1,996	1,447	...	1,447	5,27,384	5,28,831	5,47,824	3,05,268	174,105	55'72	1'75	152'94	2'86	244'99	3'04	284'95
Northern Hyderabad Canals District.	Dad Canal ...	3,844	2,847	...	2,847	2,61,717	2,64,564	2,68,422	1,05,356	107,871	39'25	'98	27'41	2'57	66'51	2'45	68'83
	Nasrat Canal ...	1,591	138	...	138	2,61,782	2,61,920	2,64,046	86,087	84,055	32'60	1'02	54'11	3'03	159'32	3'11	164'65
Western Nara District.	Mithrao Canal ...	1,254	509	...	509	2,86,535	2,87,044	2,90,459	84,601	100,290	29'16	'84	67'46	2'89	223'23	2'86	228'90
	Thar Canal ...	1,349	1,502	...	1,502	1,43,667	1,45,169	1,48,910	25,949	48,592	17'43	'53	19'24	3'13	106'30	2'99	107'61
	Eastern Nara ...	...	684	...	684	79,469	80,153	92,485	78,081	49,027	84'43	1'59	...	1'68	...	1'63	...
	Hiral Canal ...	120	...	...	...	43,601	43,601	44,323	16,659	15,329	37'59	1'09	138'82	2'75	351'57	2'84	363'34
Total, Major Works ...		...	1,32,290	...	1,32,290	27,63,044	28,95,334	29,50,272	10,44,832	1,144,952	35'41	0'91	...	2'61	...	2'53	...
MINOR WORKS.																	
<i>Works for which Capital and Revenue Accounts are kept.</i>																	
Ghar Canals District.	Sukkur Canal ...	2,307	1,201	...	1,201	2,60,027	2,61,628	2,64,323	83,461	89,970	31'58	'93	36'18	3'00	112'37	2'90	113'41
	Ghar Canal ...	4,273	1,276	...	1,276	7,41,710	7,42,986	7,53,533	2,14,351	230,333	28'45	'93	50'16	3'33	171'83	3'22	173'88
Karachi Canals District.	Satta Canal ...	646	66	...	66	38,387	38,455	39,240	26,972	16,402	68'48	1'64	41'60	2'33	63'70	2'34	59'53
	Alibhar Kacheri Canals District.	366	422	...	422	26,115	26,537	26,766	6,859	12,017	25'63	'57	18'74	2'84	69'08	2'21	72'51
Central Hyderabad Canals District.	Marak ...	1,167	2,355	...	2,355	1,42,635	1,44,990	1,45,444	35,723	59,820	24'56	'60	30'61	2'61	119'54	2'42	124'24
	Sarfraz ...	816	2,077	...	2,077	56,528	58,505	59,312	21,504	33,771	36'26	'64	26'35	2'01	67'69	1'74	71'82
Fuleli Canals District.	Fuleli Canal ...	4,612	29,484	...	29,484	7,41,374	7,70,856	7,83,550	2,70,990	368,464	34'58	'74	53'76	2'39	158'27	2'10	167'14
	Hassanali Canal ...	660	458	...	458	43,496	44,154	45,065	25,976	17,750	57'64	1'46	39'36	2'56	65'61	2'49	66'90
Total, Minor Works ...		...	37,739	...	37,739	20,50,474	20,88,213	21,17,223	6,85,743	826,527	32'39	0'83	...	2'79	...	2'53	...
Grand Total ...		...	1,70,029	...	1,70,029	48,13,518	49,83,547	50,67,495	17,30,675	1,971,479	34'15	0'88	...	2'68	...	2'53	...

* Note.—The figures of area given in this column are exclusive of Dubari cultivation.

STATEMENT III-E.

Statement of Quantity and Value of Crops irrigated in Sind during the year 1909-1910.

Description of Crops.	BEGÁRI CANALS DISTRICT.								
	Desert Canal.			Unharwáh.			Begári Canal.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	2	3	4	5	6	7	8	9	10
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif ...									
{ Rice ...	12,710	3,02,955	24	5,593	98,559	18	62,854	16,22,079	26
{ Jowári ...	71,147	25,10,693	35	19,966	6,57,145	33	77,459	22,23,454	29
{ Bájri ...	22,606	5,77,677	25	20,898	6,80,063	33	18,005	5,95,266	33
{ Cotton ...	53	4,164	78	23	1,855	80	18	884	49
{ Other crops ...	17,504	3,82,055	22	6,663	1,51,732	23	12,573	3,40,257	27
Total ...	124,020	37,77,544	30	53,143	15,89,354	30	170,909	47,81,940	28
Rabi ...									
{ Wheat ...	13,606	5,57,439	41	10,494	4,25,871	41	12,016	4,93,293	41
{ Barley ...	10	207	21	11	239	22	56	1,315	20
{ Oil-seeds ...	16,017	4,02,015	25	3,418	79,870	23	15,627	3,97,564	26
{ Other crops ...	27,838	9,38,945	36	17,463	4,90,742	28	83,936	14,47,791	17
Total ...	57,471	18,98,606	33	31,386	9,96,722	32	111,635	23,39,963	21
Total under both Heads ...	*181,491	56,76,150	31	84,529	25,86,076	31	†282,544	71,21,903	25

* Excludes Kharabo and uncultivated areas assessed by the Political Agent, Sibi, as under:—

Acres ...	Kharif.	Rabi.	Total.
...	2,989	3,918	6,907

† Excludes Kharabo and uncultivated areas assessed by the Political Agent, Sibi, as under:—

Acres ...	Kharif.	Rabi.	Total.
...	1,914	787	2,701

Description of Crops.	BEGÁRI CANALS DISTRICT—concluded.						SHIKÁRPUH CANALS DISTRICT.		
	Káshmor Bund.			Total.			Mahiwáh.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	11	12	13	14	15	16	17	18	19
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif ...									
{ Rice ...	150	2,779	18	81,307	20,26,372	25	9,476	1,93,313	20
{ Jowári ...	540	13,251	25	169,112	54,04,543	32	27,417	5,02,240	18
{ Bájri ...	1,414	34,153	24	62,923	18,87,159	30	9,244	1,74,423	19
{ Cotton ...	156	12,500	80	250	19,403	78	99	1,134	29
{ Other crops ...	1,343	26,376	20	38,083	9,00,420	24	717	21,637	30
Total ...	3,603	89,059	25	351,675	1,02,37,897	29	46,893	8,92,747	19
Rabi ...									
{ Wheat ...	2,730	84,516	31	38,846	15,61,119	40	25,969	6,43,693	25
{ Barley ...	35	727	21	112	2,488	22	161	2,520	16
{ Oil-seeds ...	484	8,418	17	35,546	8,87,867	25	4,003	72,003	18
{ Other crops ...	183	2,641	14	129,420	28,80,119	22	8,005	1,11,944	14
Total ...	3,432	96,302	28	203,924	53,31,593	26	38,138	8,30,160	22
Total under both Heads ...	7,035	1,85,361	26	555,599	1,55,69,490	28	85,031	17,22,907	20

STATEMENT III-E—continued.

Description of Crops.		SHIKÁRPUK CANALS DISTRICT—continued.								
		Canals in Rohri.			Sind Canal.			Rajib Canal.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	20	21	22	23	24	25	26	27	28	
		Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif ...	Rice ...	13,213	2,16,817	16	25,712	8,33,181	32	4,521	1,85,630	30
	Jowári ...	17,943	2,35,460	13	21,615	4,70,714	22	1,422	35,550	25
	Bájri ...	1,711	18,115	11	2,055	38,012	18	7	140	20
	Cotton ...	331	3,832	12	18	362	20	...	...	...
	Other crops ...	2,369	60,871	26	3,971	1,29,929	33	167	7,278	44
Total ...	35,567	5,35,095	15	53,371	14,72,198	28	6,117	1,78,598	29	
Rabi ...	Wheat ...	22,929	4,84,435	21	8,724	2,87,937	33	1,651	49,530	30
	Barley ...	158	2,002	13	28	578	21	4	100	25
	Oil-seeds ...	1,856	22,067	12	3,415	76,560	23	144	2,860	20
	Other crops ...	4,445	50,946	12	16,184	2,75,567	17	2,611	45,597	17
Total ...	29,388	5,59,450	19	28,351	6,40,642	23	4,410	98,087	22	
Total under both Heads ...	64,955	10,94,545	17	81,722	21,12,840	26	10,527	2,76,685	26	

Description of Crops.		SHIKÁRPUK CANALS DISTRICT—continued.								
		Chitti Canal.			Garang Canal.			Sukkur-Begári Bund.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	29	30	31	32	33	34	35	36	37	
		Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif ...	Rice ...	2,977	89,310	30	671	20,130	30	1,784	53,520	30
	Jowári ...	2,235	55,875	25	1,340	33,500	25	1,539	35,705	23
	Bájri ...	53	1,060	20	62	1,240	20	248	3,760	15
	Cotton ...	1	10	10	...	...	...	12	130	11
	Other crops ...	688	25,499	37	343	10,015	29	208	5,443	26
Total ...	5,954	1,71,754	29	2,416	64,885	27	3,791	98,558	26	
Rabi ...	Wheat ...	2,453	73,590	30	2,236	67,080	30	3,703	1,16,305	31
	Barley ...	5	125	25	...	...	...	7	147	21
	Oil-seeds ...	1,949	38,980	20	300	7,800	20	574	11,480	20
	Other crops ...	1,932	49,518	26	700	19,539	28	1,760	33,014	19
Total ...	6,339	1,62,213	26	3,326	94,419	28	6,044	1,60,946	27	
Total under both Heads ...	12,293	3,33,967	27	5,742	1,59,304	28	9,835	2,59,504	26	

STATEMENT III-E—continued.

Description of Crops.	SHIKÁRPUK CANALS DISTRICT—concluded.						GHÁR CANALS DISTRICT.			
	Kásimpur Bund.			Total.			Sukkur Canal.			
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	
1	38	39	40	41	42	43	44	45	46	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif ...	Rice ...	...	...	58,854	15,41,901	26	54,534	13,28,704	24	
	Jowári ...	342	5,130	15	73,853	13,74,174	19	15,559	4,62,582	26
	Bájri ...	2	30	15	13,382	2,36,780	18	441	7,680	17
	Cotton ...	1	15	15	402	5,488	14	4	100	25
	Other crops ...	13	396	22	8,481	2,61,068	31	3,763	1,87,118	50
	Total ...	363	5,571	16	154,472	34,19,406	22	74,301	19,26,184	26
Rabi ...	Wheat ...	568	8,372	15	68,233	17,30,942	25	17,470	3,89,349	22
	Barley ...	4	48	12	367	5,520	15	9	162	18
	Oil-seeds ...	29	412	14	12,360	2,32,162	19	6,634	1,20,716	18
	Other crops ...	174	2,110	12	35,811	5,88,235	16	33,393	3,55,388	10
	Total ...	775	10,942	14	116,771	25,56,859	22	57,506	8,65,615	15
Total under both Heads ...		1,138	16,513	15	271,243	59,76,265	22	131,807	27,91,799	21

Description of Crops.	GHÁR CANALS DISTRICT—concluded.									
	Ghár Canal.			Ghár Bunds.			Total.			
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	
1	47	48	49	50	51	52	53	54	55	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif ...	Rice ...	173,730	46,81,788	26	401	9,582	24	233,665	60,20,074	26
	Jowári ...	23,910	3,59,429	15	357	10,350	29	39,826	7,72,361	19
	Bájri ...	1,096	11,144	10	2	50	25	1,539	18,874	12
	Cotton ...	7	290	42	1	25	25	12	415	35
	Other crops ...	3,052	1,10,978	36	88	3,670	42	6,903	3,01,766	44
	Total ...	206,795	51,63,629	25	849	23,677	28	281,945	71,13,490	25
Rabi ...	Wheat ...	24,301	5,67,341	23	420	11,820	28	42,191	9,68,510	23
	Barley ...	58	547	9	...	...	...	67	709	10
	Oil-seeds ...	24,465	4,95,048	20	64	1,086	17	31,163	6,16,850	20
	Other crops ...	85,223	6,01,037	7	157	4,673	30	118,773	9,61,098	8
	Total ...	134,047	16,63,973	12	641	17,579	27	192,194	25,47,167	13
Total under both Heads ...		340,842	68,27,602	20	1,490	41,256	28	474,139	96,60,657	20

STATEMENT III-E—continued.

Description of Crops.	WESTERN NÁRA DISTRICT.			KARÁCHI CANALS DISTRICT.			INDUS RIGHT BANK DIVISION.			
	Canals and Bunds.			Canals and Bunds.			Total.			
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	
1	56	57	58	59	60	61	62	63	64	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif ... {	Rice ...	163,193	49,73,795	30	186,604	18,67,850	10	723,123	1,64,29,992	23
	Jowári ...	51,118	9,37,483	18	1,025	4,668	5	334,934	84,93,229	25
	Bájri ...	14,965	3,17,503	21	26,436	2,21,550	8	119,245	26,81,866	22
	Cotton ...	176	3,180	16	2	19	9	842	28,500	34
	Other crops ...	4,063	1,40,768	35	5,704	27,609	5	63,234	16,31,631	26
	Total ...	233,515	63,72,729	27	219,771	21,21,696	10	1,241,378	2,92,65,218	24
Rabi ... {	Wheat ...	42,716	9,92,429	24	169	1,774	10	192,155	52,54,774	27
	Barley ...	1,252	24,883	20	12,789	94,363	7	14,587	1,27,963	9
	Oil-seeds ...	37,214	5,46,203	15	7,899	24,493	3	124,182	23,07,575	19
	Other crops ...	70,702	8,49,511	12	15,669	68,552	4	370,375	53,47,515	14
	Total ...	151,884	24,13,026	16	36,526	1,89,182	3	701,299	1,30,37,827	19
Total under both Heads ...		385,399	87,85,755	23	256,297	23,10,878	9	1,942,677	4,23,03,045	22

Description of Crops.	JÁMBRÁO CANAL DISTRICT.			EASTERN NÁRA DISTRICT.						
	Jámbráo Canal.			Nára Supply Channel.			Eastern Nára.			
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	
1	65	66	67	68	69	70	71	72	73	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif ... {	Rice ...	968	26,397	27	...	...	4,092	85,880	21
	Jowári ...	3,197	26,943	8	175	2,625	27	344	13	
	Bájri ...	48,232	5,27,710	11	33	495	10,607	1,81,056	17	
	Cotton ...	74,828	35,81,845	48	29	435	7,541	4,42,803	59	
	Other crops ...	6,488	88,167	14	59	1,620	243	3,515	14	
	Total ...	133,713	42,51,062	32	296	5,175	22,510	7,13,598	32	
Rabi ... {	Wheat ...	32,452	7,39,197	23	3,954	94,896	24	7,770	1,88,321	24
	Barley ...	250	1,826	7	1	12	176	2,107	12	
	Oil-seeds ...	5,498	54,608	10	369	4,564	4,149	31,950	8	
	Other crops ...	8,024	89,959	11	852	8,352	3,206	36,121	11	
	Total ...	46,224	8,85,590	19	5,176	1,07,824	21	15,301	2,58,499	17
Total under both Heads...		179,937	51,36,652	29	5,472	1,12,999	21	37,811	9,72,097	26

STATEMENT III-E—continued.

EASTERN NARA DISTRICT—continued.										
Description of Crops.	Mithrao Canal.			Thar Canal.			Khipra Canal.			
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	
1	74	75	76	77	78	79	80	81	82	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif	Rice ...	66,597	14,69,163	22	42,298	10,31,023	24	...	...	...
	Jowári ...	141	1,876	13	24	281	12	1	9	9
	Bájrí ...	9,787	1,49,026	15	1,398	28,448	20	1,809	30,380	17
	Cotton ...	5,908	3,62,757	61	1,945	68,072	35	2,514	1,50,862	60
	Other crops...	498	18,472	37	527	12,365	23	55	274	5
	Total ...	82,931	20,01,294	24	46,192	11,40,189	25	4,379	1,81,525	41
Rabi	Wheat ...	16,150	3,89,789	24	1,289	27,779	22	468	10,771	23
	Barley ...	118	1,063	9	1	8	8	1	16	16
	Oil-seeds ...	786	6,263	8	669	4,011	6	772	6,170	8
	Other crops...	3,358	98,872	12	1,927	22,965	12	16	762	48
	Total ...	20,412	4,35,987	21	3,886	54,763	14	1,257	17,719	14
Total under both Heads	...	103,343	24,37,281	24	50,078	11,94,952	24	5,636	1,99,244	35

EASTERN NARA DISTRICT—concluded.										
Description of Crops.	Heran Canal.			Hiral Canal.			Total.			
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	
1	83	84	85	86	87	88	89	90	91	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif	Rice ...	16	295	18	...	...	113,003	25,86,361	23
	Jowári ...	...	...	...	17	217	385	5,352	14
	Bájrí ...	636	8,611	14	10,000	1,67,920	34,270	5,65,936	17	
	Cotton ...	153	9,671	63	2,453	1,45,816	20,543	11,80,416	57	
	Other crops...	13	753	58	330	12,546	1,725	49,545	29	
	Total ...	818	19,330	24	12,800	326,499	26	169,926	43,87,610	26
Rabi	Wheat ...	137	3,545	26	2,300	52,877	32,068	7,67,978	24	
	Barley ...	...	...	...	9	79	306	3,285	11
	Oil-seeds ...	289	2,265	8	549	4,403	7,583	59,626	8	
	Other crops...	18	1,247	69	187	6,607	9,564	1,14,926	12	
	Total ...	444	7,057	16	3,045	63,966	21	49,521	9,45,815	19
Total under both Heads	...	1,262	26,387	21	15,845	3,90,465	25	219,447	53,33,425	24

STATEMENT III-E—continued.

Description of Crops.		NORTHERN HYDERABAD CANALS DISTRICT.								
		Dad Canal.			Nasrat Canal.			Other Canals.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	92	93	94	95	96	97	98	99	100	
		Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif	Rice ...	10,972	2,62,573	23	427	6,865	16	3,691	55,710	15
	Jowári ...	24,462	6,06,552	24	28,938	3,78,772	13	48,177	6,27,969	13
	Bájrí ...	40,024	13,08,126	32	28,972	5,01,350	17	20,133	3,36,080	17
	Cotton ...	7,651	3,91,368	51	10,020	10,69,394	61	543	8,640	16
	Other crops ...	7,962	1,87,708	23	3,544	70,259	20	3,902	98,417	25
	Total ...	91,071	27,56,327	30	71,901	20,26,640	28	76,496	11,26,816	15
Rabi	Wheat ...	4,875	1,04,040	21	2,174	74,290	34	8,567	1,79,559	21
	Barley ...	580	9,423	16	21	1,320	62	249	3,388	14
	Oil-seeds ...	16,146	3,18,852	19	12,945	1,19,142	9	1,424	37,113	26
	Other crops ...	1,285	47,212	36	341	21,144	62	1,520	41,844	28
	Total ...	22,886	4,79,527	21	15,481	2,15,896	14	11,760	2,61,904	22
	Total under both Heads ...	118,957	32,35,854	28	87,382	22,42,536	26	88,256	13,88,720	16

Description of Crops.		NORTHERN HYDERABAD CANALS DISTRICT—concluded.			CENTRAL HYDERABAD CANALS DISTRICT.					
		Total.			Alibhar Kacheri.			Great Márák.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	101	102	103	104	105	106	107	108	109	
		Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif	Rice ...	16,090	3,25,148	23	526	8,942	17	2,041	64,983	32
	Jowári ...	101,577	16,13,293	16	716	18,094	25	1,810	28,375	16
	Bájrí ...	89,179	21,45,556	24	7,821	2,14,924	27	32,805	6,61,296	20
	Cotton ...	18,214	14,69,402	81	2,424	1,15,899	48	18,305	9,39,210	51
	Other crops ...	15,408	3,56,384	23	281	12,347	43	1,809	74,207	41
	Total ...	239,468	59,09,783	25	11,768	3,70,206	31	56,770	17,68,071	31
Rabi	Wheat ...	15,616	3,57,889	23	31	1,125	36	398	12,085	30
	Barley ...	850	14,131	17	...	...	...	...	...	...
	Oil-seeds ...	30,515	4,75,107	16	130	4,871	37	2,123	58,224	27
	Other crops ...	3,146	1,10,200	35	124	1,212	10	790	11,310	14
	Total ...	50,127	9,57,327	19	285	7,208	25	3,311	81,619	25
	Total under both Heads ...	289,595	68,67,110	24	12,053	3,77,414	31	60,081	18,49,690	31

STATEMENT III-E—continued.

Description of Crops.		CENTRAL HYDERABAD CANALS DISTRICT—concluded.								
		Sarfaz.			Other Canals.			Total.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	110	111	112	113	114	115	116	117	118	
		Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif	Rice ...	1,156	31,386	27	242	3,896	16	3,965	1,09,207	28
	Jowári ...	465	6,810	14	3,327	79,171	24	6,318	1,32,450	21
	Bájrí ...	22,478	3,01,332	13	91,793	14,82,705	16	154,897	26,60,257	17
	Cotton ...	7,454	2,58,372	34	37,060	15,10,239	43	65,243	29,28,720	45
	Other crops ...	1,112	37,547	34	5,940	2,56,810	43	9,142	3,80,911	42
Total ...	32,665	6,35,447	19	138,362	34,32,821	25	239,565	62,06,545	26	
Rabi	Wheat ...	383	10,688	27	3,879	1,36,572	35	4,691	1,60,470	34
	Barley ...	1	22	22	10	267	27	11	289	26
	Oil-seeds ...	307	6,640	21	5,106	1,51,553	30	7,666	2,21,288	29
	Other crops ...	514	17,003	33	5,512	1,42,804	26	6,940	1,72,334	25
Total ...	1,205	34,353	29	14,507	4,31,196	30	19,308	5,54,331	29	
Total under both Heads ...	33,870	6,69,805	20	152,869	38,64,017	25	258,873	67,60,926	26	

Description of Crops.		FULELI CANALS DISTRICT.					
		Fuleli Canal.			Hasanali Canal.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	119	120	121	122	123	124	
		Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Kharif	Rice ...	211,227	33,36,843	16	11,998	4,31,928	36
	Jowári ...	2,178	29,784	14	69	552	8
	Bájrí ...	83,244	11,90,499	14	4,894	58,723	12
	Cotton ...	17,524	4,65,234	27	72	1,723	24
	Other crops ...	7,565	2,39,879	32	407	10,344	25
Total ...	321,738	52,62,239	16	17,440	5,03,280	29	
Rabi	Wheat ...	13,233	3,00,095	23	36	1,296	36
	Barley ...	2,334	18,806	8	16	192	16
	Oil-seeds ...	18,688	2,79,498	15	214	2,568	12
	Other crops ...	14,820	4,17,698	28	79	2,050	26
Total ...	49,105	10,16,097	31	345	6,106	18	
Total under both Heads ...	370,843	62,78,336	17	17,785	5,09,386	29	

STATEMENT III-E—concluded.

Description of Crops.		FULELI CANALS DISTRICT—concluded.					
		Other Canals.			Total.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
1	125	126	127	128	129	130	
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif	Rice ...	10,883	3,16,138	29	284,108	40,84,909	17
	Jowári ...	184	2,335	13	2,431	32,671	13
	Bájri ...	8,740	1,09,455	12	96,878	13,58,682	14
	Cotton ...	761	10,181	13	18,357	4,77,143	25
	Other crops ...	374	9,760	26	8,346	2,59,983	31
Total ...	20,942	4,47,869	21	360,120	62,13,388	18	
Rabi	Wheat ...	1,094	31,736	29	14,363	3,33,127	23
	Barley ...	363	4,503	12	2,743	23,501	9
	Oil-seeds ...	1,095	11,696	10	19,997	2,93,762	15
	Other crops ...	1,441	36,727	25	16,340	4,56,475	28
Total ...	3,993	84,662	21	53,443	11,06,865	21	
Total under both Heads ...	24,935	5,32,531	21	413,563	73,20,253	18	

Description of Crops.		TOTAL, INDUS LEFT BANK DIVISION.			GRAND TOTAL FOR SIND.		
		Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
		1	131	132	133	134	135	136
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	
Kharif	Rice ...	367,134	71,32,022	19	1,090,257	2,35,62,014	22
	Jowári ...	113,908	18,10,709	16	448,842	1,03,03,938	23
	Bájri ...	423,456	72,58,141	17	542,701	99,40,007	19
	Cotton ...	197,185	96,32,526	49	198,027	96,61,026	49
	Other crops ...	41,109	11,34,990	28	104,343	27,66,621	27
Total ...	1,142,792	2,69,68,388	24	2,384,170	5,62,33,606	24	
Rabi	Wheat ...	99,190	23,58,661	24	291,345	76,13,435	26
	Barley ...	4,160	43,032	10	18,747	1,70,995	9
	Oil-seeds ...	71,259	11,04,391	15	195,441	34,11,966	17
	Other crops ...	44,014	9,43,894	21	414,389	62,91,409	15
Total ...	218,623	44,49,978	20	919,922	1,74,87,805	19	
Total under both Heads ...	1,361,415	3,14,18,366	23	3,304,092	7,37,21,411	22	

STATEMENT IV—E.

STATEMENT

Comparative Statement of Irrigation and Rainfall for the years

Civil District.	OF THE CIVIL DISTRICT.			WORKS SUPPLYING IRRIGATION.			Culturable Area commanded by the Irrigation Works in column 6 in Acres.
	Total Area in Acres.	Culturable Area in Acres.	Cultivated Area in Acres.	No.	Name.		
1	2	3	4	5	6		7
	Acres.	Acres.	Acres.				Acres.
Khelat ...	569,374	569,374	89,827	1	Desert Canal		101,498
				2	Begári Canal		180,000
					Total ...		281,498
Upper Sind Frontier District.	1,651,080	1,230,491	502,264	3	Desert Canal		287,492
				4	Unharwáh		214,056
				5	Begári Canal		416,887
				6	Kashmor Bund		52,000
				7	Sukkur Canal		51,681
				8	Ghár Canal		53,884
				9	Sind Canal		1,421
					Total ...		1,056,921
Sukkur Collectorate.	3,574,778	1,914,278	367,923	10	Mahiwáh		185,118
				11	Begári Canal		79,344
				12	Sind Canal		185,226
				13	Canals in Rohri		141,710
				14	Garang Canal		8,900
				15	Rajib Canal		12,400
				16	Chitti Canal		15,400
				17	Bunds in Rohri ... ..		...
				18	Sukkur Canal		55,356
				19	Ghár Canal		942
				20	Ghár Bunds		1,984
				21	Sukkur-Begári Bund		19,268
				22	Kásimpur Bund		5,000
				23	Nára Supply Channel		25,000
					Total ...		685,648
Lárkána Collectorate.	5,051,043	1,171,274	771,942	24	Begári Canal		338
				25	Sind Canal		97
				26	Sukkur Canal		81,246
				27	Ghár Canal		454,819
				28	Ghár Bunds		920
				29	Western Nára		462,669
				30	New Feeder to Western Nára		2,600
				31	Pritchard Canal		19,583
				32	Wahur Wah		3,988
				33	Marvi Wah		10,459
				34	Nára Bunds		7,881
				35	Dádu Canals		87,069
				36	Phitta Canal		22,237
				37	Manchar		40,909
				38	Aral		26,884
					Total ...		1,171,694
Karachi Collectorate.	5,489,613	1,581,494	356,737	39	Other Canals (Mulchand)		14,600
				40	Canals north of Kotri		18,331
				41	Kalri		33,800
				42	Baghar		104,800
				43	Uchito		41,920
				44	Other Canals, Tatta, &c.		22,700
				45	Pinyári		136,411
				46	Canals in Mirpur Bathoro		89,330
				47	Canals in Sujáwal		19,735
				48	Canals in Jati		5,500
				49	Sattah		61,102
				50	Khanto		30,247
				51	Kokawari		43,478
				52	Canals in Sháhbandar		12,480
				53	Bunds, Right Bank		8,900
				54	Bunds, Left Bank		15,664
				55	Bunds, north of Kotri		1,057
					Total ...		610,055

IV-E.

1908-1909 and 1909-1910 in Sind.

Area at present estimated as annually irrigated by the works specified in column 8.	AREA IRRIGATED IN ACRES.						RAINFALL.		Remarks.
	1908-1909.			1909-1910.			1908-1909.	1909-1910.	
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.			
	9	10	11	12	13	14	15	16		17
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Ins. cts.	Ins. cts.	Excludes Kharābo and uncultivated areas assessed as under : Kharif. Rabi. Total. Acres. Acres. Acres. Desert Canal... 2,989 3,918 6,907 Begari Canal... 1,914 787 2,701
65,000	29,490	30,957	60,447	33,193	24,634	57,827	4 11	1 45	
30,000	23,905	9,699	33,604	22,176	3,788	25,964	4 11	1 45	
95,000	53,395	40,656	94,051	55,369	28,422	83,791			
130,000	85,447	45,228	130,675	90,827	32,837	123,664	3 68	2 61	
70,000	56,869	28,404	85,273	53,143	31,386	84,529	3 03	2 35	
200,000	127,891	102,931	230,822	116,320	88,214	204,534	3 10	2 22	
4,000	4,260	4,761	9,021	3,603	3,432	7,035	4 35	3 55	
36,587	10,635	13,709	24,344	11,053	9,504	20,557	2 45	3 15	
20,185	11,170	9,534	20,704	10,672	2,294	12,968	2 45	3 15	
50	154	...	154	35	...	35	...	...
460,822	296,426	204,617	501,043	286,653	167,667	453,320			
121,880	55,182	44,244	99,426	46,893	38,138	85,031	3 46	2 40	
51,948	36,277	23,473	59,750	32,264	19,633	51,897	3 10	2 22	
124,370	76,994	38,438	115,432	53,336	28,342	81,678			
94,468	44,781	33,164	77,945	35,567	29,388	64,955			
7,350	3,007	4,942	7,949	2,416	3,323	5,742	3 46	2 40	
11,320	7,295	4,891	12,186	6,117	4,410	10,527			
14,300	7,132	8,257	15,389	5,954	6,399	12,293			
...	
46,149	22,887	15,579	38,466	22,594	15,364	37,958	2 16	2 79	
550	179	213	392	292	87	329	2 16	2 77	
1,684	537	515	1,052	646	510	1,156	3 16	2 77	
17,000	6,302	8,907	15,209	3,791	6,044	9,835	3 46	2 40	
4,000	650	2,469	8,119	363	775	1,138	3 46	2 40	
23,000	440	14,528	14,968	296	5,176	5,472	...	...
518,023	261,663	199,615	461,278	210,529	157,432	368,011			
150	41	...	41	149	...	149	3 10	2 22	
10	...	12	12	...	9	9	...	...
72,334	42,115	32,556	74,671	40,654	32,638	73,292	3 06	1 34	
349,396	214,894	135,691	350,585	195,331	131,716	327,547	1 64	1 79	
435	306	202	508	203	131	334	1 92	2 11	
325,102	207,049	124,333	331,382	189,338	120,469	309,807			
5,500	1,374	293	1,667	1,190	280	1,470			
12,435	9,592	3,197	12,789	8,212	3,246	11,458			
2,220	1,085	1,672	2,757	904	1,819	2,723			
5,195	3,590	2,337	5,937	2,913	2,091	5,004	3 40	4 30	
4,340	3,543	1,949	5,497	1,905	697	2,602			
10,650	8,024	4,424	12,448	7,760	2,121	9,881			
4,670	4,837	2,256	7,093	4,827	822	5,649			
10,443	2,948	13,180	16,128	3,099	8,302	11,401			
2,753	4,897	10,138	15,035	4,256	6,360	10,616			
805,663	504,210	332,240	836,450	461,241	310,701	771,942			
5,600	4,134	485	4,619	3,980	675	4,655	9 66	14 0	
16,000	6,913	6,504	13,417	8,310	5,175	13,985	8 40	4 30	
20,750	15,218	5,438	20,654	16,036	3,572	19,608	19 58	7 26	
42,600	27,659	13,920	41,579	29,740	10,620	40,360	19 27	6 54	
16,900	12,081	3,467	15,538	13,947	2,917	16,864	18 64	5 10	
19,000	11,935	5,549	17,484	9,270	2,559	11,829	19 72	6 66	
92,000	81,767	15,083	96,850	80,628	6,986	87,614	18 33	7 39	
22,600	11,257	995	12,252	12,204	1,063	13,267	19 14	7 14	
19,330	8,036	5,711	13,747	9,021	2,504	11,525	13 68	6 04	
4,000	1,721	1,232	3,003	2,458	1,020	3,478	23 98	8 99	
23,757	15,200	2,513	17,713	15,471	1,293	16,764	24 62	8 07	
7,790	4,204	723	4,927	4,923	403	5,331	25 26	7 16	
38,990	14,097	1,936	16,033	15,186	1,265	16,451	25 26	7 16	
2,500	1,746	132	1,877	1,954	143	2,097	25 26	7 16	
7,200	5,299	1,653	6,952	5,144	1,372	6,516	21 47	6 21	
11,940	3,232	922	4,154	3,784	809	4,593	20 52	7 33	
1,020	474	87	561	501	502	803	8 40	4 30	
351,977	224,970	66,390	291,360	232,862	42,878	275,740			

STATEMENT

Civil District.	OF THE CIVIL DISTRICT.			WORKS SUPPLYING IRRIGATION.		Culturable Area commanded by the Irrigation Works in column 6 in Acres.
	Total Area in Acres.	Culturable Area in Acres.	Cultivated Area in Acres.	No.	Name.	
1	2	3	4	5	6	7
	Acres.	Acres.	Acres.			Acres.
Thar and Párkar Collectorate.	6,064,800	2,270,887	575,645	56	Jámráo Canal	640,000
				57	Eastern Nára	275,500
				58	Mithráo Canal	400,100
				59	Heran Canal	9,000
				60	Khipra Canal	45,000
				61	Thar Canal	144,800
				62	Hiral Canal	88,300
				63	Great Máarak	68,500
				64	Gháro Mahmudo	40,300
				65	Kari Shumali	26,600
				Total ...	1,688,100	
Hyderabad Col- lectorate.	5,144,128	*3,091,938	999,684	66	Jámráo Canal	136,000
				67	Mehrabwáh	63,000
				68	Nasrat Canal	319,000
				69	Nauláki	179,000
				70	Dámbo	44,000
				71	Dad Canal	386,000
				72	Renwah	90,500
				73	Alibhar Kacheri	51,900
				74	Great Máarak	169,900
				75	Gháro Mahmudo	270,700
				76	Kari Shumali	185,500
				77	Nasirwah	127,300
				78	Sarfráz	139,400
				79	Other Canals	87,000
80	Fuleli Canal	1,487,500				
81	Hasanali Canal	84,000				
82	Other Canals	81,300				
				Total ...	3,802,000	
	27,544,816	11,829,736	3,663,972	Grand Total ...	9,295,911	

* Exclusive of Jágir figures]

IV-E—concluded..

Area at present estimated as annually irrigated by the works specified in column 8.	AREA IRRIGATED IN ACRES.						RAINFALL.		Remarks.
	1903-1909.			1909-1910.			1908-1909.	1909-1910.	
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Ins. cts.	Ins. cts.	
8	9	10	11	12	13.	14	15	16	17
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Ins. cts.	Ins. cts.	
213,000	155,417	13,911	169,328	110,789	36,590	147,379	4 76	6 41	
90,900	21,815	68,940	90,755	22,510	15,301	37,811	17 27	10 36	
143,500	102,961	8,190	111,151	82,931	20,412	103,343	12 44	8 81	
3,000	1,076	20	1,096	818	444	1,262	10 60	5 87	
8,000	3,123	957	4,080	4,379	1,257	5,636	17 34	8 0	
50,000	46,619	2,422	49,041	46,192	3,886	50,078	14 89	10 48	
15,700	14,860	959	15,809	13,800	3,045	15,845	16 23	13 57	
Areas are shown opposite Hyderabad Collectorate.	15,534	215	15,749	14,399	213	14,612	12 28	6 38	
	5,782	174	5,956	5,054	178	5,232	20 8	7 25	
4,456	83	4,539	4,050	131	4,181	20 8	7 59		
524,100	371,633	95,871	467,504	303,922	81,457	385,379			
45,000	32,181	6,426	38,607	22,924	9,634	32,558	...	...
13,000	11,722	2,460	14,182	12,391	395	12,786	2 98	3 54	
104,100	86,492	37,619	124,111	71,901	15,481	87,382	1 72	4 80	
54,000	45,619	9,833	55,452	43,399	5,601	49,000	1 10	4 52	
15,000	12,279	2,084	14,363	12,787	2,477	15,264	3 30	4 50	
145,400	93,401	26,289	119,690	91,071	22,886	113,957	6 35	5 87	
20,150	370	522	892	465	523	988	3 74	4 98	
18,300	11,237	318	11,555	11,768	285	12,053	7 65	6 36	
58,360	45,578	4,743	50,321	42,371	3,098	45,469	8 81	6 38	
68,200	63,031	9,360	77,391	63,501	8,470	71,971	14 56	7 25	
43,000	31,096	2,559	33,655	23,968	1,629	30,597	17 14	7 59	
30,250	35,006	3,547	38,553	31,690	2,587	34,277	17 14	6 49	
40,8000	34,621	3,412	37,933	32,665	1,205	33,870	18 3	6 79	
54,200	11,154	6,735	17,889	13,553	4,276	16,829	9 9	5 36	
40,000	330,473	49,692	380,165	321,738	49,105	370,843	18 52	10 42	
30,000	16,433	693	17,126	17,440	345	17,785	19 15	5 7	
30,000	15,369	3,326	19,195	16,962	3,318	20,280	19 32	5 46	
1,169,750	881,462	169,618	1,051,080	884,594	131,315	965,909			
3,925,340	2,593,759	1,109,007	3,702,766	2,384,170	919,922	3,304,092			

Statement of Highest Readings on Bukkur and Kotri Gauges from 1880 to 1909.

Year.	Bukkur.		Kotri.		Remarks.
	Date.	Highest reading.	Date.	Highest reading.	
		Feet.		Feet.	
1880	8th July ...	14.9	14th August ...	17.1	
1881	20th June ...	14.4	28th „ ...	17.2	
1882	7th August ...	17.6	17th „ ...	20.5	
1883	17th July ...	15.9	26th July ...	18.5	
1884	19th August ...	15.8	27th August ...	19.2	
1885	20th „ ...	15.4	4th September.	20.3	
1886	22nd July ...	16.3	19th August ..	20.3	
1887	18th August ...	16.6	2nd „ ...	19.7	
1888	29th „ ...	14.4	3rd September.	17.9	
1889	19th July ...	16.6	24th July ...	19.8	
1890	24th August ...	16.0	31st August ...	20.6	
1891	15th „ ...	14.8	20th „ ...	20.6	
1892	18th „ ...	16.8	27th „ ...	21.3	
1893	30th July ...	15.8	3rd „ ...	21.0	
1894	7th August ...	16.4	14th „ ...	22.6	
1895	24th „ ...	15.3	26th „ ...	18.3	
1896	7th „ ...	15.8	19th „ ...	19.4	
1897	28th „ ...	17.9	19th „ ...	22.0	
1898	18th July ...	13.3	21st July ...	18.5	
1899	27th „ ...	13.4	29th „ ...	18.6	
1900	16th August ...	14.5	24th August ...	19.3	
1901	15th „ ...	16.4	19th „ ...	19.5	
1902	1st „ ..	13.5	4th „ ...	15.9	
1903	22nd „ ...	17.1	27th „ ...	19.7	
1904	6th „ ...	15.8	22nd „ ...	18.7	
1905	20th July ...	16.7	25th July ...	19.1	
1906	22nd August...	16.6	29th August ...	20.9	
1907	20th „ ...	13.7	27th „ ...	19.4	
1908	12th „ ...	16.1	16th September.	22.9	
1909	28th „ ...	14.4	30th August ...	20.8	

H. F. BEALE, M. Inst. C.E.,
Superintending Engineer, Indus Left Bank Division.

No. W.-283 OF 1911.

PUBLIC WORKS DEPARTMENT,
OFFICE OF THE COMMISSIONER IN SIND.*Government House,
Karachi, 25th April 1911.*

Submitted to Government, together with the usual comparative statement, showing the area irrigated and the assessment thereon for the past three years as also the average of the five years ending with the preceding year.

Irrigation Revenue Report of the Province of Sind for 1909-10.

2. The inundation was a fair one; but it was late and unsteady, as may be judged from the fact that the river did not reach 13' (fair irrigation level) at the Bukkur gauge until late in the season, and did not maintain this level for more than 31 days as against 59 in the preceding year. The results recorded in the comparative statement show a marked decrease from the figures of the previous year amounting in the area of cultivation to 417,634 acres or 12.49 per cent. and in revenue to Rs. 6,21,454 or 7.03 per cent. In comparison, however, with the figures of 1907-08 the results show an increase of 5.57 per cent. in area and 12.26 per cent. in revenue. The figures are also below the average for the past five years, the decrease being 7.81 per cent. and .19 per cent. respectively. Compared with the figures for 1908-09, the decrease in the area under kharif is 8.09 per cent. and in that under rabi 27.70 per cent.

3. The results of each Division are shown separately in the subjoined table:—

Division.	As compared with 1908-1909.		As compared with the average.	
	Kharif.	Rabi.	Kharif.	Rabi.
	Acres.	Acres.	Acres.	Acres.
Right Bank	— 94,711	—151,010	—56,410	—40,759
Left Bank	—115,201	— 56,712	—59,066	—91,845

4. The most notable cases of decrease have occurred on the following canals:—

	Acres.
Desert Canal	4,753
Begari Canal	34,847
Mahiwah	14,299
Jamrao Canal	30,790
Dad Canal	7,184
Nasrat Canal	35,691
Nara Supply Channel	6,731
Eastern Nara	48,299
Mithrao Canal	9,030
Sukkur Canal	6,816
Ghar Canal	47,269
Marak Canal	4,944
Canals in Rohri	12,376
Sind Canal	27,084
Nara	32,266
Naulakhi	5,370
Pinyari	8,961

The Jamrao and the Mithrao Canals showed an increase in rabi, but taking both kharif and rabi together, there was a net decrease. On the Desert Canal and the Eastern Nara the deficiency took place in rabi only. In the case of the Nara, the decrease was divided equally between kharif and rabi, but on the Mahiwah,

the Marakwah, the Sind Canal and the canals in Rohri, kharif shows a greater decrease. On the remaining canals, the area under rabi cultivation showed a marked decrease. The late and unsteady inundation was the main cause of the decrease, but in the case of the Jamrao and the Nasrat Canals, silting and scarcity of labour were contributory factors to the decrease of cultivation.

5. The total amount of remissions during the year under report was Rs. 2,15,684 (Rs. 1,60,806 in kharif and Rs. 54,878 in rabi) as against Rs. 4,52,199 in the preceding year. Of this, deficiency of water was responsible for Rs. 1,22,040, as against Rs. 48,087 in 1908-09 and floods or erosion for Rs. 29,487 as against Rs. 2,38,374. The most important of the other causes which necessitated remission were blight (Rs. 3,748), insects (Rs. 17,855), locusts and rats (Rs. 13,292), kalar soil (Rs. 11,610) and concessions to colonists under Act III of 1899 (Rs. 7,261).

6. The amount of the outstanding balances at the end of the year was Rs. 6,41,225 (Rs. 2,95,836 in the Right Bank and Rs. 3,45,389 in the Left Bank Division), or Rs. 1,80,841 less than the amount outstanding at the end of the previous year. The subject is discussed in detail in the Land Revenue Administration Report, Part I.

7. The details of the more important items of expenditure on new works are given below :—

		Rs.
Desert Canal	... { Completion of the cross regulator on the Kandhkot Rajwah and of sluices over karias <i>ex</i> the Toj Rajwah and Fall Rajwah.	4,045
Sukkur Canal	... { Completion of several Rajwahs along the main canal and Kur Biro.	4,519
Canals in the Shikarpur District.	{ Construction of a new feeder to the Gudu Dhandh, raising and strengthening the banks of the Rajib, Chiti and Garang Canals and taking up land for widening the Sind Canal.	4,957
Canals in the Western Nara District.	{ Construction of a Public Works Inspection bungalow and additions and alterations to buildings and sluices.	5,874
Canals in the Karachi Canals District.	{ Survey of the Baghar Canal, excavation of a new head to the Khanto and construction of regulators over the Mirwah Nawab, Mehomedwah, Khatianwah, Hajiwah and Jamwah, and of arches and parapets to the sluices over certain zamindari karias.	28,226
Fuleli Canal	... { Construction of landhis for canal establishment on sluices over zamindari karias, etc.	5,091
Northern Hyderabad Canals District.	{ Completion of the new cut to the Naulakhi Canal at its 8th mile and of a new mouth to the Mehrabwah.	8,769

In addition to the above, Rs. 84,061 were spent during the year mainly on the extension of the Kandharowah, on the raising and strengthening of some portions of the Sukkur-Begari Bund and the construction of the railway diversion Robri Bund and other works, and Rs. 19,669 on extending the Jamshora Bund to Sapki Mian, constructing a bund between the Nasrat and the Naulakhi, on the detailed survey of the Rohri-Hyderabad Canal Project and on the Naulakhi Bhorti Bund.

8. The amounts spent on maintenance and repairs are as under :—

		1909-1910.	1908-1909.
		Rs.	Rs.
Right Bank	... ..	22,32,588	18,54,806
Left Bank	... ..	13,48,662	12,96,725

Of this, the actual cost of the clearance and repairs of 'Works' was as follows:—

				1909-1910.	1908-1909.
				Rs.	Rs.
Right Bank	...	...	...	13,89,107	10,30,141
Left Bank	...	...	...	6,60,010	6,52,027

9. The following table shows the area cultivated with the principal crops, as compared with the two previous years:—

				1909-1910.	1908-1909.	1907-1908.
				Acres.	Acres.	Acres.
Rice	...	...	...	1,090,257	928,983	913,107
Jowári	...	...	...	448,842	671,606	458,882
Bájri	...	...	...	542,701	618,373	565,766
Cotton	...	...	...	198,027	253,600	251,184
Wheat	...	...	...	291,345	318,976	233,949
Barley	...	...	...	18,747	33,238	12,468
Oil-seeds	...	...	...	195,441	367,719	196,042

With the exception of rice, which shows an increase on the figures of the past two years, there was a falling off in the area under all crops, notably under 'jowari' and 'oil-seeds.' The decrease in the area under the former of these two occurred principally on the Shikarpur, Ghar and Western Nara Canal system, and under the latter, everywhere except on the Jamrao Canal, on which the area so cultivated showed an increase of 1,132 acres. The contraction in the area under 'wheat' is observable chiefly on the Shikarpur Canals and the Western Nara, and under barley on the Karachi Canals. The Fuleli Canal is mainly responsible for the decrease in 'bájri,' and the Jamrao Canal for that in cotton.

A. D. YOUNGHUSBAND,
Commissioner in Sind.

STATEMENT.

Statement showing cultivated Area and Assessment of Government, Jâghîr and Foreign Lands for the year

Year.	GOVERNMENT LANDS.						
	Indus Right Bank Division.			Indus Left Bank Division.			Kharif.
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1907-1908 ...	1,056,160	288,122	1,344,282	1,026,172	145,695	1,171,867	2,082,332
1908-1909 ...	1,218,571	439,929	1,658,500	1,141,892	228,301	1,370,193	2,360,463
1909-1910 ...	1,125,671	310,893	1,436,564	1,035,450	172,369	1,207,819	2,161,121
Average of 5 years ending 1908-1909.	1,166,095	345,185	1,511,280	1,091,973	263,217	1,355,190	2,258,068
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1907-1908 ...	30,84,702	9,78,564	40,63,266	27,02,605	3,75,301	30,77,906	57,87,307
1908-1909 ...	35,41,061	13,90,188	49,31,249	31,52,430	5,41,004	36,93,434	66,93,491
1909-1910 ...	35,18,553	10,33,062	45,57,615	29,54,971	5,08,795	34,63,766	64,73,524
Average of 5 years ending 1908-1909.	34,20,127	11,14,235	45,34,362	28,02,067	6,58,494	34,60,561	62,22,194
	Ar						
	Assess						
Year.	FOREIGN LANDS.						
	Indus Right Bank Division.			Indus Left Bank Division.			
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
1907-1908 ...	45,173	16,955	62,128	.....	.....	.....
1908-1909 ...	53,449	35,976	89,425	.....	.....	.....
1909-1910 ...	55,501	24,988	80,489	.....	.....	.....
Average of 5 years ending 1908-1909.	63,227	27,751	90,978	.....	.....	.....
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1907-1908 ..	72,443	22,432	94,875	.....	.....	.....
1908-1909 ..	72,332	54,859	1,27,191	.....	.....	.....
1909-1910 ...	74,987	41,873	1,16,860	.....	.....	.....
Average of 5 years ending 1908-1909.	84,597	36,822	1,21,419	.....	.....	.....
	Ar						
	Assess						

1907-1908, 1908-1909 and 1909-1910, together with the average of the five years ending 1908-1909.

		JACHIR LANDS.								
Total.		Indus Right Bank Division.			Indus Left Bank Division.			Total.		
Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
<i>ea.</i>										
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
433,817	2,516,149	59,475	17,220	76,695	105,555	11,852	117,407	165,030	29,072	194,102
668,230	3,028,693	64,069	30,231	94,300	116,555	15,576	132,131	180,624	45,897	226,431
483,262	2,644,383	60,206	19,245	79,451	107,796	14,796	122,592	168,002	34,041	202,043
608,402	2,866,470	68,466	22,949	91,415	110,339	15,793	126,132	178,805	38,742	217,547
<i>ment.</i>										
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
13,53,865	71,41,172	22,978	6,993	29,971	48,587	5,311	53,898	71,565	12,304	83,869
19,31,192	86,24,683	22,083	10,720	32,803	48,585	5,449	54,034	70,668	16,169	86,837
15,47,857	80,21,381	20,094	6,414	26,508	46,715	5,793	52,508	66,809	12,207	79,016
17,72,729	79,94,923	24,822	7,804	32,626	62,471	21,761	84,232	87,293	29,565	1,16,858

GRAND TOTAL

Indus Right Bank Division.			Indus Left Bank Division.			Total.		
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
<i>ea.</i>								
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1,160,808	322,297	1,483,105	1,131,727	157,547	1,289,274	2,292,535	479,844	2,772,379
1,336,089	506,136	1,842,225	1,258,447	243,877	1,502,324	2,594,536	750,013	3,344,549
1,241,378	355,126	1,596,504	1,143,246	187,165	1,330,411	2,384,624	542,291	2,926,915
1,297,788	395,885	1,693,673	1,202,312	279,010	1,481,322	2,500,100	674,895	3,174,995
<i>ment.</i>								
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
31,80,123	10,07,989	41,88,112	27,51,192	3,80,612	31,31,804	59,31,315	13,88,601	73,19,916
36,35,476	14,55,767	50,91,243	32,01,015	5,46,453	37,47,468	68,36,491	20,02,220	88,38,711
36,13,634	10,87,349	47,00,983	30,01,686	5,14,588	35,16,274	66,15,320	16,01,937	82,17,257
35,29,546	11,58,861	46,88,407	28,64,538	6,80,255	35,44,793	63,94,084	18,39,116	82,33,200

R. E. GIBSON,
Assistant Commissioner in Sind.

*Revenue Report of Irrigation Works in
Sind for 1909-1910—Review of*

NO. W. I.—1361 OF 1911.

Public Works Department.

Bombay Castle,
30th June 1911.

Letter from the Superintending Engineer, Indus Right Bank Division, No. 5996, dated 12th December 1910.

Submits the Revenue Report of Irrigation Works in his Division for 1909-1910.

Letter from the Superintending Engineer, Indus Left Bank Division, No. 225, dated 13th January 1911.

Submits the Revenue Report of Irrigation Works in his Division for 1909-1910.

Memorandum from the Chief Engineer in Sind, No. C. E.—51, dated 17th January 1911.

Passes on the report to the Commissioner in Sind.

Memorandum from the Commissioner in Sind, No. W.—283, dated 25th April 1911.

Submits the above with remarks.

RESOLUTION.—The reports by the Officers in charge of the Indus Right and Left Bank Divisions, have been reviewed by the Commissioner in Sind and the general results summarised in the statement which accompanied his No. W.—283, dated 25th April 1911.

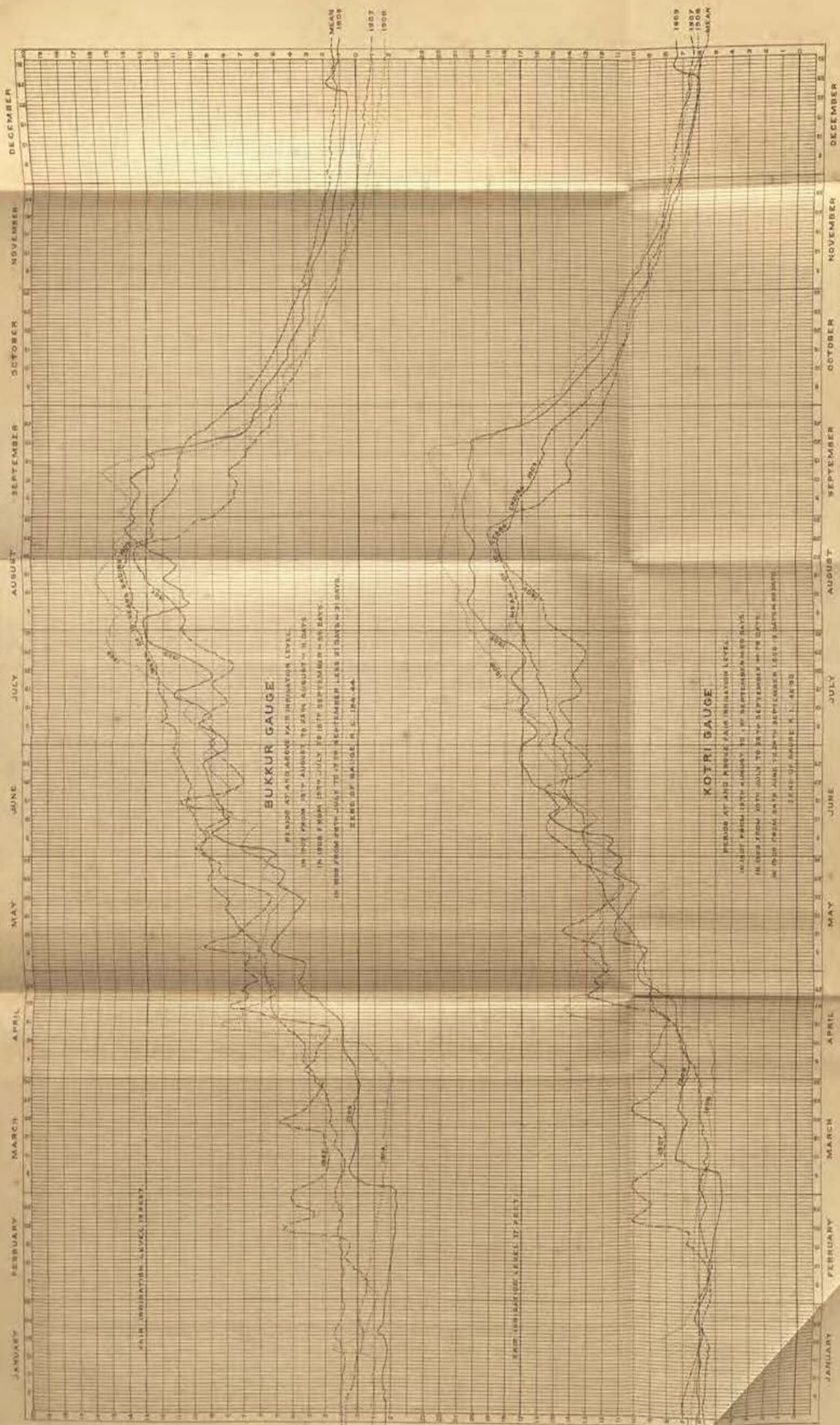
2. The total area irrigated for the year under review and for the previous five years is as follows :—

Years.	Area irrigated Acres.
1904-05	2,923,929
1905-06	3,348,008
1906-07	3,486,111
1907-08	2,772,379
1908-09	3,344,549
1909-10	2,926,915

3. The financial results of the year based on actual receipts for all the Irrigation Works in the province may be thus summarised :—

	Gross Revenue.	Working Expenses.	Net Revenue.
	Rs.	Rs.	Rs.
Major Works Productive	30,69,990	10,44,832	20,25,158
Minor Works and Navigation, Works for which both Capital and Revenue Accounts are kept.	21,53,178	6,85,743	14,67,435
Works for which Only Revenue Accounts are kept.	25,23,357	7,65,701	17,57,656
Agricultural Works	82,487	15,46,395	-14,63,908
Grand Total ...	78,29,012	40,42,671	37,86,341

HYDROGRAPH OF THE RIVER INDUS AT BUKKUR AND KOTRI



BUKKUR GAUGE

PEAKS AT AND ABOVE FATH MINIMUM LEVEL
 IN 1907 FROM 25th AUGUST TO 25th AUGUST - 10 DAYS
 IN 1908 FROM 25th JULY TO 25th SEPTEMBER - 60 DAYS
 IN 1909 FROM 25th JULY TO 25th SEPTEMBER LESS 21 DAYS - 39 DAYS
 ZERO OF GAUGE R. C. 100.44

KOTRI GAUGE

PEAKS AT AND ABOVE FATH MINIMUM LEVEL
 IN 1907 FROM 25th JULY TO 25th SEPTEMBER - 60 DAYS
 IN 1908 FROM 25th JULY TO 25th SEPTEMBER - 60 DAYS
 IN 1909 FROM 25th JULY TO 25th SEPTEMBER - 60 DAYS
 ZERO OF GAUGE R. C. 100.44

W. S. Durrant
 CHIEF ENGINEER,
 INDUS RIVER COMMISSION

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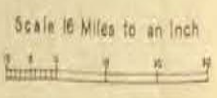
REFERENCES

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INDEX MAP
OF THE
INDUS LEFT & RIGHT BANK DIVISIONS

to accompany the Irrigation Revenue Report Sind for

1909-10



Note: Roads ruled as far as possible in straight lines

W. S. ...
M. Inst. C.E.
SUPERINTENDING ENGINEER.

INDUS LEFT BANK DIVISION

4. The totals of the Financial results for the year under review and the previous five years are as follows :—

	Gross Revenue.	Working Expenses.	Net Revenue.
	Rs.	Rs.	Rs.
1904-1905	64,64,186	32,51,540	32,12,646
1905-1906	83,56,644	35,11,716	48,44,928
1906-1907	84,13,600	32,67,609	51,45,991
1907-1908	68,80,022	36,35,960	32,44,062
1908-1909	80,39,031	37,65,951	42,73,080
1909-1910	78,29,012	40,42,671	37,86,341

The net profit Rs. 37,86,341 shows a falling off of nearly 5 lakhs as compared with the previous year, which had a very good inundation, while it shows an increase of nearly 5½ lakhs when compared with 1907-08 which was a year of bad inundation.

The Capital invested in Works for which Capital Accounts are kept, was up to the end of the year under review :—

	Rs.
Major Works	2,62,25,963
Minor Works	48,22,485
	<u>3,10,48,448</u>

The net Revenue for the year on the above capital expenditure amounted to Rs. 29,02,733 which is equal to 9.35 per cent. The percentages in the previous years were as follows :—

1906-07	11.21
1907-08	7.81
1908-09	9.54

The Major Works show a return of 6.93 against 6.60 of last year. The Minor Works—Capital show a return of 22.53 against 25.40 during the previous year.

5. The gross working expenses amounted to Rs. 40,42,671 against Rs. 37,65,951 in the previous year and the rate per acre was 1.38. For the three years previous to 1908-09, the amounts and rates were as follows :—

	Rs.	Rate per acre.
1907-08	36,35,960	1.31
1906-07	32,67,609	0.94
1905-06	35,11,716	1.05

The increase in this year was mainly due to heavy expenditure incurred on the Ghar and Fuleli Canals and Kashmor and Sukkur-Begari Bunds and on Bunds on the Left Bank in the Karachi Canals District.

6. The average net consolidated assessment per acre on Government land in the Right Bank Division shows an advance from 2.97 to 3.17. In the Left Bank Division, the amount was 2.87 against 2.70 of last year.

7. The estimated value of crops grown is Rs. 7,37,21,411 (£ 4,914,761) as compared with Rs. 6,69,51,263 (£ 4,463,417) the average of the previous five years.

8. The decrease in remissions described in paragraph 5 of Commissioner's Report is satisfactory ; the outstanding balances as described in paragraph 6 of the same report also show a decrease.

9. The inundation of the year under report was a fair one, but the high levels were late and unsteady, and hence, water could not be drawn out of the River by the canals to the extent they required. Nevertheless it is satisfactory that an area but slightly less than the average for the previous 5 years was obtained.

There were no serious breaches and the flood embankments were successfully maintained. The erosion of the Indus above Sukkur was not so active during the year under report as in the preceding year and the retired loop embankments opposite threatened places were constructed without trouble.

10. As directed in Government Resolution No. W. I.—1815, dated 22nd August 1910, the Superintending Engineers of both the Divisions have for the first time, included in the body of their Reports, an additional statement (Statement E). The information contained in these statements is grouped together as shown below :—

Total area irrigated by all classes of works.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated (Col. 2 ÷ Col. 1.)	Expenditure on Agricultural works (excluding the cost of surveys for special projects).	Rate of expenditure on Agricultural works per acre of area irrigated (Col. 4 ÷ Col. 1).	Total working expenses per acre of area irrigated including expenditure on Agricultural works (Col. 3+Col. 5.)
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
2,926,915	24,94,476	.85	14,90,774	.51	1.36

When calculating the working expenses per acre of irrigation for the whole of Sind, it is not sufficient to take an average of the working expenses of the individual canals, for in addition to maintaining canals for irrigation, river embankments have to be maintained to keep the floods from spreading over the land and this Statement E has been prepared to show both these items of maintenance.

It will be seen that for the Right Bank Division, the expenditure on Agricultural Works (the heading under which the flood embankments are classed) exceeded during the year under reference the cost of maintaining the canals, and averaged 0.82 Rs. per acre bringing up the total average for maintenance for this Division to 1.59 Rs. For the Left Bank Division, the average for Agricultural Works was 0.1 only and the total for maintenance 1.0 only. The great difference between the rates for the two Divisions is due to the fact that the Right Bank Division includes the flood embankments on both sides of the river ; with the exception of the comparatively small banks on the Left Bank of the river between Rohri and a little below Kotri, all the floods embankments are included in this Division. Although these flood embankments protect the country generally, including railways and roads, towns and villages, the whole cost of their maintenance is charged to Irrigation.

11. The work of preparation of projects for a Barrage across the Indus at Sukkur and for canals to give perennial irrigation to more than half the irrigable area of Sind was practically completed during the year.

12. Copies of the Report and of this Review should be forwarded to the Government of India and the Secretary of State.

R. T. HARRISON,
Under Secretary to Government.

[P. T. O.]

To

The Revenue Department, Secretariat.
 The Political Department, Secretariat.
 The Commissioner in Sind.
 The Director of Agriculture.
 The Settlement Commissioner and the Director of Land Records.
 The Chief Engineer in Sind.
 The Superintending Engineer, C. D.
 The Superintending Engineer, Indus Right Bank Division.
 The Superintending Engineer, N. D.
 The Superintending Engineer, S. D.
 The Superintending Engineer, Indus Left Bank Division.
 All Executive Engineers in Sind.
 The Accountant General, Bombay, (Civil Secretariat Building).
 The Accountant General, (Public Works Building).
 The Government of India.
 The Under Secretary of State. } By letter.

Class A.

Exd. C. S. P.

 No. _____ of 1911.

Copy forwarded for information and guidance to

TRIENNIAL IRRIGATION REVENUE REPORT

OF

SIND

FOR THE

TRIENNIUM ENDING 1910-1911.

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TRIENNIAL IRRIGATION REVENUE REPORT, SIND,
FOR 1908-09 TO 1910-11.

GENERAL REMARKS.

This is the fourth Triennial Revenue Report on Irrigation Works in Sind prepared in accordance with the orders of the Government of India conveyed in their Resolution No. 670—C.W.I., dated 6th June 1901, contained in Government Resolution No. W. I.—1396, dated 5th July 1901.

2. The report contains the statistical information of which it is important to maintain a permanent and continuous record. The statements show the working details and the results attained by each work in four successive triennial periods and brief general remarks are given at the bottom of the statements.

For details regarding the administrative work and progress of the Department, reference should be had to the Annual Administration Reports which are published separately.

3. The Irrigation Works in Sind for which both Capital and Revenue Accounts are kept are divided into two classes, called, (1) "Major Works" and (2) "Minor Works and Navigation."

The names Major and Minor do not correctly indicate the character of the works, for, under Minor Works, the largest canals in Sind are included. The Ghár and the Fuleli are classed as Minor Works though there are few larger canals in India and not many so big.

The Major Works are—

Productive.

1. Desert Canal.
2. Unhárwáh.
3. Begári Canal.
4. Mahiwáb.
5. Eastern Nára Works.
6. Jamrao Canal.
7. Dád Canal.
8. Nasrat Canal.
9. Naulakhi Canal.

and those classed as "Minor Works and Navigation" are—

Works for which Capital and Revenue Accounts are kept.

10. Sukkur Canal.
11. Ghár Canal.
12. Suttah Canal.
13. Alibhar Kacheri Canal.
14. Marak Great Canal.
15. Surfrazwáh.
16. Fuleli Canal.
17. Hasanali Canal.

Nos. 1 to 8 and 10 to 17 are in operation. No. 9, Naulakhi Canal, is held in abeyance, and therefore a detailed statement for it has not been prepared and embodied in this report.

The works of controlling the Indus, of maintaining the flood embankments and the small channels irrigating direct from the River through these embankments are included under the head "Minor Works and Navigation," as "Works for which only Revenue Accounts are kept" and "Works for which neither Capital nor Revenue Accounts are kept."

Readings on Bukkur and Kotri Gauges.

4. The number of days the gauge at Bukkur registered 13 feet or over in each triennium, and the number of days the gauge at Kotri registered 17 feet or over are shown in the following table :—

	1908	1909.	1910.	Average for			
				1908 to 1910.	1905 to 1907.	1902 to 1904.	1899 to 1901.
Bukkur days ...	59	31	23	38	60	33	35
Kotri do. ...	79	80	103	87	58	23	45

Thirteen feet has generally been considered the fair irrigating level for the inundation at Bukkur and 17 feet at Kotri, but as shown in the above table there has been a remarkable change, and during the triennium, the level of 17 feet at Kotri has been reached much more frequently than 13 feet at Bukkur. The change is believed to be due to the shortening of the course of the Indus between Bukkur and Kotri and is the subject of examination by the Indus Commission.

5. Of the three years, 1908 and 1910 were years of favourable inundation, while 1909 was an average one. For Lower Sind, for the three years, the results of the Kotri Gauges are the best series yet recorded, but for the whole of Sind, the triennial averages are as follows :—

Area under Irrigation.

Years.	Acres.
1899-1900 to 1901-02 ...	3,076,062
1902-03 to 1904-05 ..	3,191,548
1905-06 to 1907-08 ...	3,541,378
1908-09 to 1910-11 ..	3,503,926

Revenue.

Years.	Rupees.
1899-1900 to 1901-02 ...	60,35,446
1902-03 to 1904-05 ...	62,51,461
1905-06 to 1907-08 ...	78,86,177
1908-09 to 1910-11 ...	80,51,977

Working Expenses.

7. In Sind, in addition to the ordinary working expenses for the maintenance of canals, expenses have to be incurred in controlling the floods of

the Indus and maintaining flood embankments. The working expenses per acre irrigated, when the expenditure on embankments is included and when excluded, have been as follows:—

Years.	Working expenses per acre omitting Minor Works and Navigation—Works for which neither Capital nor Revenue Accounts are kept.	Working expenses per acre including Minor Works and Navigation—Works for which neither Capital nor Revenue Accounts are kept.
	Rs.	Rs.
1899-1900 to 1901-02 ...	0.67	0.79
1902-03 to 1904-05 ...	0.75	0.95
1905-06 to 1907-08 ...	0.78	0.98
1908-09 to 1910-11 ..	0.78	1.15

Net Revenue.

8. The net profit per acre irrigated after paying working expenses (excluding interest charges) was:—

Years.	Net revenue per acre omitting Works for which neither Capital nor Revenue Accounts are kept.	Net revenue per acre including Works for which neither Capital nor Revenue Accounts are kept.
	Rs.	Rs.
1899-1900 to 1901-02 ...	1.29	1.17
1902-03 to 1904-05 ..	1.18	1.00
1905-06 to 1907-08 ...	1.49	1.24
1908-09 to 1910-11 ...	1.49	1.15

9. The following table shows area irrigated, revenue and working expenses in respect of all works.

Years.	Area irrigated.	Working expenses for maintenance of canals and irrigation and river embankments.					Gross Revenue.	Net Revenue.	Remarks.
		Works for which Capital and Revenue Accounts are kept.	Works for which neither Capital nor Revenue Accounts are kept.			Total working expenses. (3 + 6).			
			River embankments including bunds.	Other items.	Total.				
1	2	3	4	5	6	7	8	9	10
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1908-09 ...	3,702,768	26,73,131	6,25,549	4,67,277	10,92,825	37,65,956	90,89,036	42,73,080	
1909-10 ...	3,304,092	24,96,276	10,14,168	5,32,242	15,46,400	40,42,676	78,29,617	37,88,341	
1910-11 ...	3,504,918	30,34,506	8,03,662	4,18,372	12,25,034	42,59,543	62,84,135	40,24,595	
Average for triennium ending 1910-11.	3,503,926	27,34,637	8,16,123	4,71,964	12,88,097	40,22,721	(a) 90,59,729	40,28,005	(a) Excluding Rs. 1,248 on account of refunds of revenue.
Average for triennium ending 1907-08.	3,541,878	25,61,892	4,85,799	4,24,077	9,09,876	34,71,768	(b) 78,83,419	44,11,651	(b) Excluding Rs. 2,758 on account of refunds of revenue.

A comparison of the above figures shows, that the increased expenditure on river embankment and other items absorbed the extra revenue obtained from the canals.

Major Works—Productive.

10. The following table shows comparison of capital outlay, surplus revenue, rate of assessment and working expenses for the canals per acre :—

Years.	Capital outlay to end of triennial period.	Surplus revenue after paying working expenses.	Rate per acre.	
			Assessment.	Working expenses.
	Rs.	Rs.	Rs.	Rs.
1899-1900 to 1901-02	2,21,84,007	12,94,805	1.82	0.47
1902-03 to 1904-05	2,51,87,537	13,79,797	1.97	0.70
1905-06 to 1907-08	2,57,46,447	20,38,478	2.18	0.77
1908-09 to 1910-11	2,63,80,613	19,32,766	2.38	0.91

The capital outlay to end of the triennium under report amounts to Rs. 2,63,80,613 upon which a return of 6.53 per cent. was realized. Thus, after deducting interest charges, this class of works now produces a surplus of Rs. 8,70,794 per annum with a rate of Rs. 2.38 per acre.

Minor Works and Navigation—Works for which Capital and Revenue Accounts are kept.

11. The following table shows comparison of capital outlay, surplus revenue, rate of assessment and working expenses for the canals per acre :—

Years.	Capital outlay to end of triennial period.	Surplus revenue after paying working expenses.	Rate per acre.	
			Assessment.	Working expenses.
	Rs.	Rs.	Rs.	Rs.
1899-1900 to 1901-02	40,07,496	12,75,591	2.01	0.63
1902-03 to 1904-05	45,54,478	13,16,237	1.99	0.59
1905-06 to 1907-08	48,03,148	15,31,722	2.09	0.58
1908-09 to 1910-11	48,22,533	15,53,202	2.20	0.68

The capital outlay incurred to end of 1910-11 on this class of works amounted to Rs. 48,22,533 upon which the very high return of 24.31 per cent. is obtained, the percentage obtained during the last triennium being 23.96. The working expenses were 0.68 per acre.

Minor Works and Navigation—Works for which only Revenue Accounts are kept.

12. The following table shows comparison of area irrigated, revenue and working expenses :—

Years.	Area irrigated.	Revenue.	Working expenses.
	Acres.	Rs.	Rs.
1899-1900 to 1901-02	1,134,336	23,39,635	9,78,407
1902-03 to 1904-05	948,881	20,44,657	9,79,365
1905-06 to 1907-08	1,070,725	25,28,586	8,78,387
1908-09 to 1910-11	1,135,733	25,92,760	8,47,823

When compared with the figures of preceding triennium, the area irrigated shows an increase of 65,008 acres and the revenue of Rs. 64,174, while the working expenses show a decrease of Rs. 30,564.

Minor Works and Navigation—Works for which neither Capital nor Revenue Accounts are kept.

13. The following table shows comparison of area irrigated, revenue and working expenses :—

Years		Area irrigated.	Revenue.	Working expenses.
		Acres.	Rs.	Rs.
1899-1900 to 1901-02	... ..	25,627	69,663	3,90,413
1902-03 to 1904-05	... ..	24,771	56,154	6,19,169
1905-06 to 1907-08	... ..	41,583	1,01,128	9,09,876
1908-09 to 1910-11	... ..	38,437	85,187	12,88,087

Under this head are included the river embankments and bunds. Erosion by the Indus has been very active above Sukkur during the past two triennia and heavy expenditure on flood embankments has been necessary. The revenue realized is obtained from irrigation under a few small canals passing through them and other miscellaneous sources.

The expenditure incurred in connection with the river-gauges, surveys, etc., carried out by the Indus River Commission has also been debited to this head. The work done by the Commission during the triennium under report will be found detailed in the Administration Reports.

14. The change in the comparison of Bukkur and Kotri gauges commented on in paragraph 4, and the active erosion necessitating the increased expenditure of paragraph 13 are indications of the unrest of the great river Indus during the period under report.

CONSOLIDATED STATEMENT.

MAJOR WORKS—PRODUCTIVE WORKS.

(SIND.)

**SIND TRIENNIAL REPORT,
CONSOLIDATED STATEMENT**

		Particulars.	1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5	6
Area.	1	Kharif	Acres. 973,477	Acres. 861,576	Acres. 911,842
	2	Rabi	465,242	372,742	369,908
	3	Total, Kharif and Rabi ...	1,438,719	1,234,318	1,281,750
Capital Account.	4	Capital Expenditure during the year	2,72,165	2,07,349	1,50,585
	5	Capital Expenditure to end of year [§] .	2,60,18,612	2,62,25,963	2,63,80,613
	6	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	6.60	6.93	6.21
				*2	+4,065
Revenue.	7	Gross Revenue (Direct and Indirect)	31,36,058	30,69,990	31,96,561
	8	Refunds	2,871	.....	873
	9	Net Revenue	19,25,822	20,25,158	18,47,317
	10	Do. due to old works	2,08,916	2,08,916	2,08,916
	11	Do. due to improvements	17,16,906	18,16,242	16,38,401
	12	Balance of Net Revenue due to improvements after deducting interest charges	8,68,215	9,66,387	7,77,779
	13	Assessed Revenue (Direct and Indirect)	32,84,602	29,50,272	31,64,619
	14	Remissions during the year on Assessed Revenue	45,244	15,851	3,178
	15	Unrealized Balance to end of year	3,75,037	2,39,465	2,05,917
Working Expenses.	16	Incidence of Assessed Revenue per acre	2.28	2.39	2.47
	17	Incidence of Collection per acre	2.18	2.49	2.49
	18	Total Working Expenses	12,07,365	10,44,832	13,48,371
	19	Incidence of Working Expenses per acre	0.84	0.85	1.05

1908-1909 to 1910-1911.

FOR MAJOR WORKS—PRODUCTIVE WORKS.

Average for the triennium under report.	1905-1908 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres. 915,632 402,631	Acres. 959,667 457,770	Acres. 873,413 391,470	Acres. 700,891 273,211	
1,318,263	1,417,437	1,264,883	974,102	*Adjusted on account of fractions of a rupee.
Rs.	Rs.	Rs.	Rs.	†Outlay on Mirwah adjusted — <i>vide</i> Administrative Ac- counts for 1910-11.
2,11,388	1,86,303	10,01,127	21,04,657	
2,63,80,613	2,57,46,447	2,51,87,537	2,21,84,007	The figures in columns 6 to 9 represent Capital expenditure to end of triennial period.
6.53	7.11	5.19	5.71	
31,34,203 1,248	31,33,643 2,687	22,72,557 3,620	17,55,347 1,712	§Including expenditure on the Naulakhi Canal for which no detailed statement has been prepared. This work is incomplete.
19,32,766 2,08,916 17,23,850	20,38,478 2,08,916 18,29,562	13,79,797 71,436 13,08,361	12,94,805 27,954 12,66,851	
8,70,794	9,43,961	3,84,458	5,34,738	
31,33,164	30,99,338	24,88,747	17,77,974	
21,425 2,73,473	75,062 2,83,703	88,850 4,92,195	11,634 1,40,769	
2.38 2.38	2.18 2.21	1.97 1.80	1.82 1.80	
12,00,189	10,92,478	8,89,140	4,58,830	
0.91	0.77	0.70	0.47	

CONSOLIDATED STATEMENT.

—
**MINOR WORKS AND NAVIGATION—WORKS FOR WHICH
CAPITAL AND REVENUE ACCOUNTS ARE KEPT.**

—
(SIND.)

SIND TRIENNIAL REPORT,
CONSOLIDATED STATEMENT FOR MINOR WORKS AND NAVIGATION

		Particulars.	1908-1909.	1909-1910.	1910-1911.
1	2		3	4	5
Area.	{	1 Kharif	Acres. 770,856	Acres. 736,948	Acres. 757,486
		2 Rabi	268,868	247,097	253,224
		3 Total, Kharif and Rabi ...	1,039,724	984,045	1,010,710
			Rs.	Rs.	Rs.
Capital Account.	{	4 Capital Expenditure during the year	13,161	6,176	48
		5 Capital Expenditure to end of year.	48,16,309	48,22,485	48,22,533
		6 Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	25.40	22.53	25.03
Revenue.	{	7 Gross Revenue (Direct and Indirect)	21,74,069	21,53,178	23,92,234
		8 Refunds ... ..	...	.....	.....
		9 Net Revenue	16,04,236	14,67,435	15,87,934
		10 Do. due to old works ...	3,80,944	3,80,944	3,80,944
		11 Do. due to improvements .	12,23,292	10,86,491	12,06,990
		12 Balance of Net Revenue (due to improvements) after deducting interest charges	10,67,170	9,31,277	10,50,821
		13 Assessed Revenue (Direct and Indirect)	21,95,883	21,17,223	23,48,137
		14 Remissions during the year on Assessed Revenue	15,899	2,117	481
		15 Unrealized Balance to end of year .	1,41,755	1,03,684	68,481
		16 Incidence of Assessed Revenue per acre	2.11	2.15	2.32
17 Incidence of Collection per acre ...	2.09	2.19	2.37		
Working Expenses.	{	18 Total Working Expenses ...	5,69,833	6,85,743	8,04,300
		19 Incidence of Working Expenses per acre	0.55	0.70	0.80

1903-1909 to 1910-1911.

—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Average for the triennium under report.	1905-1906. to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres. 755,097 255,396	Acres. 753,014 258,619	Acres. 690,437 262,576	Acres. 697,267 244,730	
1,011,493	1,011,633	953,013	941,997	
Rs. 6,461 48,22,533	Rs. 99,220 48,03,148	Rs. 2,06,341 45,54,478	Rs. 27,875 40,07,496	The figures in columns 6 to 9 represent Capital Expenditure to end of triennial period.
24.31	23.96	20.72	22.06	
22,39,827 15,53,202 3,80,944 11,72,258	21,22,820 71 15,31,722 3,80,944 11,50,778	18,78,093 976 13,16,237 3,72,379 9,43,858	18,70,801 2,052 12,75,591 3,91,252 8,84,339	
10,16,423	9,86,431	7,83,287	7,31,990	
22,20,414	21,23,232	18,96,652	18,91,141	
6,166 1,04,840	9,396 1,09,306	16,375 1,45,428	2,677 1,01,868	
2.20 2.21	2.09 2.09	1.99 1.97	2.01 1.98	
6,86,625	5,91,027	5,60,880	5,93,158	
0.68	0.58	0.59	0.63	

CONSOLIDATED STATEMENT.

—

**MINOR WORKS AND NAVIGATION — WORKS FOR WHICH
ONLY REVENUE ACCOUNTS ARE KEPT.**

—

(SIND.)

SIND TRIENNIAL REPORT,
CONSOLIDATED STATEMENT FOR MINOR WORKS AND NAVIGATION—

Particulars.					1908-1909.	1909-1910.	1910-1911.
1	2				3	4	5
	<i>Area.</i>				Acres.	Acres.	Acres
1	Kharif	...	...	...	824,818	765,906	820,797
2	Rabi	...	...	...	353,432	285,811	356,436
3	Total, Kharif and Rabi ...				1,178,250	10,51,717	1,177,233
	<i>Revenue.</i>				Rs.	Rs.	Rs.
4	Gross Revenue (Direct and Indirect) ...				26,34,505	25,23,357	26,20,419
5	Incidence of	do.	per				
	acre	...	...	...	2.24	2.40	2.23
6	Net Revenue ...				17,38,572	17,57,656	17,38,584
	<i>Working Expenses.</i>						
7	Total Working Expenses ...				8,95,933	7,65,701	8,81,835
8	Incidence of Working	Expenses		per			
	acre	...	...	...	0.76	0.73	0.75

1908-1909 TO 1910-1911.

WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
803,840	788,084	745,621	837,476	
331,893	282,641	203,260	246,860	
1,135,733	1,070,725	948,881	1,134,336	
Rs.	Rs.	Rs.	Rs.	
25,92,760	25,28,586	20,44,657	23,39,635	
2.28	2.36	2.15	2.06	
17,44,937	16,50,199	10,65,291	13,61,228	
8,47,823	8,78,387	9,79,366	9,78,407	
0.75	0.82	1.03	0.86	

CONSOLIDATED STATEMENT.

**MINOR WORKS AND NAVIGATION—WORKS FOR WHICH
NEITHER CAPITAL NOR REVENUE ACCOUNTS
ARE KEPT.**

(SIND.)

SIND TRIENNIAL REPORT,
CONSOLIDATED STATEMENT FOR MINOR WORKS AND NAVIGATION—

Particulars.					1908-1909.	1909-1910.	1910-1911.
1	2				3	4	5
	<i>Area.</i>				Acres.	Acres.	Acres.
1	Kharif	...	...	...	24,608	19,740	18,979
2	Rabi	...	...	...	21,465	14,272	16,246
3	Total, Kharif and Rabi			...	46,073	34,012	35,225
	<i>Revenue.</i>				Rs	Rs.	Rs.
4	Gross Revenue (Direct and Indirect)			...	97,275	82,492	75,794
5	Net Revenue			...	-9,95,550	-14,63,908	-11,49,240
	<i>Working Expenses.</i>						
6	Total Working Expenses			...	10,92,825	15,46,400	12,25,034

1908-1909 to 1910-1911.

WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
21,109	21,684	12,858	12,759	
17,328	19,899	11,913	12,868	
38,437	41,533	24,771	25,627	
Rs.	Rs.	Rs.	Rs.	
85,187	1,01,128	56,154	69,663	
-12,02,900	-8,08,748	-5,63,015	-3,20,750	
12,88,087	9,09,876	6,19,169	3,90,413	

SIND TRIENNIAL REPORT, 1908-09 TO 1910-11.

Consolidated statement for all classes of Irrigation Works.

	DURING THE YEAR			AVERAGE FOR THE TRIENNium.			
	1908-1909.	1909-1910.	1910-1911.	1908-1909 to 1910-1911.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.
<i>Works for which Capital and Revenue Accounts are kept.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Capital Expenditure during the year	2,85,326	2,13,525 ^{*2}	1,50,633 †4,065	2,17,849	2,85,523	12,07,468	21,32,532
Do. do. to end of year	3,08,34,921	3,10,48,448	3,12,03,146	(a)3,12,03,146	(a) 305,49,595	(a) 2,97,42,015	(a) 2,61,91,503
Gross Revenue less refunds	53,07,256	52,23,168	55,87,922	53,72,732	52,53,705	41,46,054	36,22,384
Working expenses	17,77,198	17,30,575	21,52,671	18,86,814	16,83,505	14,50,020	10,51,988
Net Revenue	35,30,058	34,92,593	34,35,251	34,85,968	35,70,200	26,96,034	25,70,396
Do. due to improvements.	29,40,198	29,02,733	28,45,391	28,96,108	29,80,340	22,52,319	21,51,190
Area irrigated	Acres. 2,478,443	Acres. 2,218,363	Acres. 2,292,460	Acres. 2,329,756	Acres. 2,429,070	Acres. 2,217,896	Acres. 1,916,099
<i>Works for which only Revenue Accounts are kept.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gross Revenue	26,34,505	25,23,357	26,20,419	25,92,760	25,23,586	20,44,657	23,39,655
Working expenses	8,95,933	7,65,701	8,81,835	8,47,823	8,78,387	9,79,366	9,78,407
Net Revenue	17,38,572	17,57,656	17,38,584	17,44,937	16,50,199	10,65,291	13,61,223
Area irrigated	Acres. 1,178,250	Acres. 1,051,717	Acres. 1,177,233	Acres. 1,135,733	Acres. 1,070,725	Acres. 948,851	Acres. 1,134,336
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gross Revenue	97,275	82,492	75,794	85,187	1,01,128	56,154	69,663
Working expenses	10,92,325	15,46,400	12,25,034	12,88,087	9,09,876	6,19,169	3,90,413
Net Revenue	-9,95,550	-14,63,908	-11,49,240	-12,02,900	-8,08,748	-5,63,015	-3,20,750
Area irrigated	Acres. 46,073	Acres. 34,012	Acres. 35,225	Acres. 38,437	Acres. 41,583	Acres. 24,771	Acres. 25,627
<i>Total.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gross Revenue ‡	80,39,036	78,29,017	82,84,135	80,50,729	78,83,419	62,46,865	60,31,632
Working expenses ‡	(b) 37,65,956	(b) 40,42,676	(b) 42,59,540	40,22,724	34,71,768	30,48,555	24,20,808
Net Revenue	42,73,080	37,86,341	40,24,595	40,28,005	44,11,651	31,98,310	36,10,824
Area irrigated	Acres. 3,702,766	Acres. 3,304,092	Acres. 3,504,918	Acres. 3,503,926	Acres. 3,541,378	Acres. 3,191,548	Acres. 3,076,062

* Adjusted on account of fractions of a rupee.

† Outlay on Mirwah adjusted—*vide* Administrative Accounts for 1910-11.

‡ Excluding refunds of Revenue.

(a) These figures relate to end of triennial period.

(b) The difference of Rs. 5,317 between these figures and those shown in the General Abstract of Financial results embodied in the Irrigation Administration Report is due to "Expenditure before improvements" of certain Capital Account Works.

MAJOR WORKS—PRODUCTIVE WORKS.

—
(SIND.)

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—Desert Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
		Acres.	Acres.	Acres.
Area.	1 Rice	3,149	12,710	14,946
	2 Jowári	60,946	71,147	65,932
	3 Khari ... { Bajri	32,539	22,606	20,517
	4 Cotton	51	53	12
	5 Other crops	18,252	17,504	18,473
	6 Total, Kharif ...	114,937	124,020	119,880
	7 Rabi ... { Wheat	15,352	13,606	17,639
	8 Barley	8	10	52
	9 Oil-seeds	32,612	16,017	15,743
	10 Other crops	28,213	27,838	33,156
	11 Total, Rabi ...	76,185	57,471	66,590
	12 Total, Kharif and Rabi ...	191,122	181,491	186,470
13 Dubári	5,823	4,183	6,100	
14 Jághir	3,193	2,208	2,769	
15 Foreign	57,933	55,685	52,826	
16 Lift	8,422	9,802	9,499	
17 Flow	132,700	171,689	1,76,971	
		Rs.	Rs.	Rs.
Revenue.	18 Estimated value of crops	68,83,692	56,76,150	46,61,326
	19 Irrigation share of Land Revenue (Indirect) ...	2,85,788	2,44,171	267,394
	20 Water-rates on Jághir land and Miscellaneous Receipts (Direct)	66,755	1,01,774	91,208
	21 Gross Revenue (Direct and Indirect)	3,52,543	3,45,945	3,58,602
	22 Refunds	2,738	.....	735
	23 Net Revenue	2,05,836	2,16,970	2,02,297
	24 Balance of Net Revenue after deducting interest charges	1,17,100	1,28,916	1,13,488
	25 Assessed Revenue (Direct and Indirect)	3,64,243	3,27,586	3,75,122
	26 Remissions during year on Assessed Revenue ...	21,510	299	144
	27 Unrealized balance to end of year	64,155	45,500	61,980
	28 Incidence of Assessed Revenue per acre ...	1.91	1.80	2.01
Capital Account.	29 Capital Expenditure during the year ... ..	.....	.....	15,573
	30 Do. to end of year	27,01,256	27,01,256	27,16,829
	31 Total sum at charge	27,01,256	27,01,256	27,16,829
	32 Percentage of Net Revenue to Capital Outlay to end of year	7.62	8.03	7.45
33 Interest Charges during year	88,736	88,054	88,809	
Working Expenses.	34 Expenditure on Extensions and Improvements	12,859	4,045	17,676
	35 Do. on Maintenance and Repairs	85,352	99,011	1,00,943
	36 Do. on Establishment	21,470	6,606	13,437
	37 Revenue Collection Charges	19,282	17,167	18,193
	38 Expenditure not included in above heads ...	5,006	2,146	5,321
	39 Total Working Expenses	1,43,969	1,28,975	1,55,570
40 Incidence of Working Expenses per acre ...	0.75	0.71	0.83	
		Cusecs.	Cusecs.	Cusecs.
Miscellaneous.	41 Average discharge, Kharif ... ..	.....	.....	.....
	42 Do. do. Rabi ... ..	.....	.....	.....
	43 Do. Kharif and Rabi (when not separated)	2,707	2,873	2,802
	44 Duty per Cusec, Kharif	69	56	65
	45 Do. Rabi ... ..	.....	.....	.....
		Inches.	Inches.	Inches.
46 Rainfall	3.63	2.61	3.44	
		Miles.	Miles.	Miles.
47 Length of Main Canal	75	75	75	
48 Do. of Branch Canals	197	197	197	
49 Do. of Distributaries	58	58	57	

General Remarks.—The increase in cultivation is due to a better discharge and the increase in

1908-1909 to 1910-1911.

PRODUCTIVE.

Source of supply—Inclus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
10,268	13,236	6,366	1,398	
66,008	58,966	67,077	68,798	
26,221	32,444	39,679	24,699	
39	747	242	12	
18,076	18,247	24,131	24,350	
1,19,612	123,640	137,495	119,252	
15,532	14,886	10,064	2,463	
23	9	25	10	
21,458	14,077	41,247	13,545	
29,736	20,568	20,763	9,723	
66,749	49,540	72,089	25,741	
186,361	173,180	209,584	144,993	
5,369	5,367	11,521	4,081	
2,725	3,073	3,368	2,581	
55,481	55,408	70,372	47,242	
9,241	11,980	16,079	15,405	
177,120	161,200	193,505	129,588	
Rs.	Rs.	Rs.	Rs.	
₹7,40,389	42,33,440	34,14,663	26,02,959	
2,65,784	2,33,320	1,65,107	1,51,650	
86,579	97,886	84,891	45,114	
3,52,363	3,31,706	2,49,993	1,96,764	
1,157	1,132	.....	5	
2,05,368	1,61,489	1,24,005	1,32,591	
1,19,835	68,056	26,735	66,931	
3,55,650	3,22,169	3,35,092	2,03,630	
7,318	34,809	40,424	7,460	
57,212	84,160	1,80,262	62,641	
1.91	1.86	1.60	1.40	
5,191	11,400	1,25,730	3,32,593	
27,16,329	27,01,256	26,67,057	22,89,366	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
27,16,329	27,63,700	26,67,057	14,91,327	
7.67	5.97	4.65	5.79	
88,533	93,433	97,270	65,610	
11,527	18,309	8,019	1,828	
95,102	1,12,876	86,419	48,155	
13,833	16,128	13,745	1,042	
13,214	16,047	12,339	11,730	
4,157	5,725	5,471	1,413	
1,42,338	1,69,085	1,25,993	64,168	
0.77	0.97	0.60	0.44	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	2,495	
.....	.....	.....	Not available.	
2,794	2,550	.....	.....
63	64.33	93.15	49.04	
Inches.	Inches.	Inches.	Inches.	
3.24	6.30	3.15	2.17	
Miles.	Miles.	Miles.	Miles.	
75	75	75	75	} The figures in columns 6 to 9 represent lengths to end of triennial period.
197	197	197	141	
57	58	46	15	

Gross Revenue to the better distribution of the water-supply.

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—Unharwah.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	4,842	5,593	5,573
	2	Jowari	24,899	19,966	14,977
	3	Kharif ... { Bājri	17,100	20,898	21,246
	4	Cotton	81	23	20
	5	Other crops	9,947	6,663	7,334
	6	Total Kharif ...	56,869	53,143	49,150
	7	Rabi ... { Wheat	10,585	10,494	13,158
	8	Barley	14	11	15
	9	Oil-seeds	4,010	8,418	3,340
	10	Other crops	13,795	17,463	15,878
	11	Total Rabi ...	28,404	31,386	32,391
12	Total Kharif and Rabi ...	85,273	84,529	81,541	
13	Dubari	4,206	5,086	5,101	
14	Jaghir	66	70	58	
15	Foreign ... ..	.....	.....	.....
16	Lift	5,956	5,786	6,629	
17	Flow	79,317	78,743	74,912	
		Rs.	Rs.	Rs.	
Revenue.	18	Estimated value of crops	24,87,322	25,86,076	21,99,984
	19	Irrigation share of Land Revenue (Indirect) ...	1,88,905	1,96,091	1,73,853
	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	1,925	958	1,211
	21	Gross Revenue (Direct and Indirect)	1,90,830	1,97,049	1,75,064
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	1,58,665	1,57,606	1,31,402
	24	Balance of Net Revenue after deducting interest charges	1,35,989	1,34,588	1,08,151
	25	Assessed Revenue (Direct and Indirect)	1,88,375	1,84,663	1,81,953
	26	Remissions during year on Assessed Revenue ...	1,787	52	176
	27	Unrealized balance to end of year	17,180	4,740	11,902
Capital Account.	28	Incidence of Assessed Revenue per acre ...	2.21	2.18	2.23
	29	Capital Expenditure during the year	21,647	9,894	-3,652
	30	Do. to end of year	6,99,236	7,09,132	7,05,480
	31	Total sum at charge	6,99,236	7,09,132	7,05,480
	32	Percentage of Net Revenue to Capital Outlay to end of year	22.69	22.23	18.63
	33	Interest Charges during year	22,676	23,018	23,251
	34	Expenditure on Extensions and Improvements ...	275	2,500	9,743
Working Expenses.	35	Do. on Maintenance and Repairs	15,929	22,991	19,801
	36	Do. on Establishment	3,660	1,697	3,344
	37	Revenue Collection Charges	11,275	11,647	10,813
	38	Expenditure not included in above heads ...	1,026	618	961
	39	Total Working Expenses ...	32,165	39,443	43,662
	40	Incidence of Working Expenses per acre ...	0.38	0.47	0.54
			Cusecs.	Cusecs.	Cusecs.
Miscellaneous.	41	Average discharge, Kharif ... ..	.....	.....	.....
	42	Do. do. Rabi ... ..	.....	.....	.....
	43	Do. Kharif and Rabi (when not separated) ...	1,400	1,449	1,497
	44	Duty per Cusec, Kharif	61	57	53
	45	Do. Rabi ... ..	.....	.....	.....
		Inches.	Inches.	Inches.	
46	Rainfall	3.03	2.35	3.25	
		Miles.	Miles.	Miles.	
47	Length of Main Canal	36	36	36	
48	Do. of Branch Canals	77	78	82	
49	Do. of Distributaries	4	4	4	

General Remarks.—The increase in cultivation and revenue as compared with the average for supply owing to two distributaries, the Kharirawah and Hazarawah,

1908-1909 TO 1910-1911.

PRODUCTIVE.

Source of Supply—Indus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900. to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
5,336	4,427	3,520	2,152	
19,947	17,603	19,801	80,766	
19,748	21,418	21,940	16,488	
41	182	71	71	
7,982	9,282	12,923	16,311	
53,054	52,912	58,255	65,788	
41,412	8,102	4,120	3,415	
13	28	32	23	
3,590	4,901	3,642	6,117	
15,712	12,752	7,379	6,962	
30,727	25,783	15,173	16,517	
83,781	78,695	73,423	82,305	
4,798	3,754	2,681	3,057	
65	54	65	233	
.....	
6,124	4,500	5,884	10,047	
77,657	74,195	67,544	72,258	
Rs.	Rs.	Rs.	Rs.	
24,24,461	21,37,685	8,59,659	13,14,881	
1,86,283	1,73,355	1,15,515	1,51,591	
1,365	458	269	369	
1,87,648	1,73,813	1,15,784	1,51,960	
.....	
1,49,224	1,25,588	72,503	1,14,648	
1,26,243	1,02,295	47,157	89,957	
1,84,997	1,70,500	1,38,768	1,54,867	
672	7,447	10,016	23	
11,274	24,098	40,265	8,073	* Adjusted on account of fractions of a rupee.
2.21	2.16	1.89	1.88	
9,296	5,967	4,535	6,400	
7,05,480	6,77,589	6,59,688	6,46,083	} The figures in columns 6 to 9 represent Capital Expenditure to end of triennial period.
7,05,480	6,77,589	6,59,688	4,827	
21.15	18.53	10.99	17.74	
22,981	23,293	25,346	24,691	
4,173	4,032	2,722	1,108	
19,407	26,654	27,548	27,375	
2,897	4,299	4,580	-534	
11,078	10,243	6,790	8,967	
369	2,602	1,641	373	
38,424	47,830	43,281	37,289	
0.46	0.60	0.59	0.46	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	1,827	
.....	
1,449	1,319	.....	.....
57	61	50.23	36.11	
Inches.	Inches.	Inches.	Inches.	
2.88	3.62	3.57	1.33	
Miles.	Miles.	Miles.	Miles.	
36	36	36	36	} The figures in columns 6 to 9 represent lengths to end of triennial period.
82	62	62	62	
4	4	.....	.....

the triennium ending 1907-08 is due to a better discharge and distribution of the water being opened in 1910.

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—*Begari Canal*

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	55,672	62,854	66,765
	2	Jowari	96,487	77,459	84,344
	3	Khariif ... { Bajri	15,596	18,005	15,226
	4	Cotton	41	18	153
	5	Other crops	20,318	12,573	18,838
	6	Total Khariif	1,88,114	1,70,909	1,85,326
	7	Rabi ... { Wheat	15,792	12,016	12,430
	8	Barley	41	56	16
	9	Oil-seeds	38,188	15,627	5,692
	10	Other crops	82,132	83,936	70,266
	11	Total Rabi	136,153	111,635	88,404
	12	Total Khariif and Rabi	324,267	282,544	273,730
13	Dubari	50,002	51,793	49,141	
14	Jaghir	19,586	17,698	17,669	
15	Foreign	31,313	24,534	20,306	
16	Lift	41,666	36,886	32,689	
17	Flow	282,601	246,658	241,041	
		Rs.	Rs.	Rs.	
Revenue.	18	Estimated value of crops	89,83,428	71,21,903	55,97,725
	19	Irrigation share of Land Revenue (Indirect)	6,18,427	5,44,537	5,19,911
	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	44,222	43,131	35,717
	21	Gross Revenue (Direct and Indirect)	6,62,649	5,87,668	5,55,623
	22	Refunds	133	.....	138
	23	Net Revenue	5,15,530	4,67,541	3,34,447
	24	Do. due to old works	24,854	24,854	24,854
	25	Do. due to improvements	4,90,676	4,42,687	3,09,593
	26	Balance of Net Revenue due to improvements after deducting interest charges... ..	4,23,235	3,72,292	2,37,946
	27	Assessed Revenue (Direct and Indirect)	6,43,338	5,69,404	5,64,164
	28	Remissions during year on Assessed Revenue... ..	293	2,740	25
29	Unrealized balance to end of year	27,905	6,893	15,410	
30	Incidence of Assessed Revenue per acre	1.98	2.02	2.06	
Capita Account.	31	Capital Expenditure during the year	1,28,549	86,198	—34,379
	32	Do. to end of year	21,13,235	21,99,433	21,65,054
	33	Total sum at charge	21,13,235	21,99,433	21,65,054
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	23.22	20.13	14.30
	35	Interest Charges during year	67,391	70,395	71,647
Working Expenses.	36	Expenditure on Extensions and Improvements... ..	24,416	2,106	85,057
	37	Do. on Maintenance and Repairs	57,580	73,986	78,165
	38	Do. on Establishment	19,229	6,195	17,834
	39	Revenue Collection Charges	40,143	36,235	34,123
	40	Expenditure not included in above heads	5,618	1,605	5,859
	41	Total Working Expenses	1,46,986	1,20,127	2,21,043
42	Incidence of Working Expenses per acre	0.45	0.43	0.81	
Miscellaneous.	43	Average discharge, Khariif ... ..	.....	.....	.....
	44	Do. do. Rabi ... ..	.....	.....	.....
	45	Do. Khariif and Rabi (when not separated)... ..	3,154	2,628	3,088
	46	Duty per Cusec, Khariif	102	107	87
	47	Do. Rabi ... ..	.....	.....	.....
	48	Rainfall	3.10	2.22	4.13
	49	Length of Main Canal	76	76	76
50	Do. of Branch Canals	118	113	118	
51	Do. of Distributaries ... ..	.....	.....	29	

General Remarks.—The decrease in cultivation is due to the fall in the Rabi of 1910-11 Begari

1908-1909 TO 1910-1911.

PRODUCTIVE.

Source of Supply—Indus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
61,764	60,183	42,027	34,573	
86,097	88,055	91,767	105,374	
16,275	21,861	19,881	17,250	
71	380	96	82	
17,243	22,171	37,278	48,965	
181,450	192,650	191,049	206,244	
13,413	10,761	7,166	8,917	
38	55	38	46	
19,835	20,140	21,872	26,947	
78,778	78,227	63,258	46,527	
112,064	118,183	92,334	82,437	
293,514	310,833	283,383	288,681	
50,312	50,442	40,310	32,817	
18,318	20,760	18,204	16,730	
25,384	31,733	35,573	44,099	
37,080	35,821	44,569	54,004	
256,434	275,012	233,814	234,677	
Rs.	Rs.	Rs.	Rs.	
72,34,352	71,39,252	37,04,622	53,48,974	
5,50,958	5,44,450	3,90,117	4,39,924	
41,024	41,467	43,650	54,113	
6,01,982	5,85,917	4,33,767	4,94,037	
91	544	1,042	1,379	
4,39,173	4,72,872	3,17,172	3,83,238	
24,854	24,854	24,354	24,854	
4,14,319	4,48,018	2,92,318	3,58,434	
3,44,508	3,85,762	2,26,016	2,92,132	
5,92,302	5,77,992	4,80,934	4,98,737	
1,019	24,717	19,692	3,349	
16,737	49,798	1,09,512	49,846	
2.02	1.86	1.70	1.72	
60,123	92,629	.....	.....
21,65,054	19,84,686	17,06,799	17,06,799	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
21,65,054	19,84,686	17,06,799	-18,25,885	
19.14	22.57	17.13	21.00	
69,811	62,256	66,302	66,302	
37,193	555	4,711	3,603	
69,910	56,629	61,694	67,669	
14,419	15,096	18,059	6,387	
36,835	35,588	26,583	29,735	
4,361	4,633	4,501	1,976	
1,62,718	1,12,501	1,15,553	1,09,370	
0.55	0.36	0.41	0.38	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	4,710	
.....	
2,957	2,912	.....	.....
99	107	86.43	44.05	
Inches.	Inches.	Inches.	Inches.	
3.15	4.30	3.27	3.27	
Miles.	Miles.	Miles.	Miles.	
76	76	76	76	} The figures in columns 6 to 9 represent lengths to end of triennial period.
118	118	82	82	
29	.....	.....	.....

owing to the silting of the Wadhu Dhund early in September, and thus stopping the from flowing.

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—*Mahiwah.*

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
		Acres.	Acres.	Acres.
Area.	1 Rice	7,653	9,476	8,912
	2 Jowari	36,928	27,417	32,284
	3 Kharif... Bajri	9,184	9,244	6,219
	4 Cotton	140	39	47
	5 Other crops	1,272	717	1,166
	6 Total Kharif	55,182	46,893	48,628
	7 Wheat	33,110	25,969	25,443
	8 Rabi ... Barley	197	161	108
	9 Oil-seeds	5,294	4,003	4,603
	10 Other crops	5,643	8,005	8,532
	11 Total Rabi	44,244	38,138	38,686
	12 Total Kharif and Rabi	99,426	85,031	87,314
13 Dubari	6,057	6,831	7,251	
14 Jaghir	3,376	2,506	2,404	
15 Foreign ... ..	.....	.....	.....
16 Lift	16,883	17,419	18,993	
17 Flow	82,543	67,612	68,321	
		Rs.	Rs.	Rs.
Revenue.	18 Estimated value of crops	21,25,043	17,22,907	9,67,069
	19 Irrigation share of Land Revenue (Indirect)	2,41,664	2,05,559	2,14,138
	20 Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	3,956	6,020	5,988
	21 Gross Revenue (Direct and Indirect)	2,45,620	2,11,579	2,20,126
	22 Refunds ... ..	.....	.....	.....
	23 Net Revenue	1,75,200	1,57,293	1,55,476
	24 Do. due to old works	89,217	89,217	89,217
	25 Do. due to improvements	85,983	68,076	66,259
	26 Balance of Net Revenue due to improvements after deducting interest charges	41,258	23,688	21,101
	27 Assessed Revenue (Direct and Indirect)	2,48,673	2,12,150	2,17,368
28 Remissions during year on Assessed Revenue	266	149	54	
29 Unrealized balance to end of year	9,171	9,593	6,780	
30 Incidence of Assessed Revenue per acre	2.50	2.49	2.49	
Capital Account.	31 Capital Expenditure during the year	411	.....	31,555
	32 Do. to end of year	13,79,152	13,79,152	14,10,707
	33 Total sum at charge	15,41,877	15,00,619	15,08,486
	34 Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	6.23	4.94	4.70
	35 Interest Charges during year	44,725	44,388	45,158
Working Expenses.	36 Expenditure on Extensions and Improvements	5,731	2,829	.....
	37 Do. on Maintenance and Repairs	47,151	41,010	41,394
	38 Do. on Establishment	896	—3,745	4,847
	39 Revenue Collection Charges	16,688	14,636	15,129
	40 Expenditure not included in above heads	—46	—444	3,230
	41 Total Working Expenses	70,420	54,286	64,650
42 Incidence of Working Expenses per acre	0.71	0.64	0.74	
		Cusecs.	Cusecs.	Cusecs.
Miscellaneous.	43 Average discharge, Kharif ... ..	.....	.....	.....
	44 Do. do. Rabi ... ..	.....	.....	.....
	45 Do. Kharif and Rabi (when not separated)	1,443	1,812	2,180
	46 Duty per Cusec, Kharif	69	47	40
	47 Do. Rabi ... ..	.....	.....	.....
		Inches.	Inches.	Inches.
48 Rainfall	3.46	2.40	3.23	
		Miles.	Miles.	Miles.
49 Length of Main Canal	29	29	29	
50 Do. of Branch Canals	170	168	168	
51 Do. of Distributaries	87	87	87	

General Remarks.—The results are satisfactory. The increase of cultivation and Revenue is high and favourable.

1908-1909 TO 1910-1911.

PRODUCTIVE.

Source of supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	(a) Acres.	
8,682	4,527	1,673	181	(a) Capital Account opened in 1900-01. Work came into operation in 1901-02.
32,210	29,343	13,192	2,750	
8,215	7,235	4,493	1,018	
75	385	73	25	
1,052	1,695	654	10	
50,234	43,190	20,115	3,984	
28,174	22,293	6,901	6,347	
155	113	20	20	
4,633	3,904	706	123	
7,394	2,606	798	45	
40,356	28,846	8,425	6,540	
90,590	72,036	28,540	10,524	
6,713	3,298	1,378	161	
2,762	2,252	970	940	
.....	
17,765	13,748	7,995	2,466	
72,825	58,288	20,545	8,058	
Rs.	Rs.	Rs.	Rs.	
16,05,006	16,85,973	4,08,907	2,69,997	
2,20,454	1,78,993	62,923	25,103	
5,321	3,258	572	126	
2,25,775	1,82,251	63,495	25,229	
.....	579	1,613	594	
1,62,656	1,09,884	30,496	14,124	
89,217	89,217	(b).....	(b).....	(b) Figures not available.
73,439	20,667	.....	.....
28,682	-25,970	-6,920	-1,606	
2,26,064	1,82,207	64,945	26,263	
156	1,976	1,630	594	
8,515	6,902	3,495	1,039	
2.50	2.53	2.28	2.50	
10,655	10,642	2,32,848	4,35,880	
14,10,707	13,78,741	13,46,816	6,48,272	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
15,08,486	15,42,733	13,70,036	6,52,154	
5.21	0.01	2.26	2.18	
44,757	46,637	37,416	15,730	
2,853	3,265	5,739	.....
43,185	39,627	25,244	9,794	
666	8,901	-2,945	-619	
15,485	12,921	3,635	1,423	
930	7,074	-287	-87	
63,119	71,788	31,386	10,511	
0.70	1.00	1.10	1.00	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	
.....	
1,312	1,366	.....	.....
52	55	43.77	.....
Inches.	Inches.	Inches.	Inches.	
3.13	2.78	2.84	1.72	
Miles.	Miles.	Miles.	Miles.	
29	29	29	29.37	} The figures in columns 6 to 9 represent lengths to end of triennial period.
168	170	31	28.43	
87	87	87	.....

due to the satisfactory working of the canal and to the inundation of 1908 being remarkably

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—Eastern Nara Works.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
Acres.	1	Acres.	Acres.	Acres.	
	2	109,851	113,003	124,156	
	3	2,112	385	1,656	
	4	49,550	34,270	29,541	
	5	26,080	20,543	21,501	
	6	3,291	1,725	2,341	
	6	Total, Kharif ...	190,884	169,926	179,195
	7	30,972	32,068	43,746	
	8	330	306	312	
	9	36,349	7,583	16,062	
	10	23,360	9,564	9,079	
	11	Total, Rabi ...	96,011	49,521	69,199
12	Total, Kharif and Rabi ...	286,895	219,447	248,394	
13	Dubari	10,143	6,344	5,402	
14	Jaghir	7,766	5,717	7,133	
15	Foreign ... ..	.....	.....	.....
16	Lift	47,389	34,844	32,285	
17	Flow	239,506	184,608	216,109	
Revenue.	18	Rs.	Rs.	Rs.	
	18	67,94,864	53,33,425	56,23,412	
	19	5,93,020	5,66,743	6,30,103	
	20	31,654	23,572	23,572	
	21	6,24,674	5,90,320	6,53,680	
	22	.....	.....	.....
	23	3,61,288	3,85,030	4,14,400	
	24	3,100	3,100	3,100	
	25	3,58,188	3,81,930	4,11,300	
	26	1,38,125	1,62,486	1,39,785	
	27	6,41,458	5,76,177	6,56,850	
	28	13,588	5,207	30	
29	25,906	6,556	9,698		
30	2.24	2.63	2.64		
31	40,027	28,659	22,535		
32	67,43,380	67,77,039	67,99,624		
33	67,43,380	67,77,039	67,99,624		
34	5.31	5.64	6.05		
35	2,20,063	2,19,444	2,21,512		
36	35,365	2,062	35,635		
37	1,27,141	1,18,658	1,09,620		
38	54,075	41,344	46,645		
39	36,147	34,761	38,580		
40	10,658	8,465	8,799		
41	2,63,386	2,05,290	2,39,280		
42	0.92	0.94	0.96		
Capital Account.	43	Cusecs.	Cusecs.	Cusecs.	
	44	1,549	1,964	2,203	
	45	.....	.....	.....
	46	116	132	162	
	47	372	355	1,032	
	48	.....	.....	.....
	49	64	107	114	
	50	.....	.....	.....
	51	759	1,349	1,247	
	52	104	87	142	
	53	64	40	42	
	54	64*	36*	44*	
55	127	94	70		
56	39*	65*	34*		
57	21	56	18		
58***		
59	15	28	34		
60***		
Miscellaneous.	61	Inches.	Inches.	Inches.	
	61	14.71	9.52	11.13	
	62	Miles.	Miles.	Miles.	
	62	486	486	486	
63	120½	120½	120½		
64	.....	.....	.....

General Remarks.—All the Canals in this system have been working satisfactorily except had to be introduced with the

1903-1909 TO 1910-1911.

PRODUCTIVE.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
115,670	128,564	134,418	138,562	
1,384	2,529	8,765	3,149	
37,787	46,703	40,274	43,320	
22,708	31,284	22,958	18,285	
2,453	2,768	3,786	5,180	
180,002	211,848	205,301	208,496	
35,595	51,540	37,055	47,428	
316	504	265	672	
19,998	29,397	19,700	26,253	
15,668	24,482	13,316	15,315	
71,577	105,923	70,336	89,668	
251,579	317,771	275,637	293,164	
7,296	14,476	13,474	12,370	
6,872	7,464	9,782	13,055	
.....	
38,173	57,290	45,630	293,164	
213,406	260,481	230,007		
Rs.	Rs.	Rs.	Rs.	
59,17,234	54,78,688	41,58,627	44,55,330	
5,96,625	6,34,440	5,37,329	5,77,578	
26,266	44,036	20,566	26,222	
6,22,891	6,73,476	5,66,895	6,03,800	
.....	7	21	40	
3,86,906	5,07,144	4,33,589	4,59,362	
3,100	3,100	3,100	3,100	
3,83,806	3,04,044	4,30,489	4,56,262	
1,63,466	2,71,799	1,81,374	2,15,201	
6,24,828	6,37,504	5,65,146	6,06,112	
7,940	3,162	83	122	
14,053	21,383	9,186	10,592	
2,48	2,16	2,05	2,07	
30,424	35,141	1,09,663	-955	
67,99,624	67,08,353	66,92,930	62,75,742	} The figures in columns 6 to 9 represent Capital Expenditure to end of triennial period.
67,99,624	67,08,353	66,02,930	53,42,409	
5,64	7,51	6,52	7,27	
2,20,340	2,32,245	2,49,115	2,41,061	
24,354	12,369	2,245	8,100	
1,18,473	78,060	67,252	60,675	
47,355	34,597	24,589	33,531	
36,496	39,115	33,446	35,926	
9,307	6,683	5,753	6,166	
2,35,985	1,71,325	1,33,285	1,44,393	
0,94	0,53	0,48	0,49	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
1,905	2,379	2,370	2,362	
.....	.....	.....	1,040	
137	185	.....	.....
586	785	877	781	
.....	.....	.....	259	
95	99	.....	.....
.....	
1,118	910	.....	.....
.....	
111	72	.....	.....
49	44	48,60	48,69	
48	62	40	51,69	
97	95	115	.....
46	88	.....	.....
32	41	38,67	51,75	
.....	.....	.....	40,24	
26	60	.....	.....
.....	
Inches.	Inches.	Inches.	Inches.	
11,79	4,16	6,09	2,46	
Miles.	Miles.	Miles.	Miles.	
486	486	486	467	
120½	120½	132	110	} The figures in columns 6 to 9 represent lengths to end of triennial period.
.....	

Khindra Canal. Deficiency of water has been felt lately on the Mithrao Canal, and rotation Jamrao Canal in the Rabi Season.

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—*Jámráo Canal.*

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	499	968	1,002
	2	Jowári	5,788	3,197	3,561
	3	Bájri	62,421	48,232	37,886
	4	Cotton	112,251	74,828	101,739
	5	Other crops	6,689	6,488	6,675
	6	Total, Kharif ...	187,598	133,713	150,868
	7	Wheat	13,147	32,452	39,504
	8	Barley	148	250	601
	9	(Oil-seeds	4,366	5,498	2,940
	10	Other crops	2,676	8,024	4,273
	11	Total, Rabi ...	20,337	46,224	47,318
	12	Total, Kharif and Rabi ...	207,935	179,937	198,181
Revenue.	13	Dubári	2,928	5,912	4,974
	14	Jághir	2,962	2,770	2,388
	15	Foreign ... ..	.....	.....	.....
	16	Lift	65,718	53,179	53,376
	17	Flow	142,217	123,758	139,805
	18	Estimated value of crops	33,85,056	51,36,652	80,58,469
	19	Irrigation share of Land Revenue (Indirect) ...	4,72,459	5,74,156	6,61,833
Capital Account.	20	Water-rates on Jághir Land and Miscellaneous Receipts (Direct)	16,101	20,238	27,066
	21	Gross Revenue (Direct and Indirect)	4,88,560	5,94,394	6,88,899
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	1,13,978	2,89,126	3,68,258
	24	Balance of Net Revenue after deducting interest charges... ..	-1,53,613	21,377	96,778
	25	Assessed Revenue (Direct and Indirect)	5,99,266	5,47,324	6,33,181
	26	Remissions during year on Assessed Revenue... ..	2,614	7,404	2,749
	27	Unrealized Balance to end of year	1,79,158	1,25,183	72,735
	28	Incidence of Assessed Revenue per acre	2.88	3.04	3.22
	29	Capital Expenditure during the year	54,846	82,076	59,355
Working Expenses.	30	Do. to end of year	81,62,207	82,44,283	82,97,638
	31	Total sum at charge	84,33,816	85,20,892	85,52,870
	32	Percentage of Net Revenue to Capital Outlay to end of year	1.40	3.51	4.44
	33	Interest Charges during year	2,67,691	2,67,749	2,71,480
	34	Expenditure on Extensions and Improvements	319	3,076	3,188
	35	Do. on Maintenance and Repairs	2,06,806	1,20,619	1,14,391
	36	Do. on Establishment	1,30,816	1,28,354	1,40,691
Miscellaneous.	37	Revenue Collection Charges	13,435	16,527	19,171
	38	Expenditure not included in above heads	23,206	36,692	43,200
	39	Total, Working Expenses	3,74,582	3,05,268	3,20,641
	40	Incidence of Working Expenses per acre	1.80	1.69	1.62
	41	Average discharge, Kharif	2,363	2,170	2,360
	42	Do. Rabi	634	1,811	2,072
	43	Do. Kharif and Rabi (when not separated) ... ..	.....	.....	.....
	44	Duty per Cusec, Kharif	77	60	63
45	Do. Rabi	22	25	23	
Miscellaneous.	46	Rainfall	4.76	6.41	14.45
	47	Length of Main Canal	117	117	117
	48	Do. of Branch Canals	63	63	63
49	Do. of Distributaries	409	409	409	

General Remarks.—The Jamráo is a perennial Canal with water-courses leading to every field of rain, and silting of its feeder, the Nara Supply Channel, it did not receive sufficient water in Canal. Its feeder, Nara Supply Channel, is again not working properly and is causing anxiety.

1908-1909 to 1910-1911.

PRODUCTIVE.

Source of Supply—Eastern Nára Ex-Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905	1899-1900 to 1901-1902	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
823	622	394	5,702	
4,182	3,828	2,432	2,371	
49,513	51,000	65,012	52,539	
96,273	107,393	93,992	25,544	
6,600	4,248	6,479	3,744	
157,391	167,096	168,359	89,990	
28,368	78,157	95,172	30,567	
333	713	487	173	
4,268	3,704	11,793	13,082	
4,991	7,114	5,071	8,668	
37,960	89,688	112,523	52,490	
195,351	256,784	280,882	142,480	
4,605	7,336	11,122	9,211	
2,373	3,580	4,144	2,606	
.....	
59,091	74,914	88,881	49,629	
136,260	181,870	192,001	92,851	
Rs.	Rs.	Rs.	Rs.	
55,26,726	62,24,769	62,66,995	27,41,951	
5,69,483	7,07,601	5,14,169	2,62,048	
21,135	52,929	1,20,139	2,396	
5,90,618	7,60,530	6,34,298	2,65,344	
.....	13	530	45	
2,57,121	4,34,334	3,54,493	1,82,507	
-11,819	1,48,518	85,118	-88,512	
5,95,090	7,43,725	6,87,715	2,69,330	
4,256	2,553	16,458	382	
1,25,692	76,516	1,32,419	7,002	
3-05	2-89	2-45	1-89	
63,426	-50,591	85,390	8,77,712	
82,97,638	81,07,361	82,59,134	80,02,965	} The figures in columns 6 to 9 represent Capital Expenditure to end of triennial period.
85,52,870	82,91,135	88,24,195	86,43,425	
3-10	5-36	4-29	2-28	
2,68,940	2,85,816	3,19,375	2,71,019	
2,194	1,046	1,014	.....
1,47,272	1,35,116	1,41,886	54,965	
1,33,287	1,38,688	93,015	16,285	
16,378	21,686	18,356	7,978	
34,366	29,647	25,004	3,564	
3,33,497	3,26,183	2,79,275	82,792	
1-71	1-27	0-99	0-58	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
2,298	2,537	2,804	2,651	
1,506	1,882	2,639	2,522	
.....	
67	65	60-73	55-37	} The figures in column 9 relate to 1901-1902 only.
23	45	40-20	27-64	
Inches.	Inches.	Inches.	Inches.	
8-54	4-47	3-80	2-92	
Miles.	Miles	Miles.	Miles,	
117	117	117	117	} The figures in columns 6 to 9 represent lengths to end of triennial period.
63	63	63	64	
409	409	409	379	

It has worked satisfactorily till 1907-1908, when owing to the abnormally low river, failure the Rabi season and consequently rotation of water had to be resorted to with the Mithrao

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—Dad Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.		
1	2	3	4	5		
Area.		Acres.	Acres.	Acres.		
	1	Rice	6,808	10,972	10,722	
	2	Kharif ... {	Jowari	85,116	24,462	26,085
	3		Bajri	36,841	40,024	32,792
	4		Cotton	7,811	7,651	14,318
	5		Other crops	6,825	7,962	9,630
	6	Total Kharif ...	93,401	91,071	93,547	
	7	Rabi ... {	Wheat	4,685	4,875	5,283
	8		Barley	519	580	1,566
	9		Oil-seeds	20,123	16,146	11,592
	10		Other crops	1,062	1,285	1,695
	11	Total Rabi ...	26,289	22,886	20,186	
12	Total Kharif and Rabi ...	119,690	1,13,957	113,683		
13	Dubari	4,048	6,136	3,708		
14	Jaghir	9,035	8,398	8,067		
15	Foreign ... ..	.....	.....	.....
16	Lift	55,450	59,620	58,248		
17	Flow	64,240	54,337	55,435		
Revenue.		Rs.	Rs.	Rs.		
	18	Estimated value of crops	21,80,341	32,35,854	30,90,065	
	19	Irrigation share of Land Revenue (Indirect)...	2,59,492	2,67,896	2,70,257	
	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	4,997	7,454	5,692	
	21	Gross Revenue (Direct and Indirect)... ..	2,64,489	2,75,350	2,75,949	
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	1,62,318	1,69,994	1,77,731	
	24	Do, due to old works	38,699	38,699	38,699	
	25	Do, due to improvements	1,24,119	1,31,295	1,39,032	
	26	Balance of Net Revenue due to improvements after deducting interest charges	47,960	55,359	61,835	
	27	Assessed Revenue (Direct and Indirect) ...	2,79,619	2,68,422	2,68,619	
	28	Remissions during year on Assessed Revenue. ....	.....	.....	.....
29	Unrealized balance to end of year	26,106	19,179	11,847		
30	Incidence of Assessed Revenue per acre ...	2.34	2.36	2.36		
Capital Account.	31	Capital Expenditure during the year ...	16,185	6,498	4,065*	
	32	Do, to end of year	23,44,097	23,50,595	23,91,765	
	33	Total sum at charge	29,63,280	29,26,768	29,12,579	
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year ...	5.29	5.59	5.81	
	35	Interest Charges during year	76,159	75,936	77,197	
	36	Expenditure on Extensions and Improvements.	375	1,020	1,302	
	37	Do, on Maintenance and Repairs	62,491	63,376	62,629	
	38	Do, on Establishment	16,879	18,312	12,454	
	39	Revenue Collection Charges	18,360	18,952	18,959	
	40	Expenditure not included in above heads ...	3,566	3,696	2,874	
41	Total Working Expenses ...	1,01,671	1,05,356	98,218		
42	Incidence of Working Expenses per acre ...	0.85	0.92	0.86		
Miscellaneous.		Cusecs.	Cusecs.	Cusecs.		
	43	Average discharge, Kharif ... ..	.....	.....	.....
	44	Do, do, Rabi ... ..	.....	.....	.....
	45	Do, Kharif and Rabi (when not separated).	3,698	3,844	3,580	
	46	Duty per Cusec, Kharif	32	29	31	
	47	Do, Rabi ... ..	.....	.....	.....
	48	Rainfall	6.35	5.87	8.69	
		Miles.	Miles.	Miles.		
49	Length of Main Canal	95	95	95		
50	Do, of Branch Canals	250	250	250		
51	Do, of Distributaries	25	25	25		

General Remarks.—Since a new mouth was made to this Canal in 1906 it has been working area is steadily increasing.

1908-1909 to 1910-1911.

PRODUCTIVE.

Source of supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres. (a)	
9,501	5,793	1,826	927	(a) The Canal came into operation in 1901-02.
23,554	26,274	18,242	11,191	
36,552	36,548	31,587	27,156	
9,927	3,758	2,476	724	
8,139	5,574	6,495	4,382	
92,673	77,947	60,626	44,380	
4,914	3,223	1,726	3,593	
888	595	146	240	
15,954	9,251	4,847	8,124	
1,348	840	588	577	
23,104	13,909	7,257	12,534	
115,777	91,856	67,883	56,914	
4,631	1,330	503	673	
8,500	7,589	5,235	4,437	
.....	
57,773	48,543	40,007	32,522	
53,004	43,313	27,876	24,392	
Rs.	Rs.	Rs.	Rs.	
28,35,420	15,08,701	10,13,049	Not available.	
2,65,882	1,91,761	1,26,177	1,04,467	
6,047	5,729	2,715	630	
2,71,929	1,97,490	1,28,892	1,05,097	
.....	17	178	66	
1,70,181	79,943	7,007	53,105	
38,699	38,699	25,800	Not available.	
1,31,482	41,244	-18,793	53,105	
55,051	-38,183	-99,325	-12,712	
2,72,220	1,94,686	1,29,730	1,09,656	
.....	244	361	180	
19,044	9,477	8,962	6,688	
2'85	2'12	1'91	1'93	
21,284	19,479	1,24,894	4,33,052	*Outlay on Mirwah adjusted <i>vide</i> Administrative Accounts for 1910-11.
23,91,765	23,27,912	22,69,478	18,94,791	} The figures in columns 6 to 9 represent Capital expenditure to end of triennial period.
29,12,579	29,52,045	26,62,809	20,12,312	
5'50	1'77	0'83	2'80	
76,431	79,432	80,532	48,649	
899	.....	.....	.....
62,832	77,776	87,599	35,954	
15,882	20,561	20,853	8,499	
18,757	14,473	9,530	6,283	
3,378	4,720	3,725	1,190	
1,01,748	1,17,530	1,21,707	51,926	
0'88	1'28	1'79	0'91	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	2,152	
.....	
3,707	2,955	.....	.....
31	30'66	34'93	20'62	
Inches.	Inches.	Inches.	Inches.	
6'97	4'65	5'14	3'48	
Miles.	Miles.	Miles.	Miles.	
95	95	96	96	} The figures in columns 6 to 9 represent lengths to end of triennial period.
250	250	251	250	
25	20	8	.....

very well, and most of the land, even lift, has been taken up for present cultivation. Cultivated

SIND TRIENNIAL REPORT,

MAJOR WORKS—

Name of Work—Nasrat Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	135	427	444
	2	Jowari	40,780	28,938	27,977
	3	Khariif ... { Bajri	22,239	28,972	21,413
	4	Cotton	20,467	10,020	30,201
	5	Other crops	2,821	3,544	5,218
	6	Total, Kharif	86,492	71,901	85,253
	7	Wheat	4,730	2,174	4,059
	8	Rabi ... { Barley	16	21	23
	9	Oil-seeds	32,216	12,945	2,652
	10	Other crops	657	341	450
	11	Total, Rabi	37,619	15,481	7,184
	12	Total, Kharif and Rabi	124,111	87,382	92,437
Revenue.	13	Dubari	3,997	3,297	1,255
	14	Jaghir	742	404	558
	15	Foreign ... ..	.....	.....	.....
	16	Lift	20,787	24,781	22,915
	17	Flow	103,324	62,601	69,522
	18	Estimated value of crops	21,32,592	22,42,536	25,44,377
	19	Irrigation share of Land Revenue (Indirect)... ..	3,05,663	2,65,870	2,66,869
Capital Account.	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	1,030	1,815	1,744
	21	Gross Revenue (Direct and Indirect)	3,06,693	2,67,685	2,68,613
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	2,32,507	1,81,598	63,306
	24	Do. due to old works	53,046	53,046	53,046
	25	Do. due to improvements	1,79,461	1,28,552	10,260
	26	Balance of Net Revenue due to improvements after deducting interest charges	1,18,284	67,853	-51,135
	27	Assessed Revenue (Direct and Indirect)	3,19,630	2,64,046	2,62,362
	28	Remissions during year on Assessed Revenue... ..	191	.....	.....
	29	Unrealized balance to end of year	25,456	21,816	15,565
	30	Incidence of Assessed Revenue per acre	2.58	3.02	2.84
Working Expenses.	31	Capital Expenditure during the year	10,500	-5,976	23,443
	32	Do. to end of year	18,65,904	18,59,928	18,88,371
	33	Total sum at charge	19,24,885	18,59,928	19,39,506
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	9.62	6.91	0.54
	35	Interest Charges during year	61,177	60,699	61,395
Miscellaneous.	36	Expenditure on Extensions and Improvements. Do. on Maintenance and Repairs	976	1,032	521
	37	Do. on Establishment	41,209	51,318	1,53,621
	38	Revenue Collection Charges	11,088	14,515	29,671
	39	Expenditure not included in above heads	18,777	16,339	16,334
	40	Total, Working Expenses	2,136	2,8.3	5,160
	41	Total, Working Expenses	74,186	86,087	2,05,307
	42	Incidence of Working Expenses per acre	0.60	0.99	2.22
Miscellaneous.	43	Average discharge, Kharif ... ..	.....	.....	.....
	44	Do. do. Rabi ... ..	.....	.....	.....
	45	Do. Kharif and Rabi (when not separated)	1,880	1,591	1,704
	46	Duty per Cusec, Kharif	62	53	52
	47	Do. Rabi ... ..	.....	.....	.....
	48	Rainfall	1.72	4.80	6.71
Miscellaneous.	49	Length of Main Canal	92	95	95
	50	Do. of Branch Canals	84	84	84
	51	Do. of Distributaries	119	118	118

General Remarks.—This Canal worked exceedingly well for several years after it was opened, has fallen off. The cultivation on this Canal has been greater than was anticipated, and with the working of its feeder Dhand, cleared at a cost of Rs. 1,25,000 in 1910-11, but again silted up

1908-1909 to 1910-1911.

PRODUCTIVE.

Source of supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.	
6	7	8	9	10	
Acres.	Acres.	Acres. (a)	Acres.		
336	418	254	(a) The work came into operation in 1903-04.	
32,565	35,388	14,115	.....	
24,225	29,432	12,431	.....	
20,229	21,559	2,431	.....	
3,861	3,587	2,982	.....	
81,216	90,384	32,213	.....	
3,654	3,973	2,573	.....	
20	20	15	.....	
15,933	21,140	10,520	.....	
482	765	225	.....	
20,094	25,898	13,333	.....	
101,310	116,282	45,546	.....	
2,850	7,276	2,511	.....	
568	652	426	.....	
.....		
22,823	21,823	11,860	.....	
73,482	94,459	33,686	.....	
Rs.	Rs.	Rs.	Rs.		
23,06,502	20,65,118	7,10,138		The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
2,79,467	2,21,879	78,891	.....	
1,530	1,581	537	.....	
2,80,997	2,23,460	79,423	.....	
.....	.....	236	.....	
1,59,137	1,47,224	40,532	.....	
53,046	53,046	17,682	.....	
1,06,091	94,173	22,850	.....	
45,001	31,870	-25,598	-8,245		
2,82,013	2,20,565	86,117	.....	
64	154	236	.....	
20,946	11,369	8,144	.....	
278	190	189	.....	
10,989	61,636	3,17,002	2,39,764		
13,88,371	18,55,404	16,70,495	7,19,489		
19,39,506	19,17,602	17,80,331	7,25,711		
562	508	136	.....	
61,090	62,303	48,448	8,245		
843	186	.....	.....
82,049	46,788	25,854	.....	
18,425	12,533	6,429	.....	
17,150	13,934	4,966	.....	
3,393	2,795	1,411	.....	
1,21,860	76,236	33,660	.....	
120	066	085	.....	
Cusecs.	Cusecs.	Cusecs.	Cusecs.		
.....		
.....		
1,725	1,680	.....	.....
56	69	55	.....	
Inches.	Inches.	Inches.	Inches.		
441	497	244	.....	
Miles.	Miles.	Miles.	Miles.		
95	92	94	.....	
84	82	95	.....	
118	119	45	.....	

but the mouth of its feeder, the Lundi Dhand, is being eroded by the river and the supply exception of sandy patches, almost all the cultivable land on it has been taken up. The bad owing to active erosion of the river, is causing anxiety.

MINOR WORKS AND NAVIGATION.

—
WORKS FOR WHICH CAPITAL AND REVENUE
ACCOUNTS ARE KEPT.

—
(SIND.)

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR WHICH
Name of Work—Sukkur Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
Area.		Acres.	Acres.	Acres.	
	1	Rice	50,041	54,534	55,658
	2	Jowari	20,035	15,559	16,977
	3	Kharif ... { Bajri	522	441	310
	4	{ Cotton	8	4	7
	5	{ Other crops	5,031	3,763	4,154
	6	Total Kharif ...	75,637	74,301	77,106
	7	Wheat	16,352	17,470	18,299
	8	Rabi ... { Barley	19	9	9
	9	{ Oil-seeds	13,367	6,634	4,831
	10	{ Other crops	32,106	33,393	29,001
	11	Total, Rabi ...	61,844	57,506	52,740
12	Total, Kharif and Rabi ...	137,481	131,807	129,846	
13	Dubari	40,874	41,837	41,097	
14	Jaghir	3,292	3,471	3,517	
15	Foreign ... ..	.....	.....	.....
16	Lift	12,451	10,162	9,803	
17	Flow	125,030	121,645	120,043	
Revenue.		Rs.	Rs.	Rs.	
	18	Estimated value of crops	29,67,324	27,91,799	25,14,065
	19	Irrigation share of Land Revenue (Indirect) ...	2,77,134	2,61,777	2,98,617
	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	4,187	4,078	4,408
	21	Gross Revenue (Direct and Indirect)	2,81,321	2,65,855	3,03,025
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	1,99,110	1,82,393	2,33,848
	24	Do. due to old works	71,444	71,444	71,444
	25	Do. due to improvements	1,27,666	1,10,949	1,62,404
	26	Balance of Net Revenue due to improvements after deducting interest charges	81,483	65,121	1,16,316
	27	Assessed Revenue (Direct and Indirect)	2,79,507	2,64,323	3,02,226
28	Remissions during year on Assessed Revenue ...	339	.....	.....
29	Unrealized balance to end of year	5,488	3,956	3,157	
30	Incidence of Assessed Revenue per acre	2.03	2.01	2.33	
Capital Account.	31	Capital Expenditure during the year ... ..	.....	.....	.....
	32	Do. to end of year	14,26,250	14,26,250	14,26,250
	33	Total sum at charge	16,17,688	15,36,205	14,71,084
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	8.95	7.78	11.39
	35	Interest Charges during year	46,183	45,828	46,088
Working Expenses.	36	Expenditure on Extensions and Improvements, Do. on Maintenance and Repairs	5,962	4,519	1,282
	37	Do. on Establishment	36,145	44,830	33,318
	38	Do. on Establishment	16,435	12,193	9,474
	39	Revenue Collection Charges	20,088	19,180	21,417
	40	Expenditure not included in above heads	3,581	2,740	3,686
	41	Total, Working Expenses ...	82,211	83,462	69,177
	42	Incidence of Working Expenses per Acre	0.60	0.63	0.53
Miscellaneous.		Cusecs.	Cusecs.	Cusecs.	
	43	Average discharge, Kharif	2,409	2,025	2,523
	44	Do. do. Rabi	370	282	603
	45	Do. Kharif and Rabi (when not separated) ... ..	.....	.....	.....
	46	Duty per Cusec, Kharif	31	36	30
	47	Do. Rabi	163	197	86
		Inches.	Inches.	Inches.	
	48	Rainfall	3.06	1.34	5.60
		Miles.	Miles.	Miles.	
	49	Length of Main Canal	74	74	74
50	Do. of Branch Canals	56	56	56	
51	Do. of Distributaries ... ..	.....	.....	.....

General Remarks.—The Canal worked satisfactorily. The area under rice cultivation is

1908-1909 TO 1910-1911.

CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
53,411	52,518	44,320	36,833	
17,524	16,972	17,327	21,025	
424	744	922	879	
6	41	16	20	
4,316	4,177	5,756	7,707	
75,681	74,452	68,341	66,464	
17,374	14,178	17,001	21,285	
12	20	36	33	
8,278	7,061	9,435	9,356	
31,700	30,855	27,865	21,374	
57,364	52,114	53,837	52,048	
133,045	126,566	122,178	118,512	
41,269	38,439	33,422	27,290	
3,427	2,531	2,570	2,590	
.....	
10,805	8,689	12,106	11,112	
122,240	117,877	110,072	107,400	
Rs.	Rs.	Rs.	Rs.	
27,57,729	26,02,847	15,91,365	21,31,557	
2,79,176	2,58,384	2,25,749	2,31,661	
4,225	3,980	2,320	2,951	
2,83,401	2,62,364	2,28,569	2,34,612	
.....	41	548	1,334	
2,05,117	1,68,631	1,36,503	1,74,275	
71,444	71,444	71,444	71,444	
1,38,673	97,187	65,059	1,02,331	
87,640	47,847	10,819	48,874	
2,82,090	257,631	2,40,221	2,43,922	
113	5,613	11,262	1,681	
4,201	13,522	31,830	18,018	
2'12	2'03	1'97	2'06	
.....	92	5,512	.....
14,26,250	14,26,250	14,25,974	14,09,439	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
14,71,084	16,49,282	17,42,087	18,44,590	
9'37	6'81	4'56	7'30	
46,033	49,340	54,240	53,957	
3,921	15,761	16,825	1,381	
38,098	38,817	38,290	30,154	
12,701	16,535	16,425	8,277	
20,228	18,997	16,952	17,283	
3,336	3,582	3,026	1,908	
78,284	93,692	91,518	59,003	
0'59	0'74	0'75	0'50	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
2,319	2,314	2,104	2,333	
418	566	443	281	
.....	
32	32	32'46	28'56	
149	112	100'25	159'30	
Inches.	Inches.	Inches.	Inches.	
3'33	4'37	3'40	1'67	
Miles.	Miles.	Miles.	Miles.	
74	74	74	74	} The figures in columns 6 to 9 represent lengths to end of triennial period.
56	56	56	56	
.....	

steadily increasing, and in 1910-11 it was nearly 43 per cent. of the total cultivation.

SIND TRIENNIAL REPORT

MINOR WORKS AND NAVIGATION—

Name of Work—Ghar Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	127,054	178,730	176,728
	2	Jowari	90,646	23,910	40,144
	3	Bajri	2,685	1,096	2,927
	4	Cotton	10	7	2
	5	Other crops	5,848	3,052	4,102
	6	Total, Kharif	226,248	206,795	223,903
	7	Wheat	32,419	24,301	29,339
	8	Barley	64	58	89
	9	Oil-seeds	48,958	24,465	31,375
	10	Other crops	63,997	85,223	80,717
	11	Total, Rabi	145,438	134,047	141,520
	12	Total, Kharif and Rabi ..	371,681	340,842	365,423
Revenue.	13	Dubari	90,002	110,509	110,025
	14	Jaghir	13,645	9,568	21,609
	15	Foreign ... ..	.....	.....	.....
	16	Lift	9,627	6,943	8,838
	17	Flow	362,054	334,499	356,585
	18	Estimated value of crops	73,09,412	68,27,602	91,29,630
	19	Irrigation share of Land Revenue (Indirect) ...	8,28,417	7,40,719	9,28,770
Capital Account.	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	12,976	16,040	13,848
	21	Gross Revenue (Direct and Indirect)	8,41,393	7,56,759	9,42,618
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	6,78,138	5,42,402	6,32,361
	24	Do due to old works	1,16,671	1,16,671	1,16,671
	25	Do. due to improvements	5,61,467	4,25,731	5,15,690
	26	Balance of Net Revenue due to improvements after deducting interest charges	5,43,136	4,07,541	4,97,397
	27	Assessed Revenue (Direct and Indirect)	8,39,297	7,53,523	9,47,727
	28	Remissions during year on Assessed Revenue ...	15,503	2,012	457
	29	Unrealized balance to end of year	18,503	13,255	18,122
	30	Incidence of Assessed Revenue per acre	2.26	2.21	2.59
Working Expenses.	31	Capital Expenditure during the year ... ..	.....	.....	.....
	32	Do. to end of year	5,72,386	5,72,356	5,72,386
	33	Total sum at charge	5,72,386	5,72,386	5,72,386
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year ...	98.09	74.38	90.09
	35	Interest Charges during year	18,331	18,190	18,293
Miscellaneous.	36	Expenditure on Extensions and Improvements. Do. on Maintenance and Repairs	2,533	3,140	4,175
	37	Do. on Establishment	74,797	1,20,795	1,84,428
	38	Revenue Collection Charges	29,167	33,798	51,886
	39	Expenditure not included in above heads	55,162	50,032	61,193
	40	.....	1,596	6,592	9,075
	41	Total, Working Expenses	1,63,255	2,14,357	3,10,257
	42	Incidence of Working Expenses per acre	0.44	0.63	0.85
	43	Average discharge, Kharif ... ..	.....	.....	.....
	44	Do. do. Rabi ... ..	.....	.....	.....
	45	Do. Kharif and Rabi (when not separated)	3,975	4,273	3,611
	46	Duty per Cusec, Kharif	92	77	100
	47	Do. Rabi ... ..	.....	.....	.....
	48	Rainfall	2.16	2.77	3.02
	49	Length of Main Canal	67	67	67
	50	Do. of Branch Canals	230	230	230
51	Do. of Distributaries ... ..	.....	.....	.....

General Remarks.—The slight decrease in cultivation and Revenue during the

1908-1909 to 1910-1911.

WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
160,837	177,328	165,133	130,892	
51,567	47,027	50,023	69,048	
2,236	1,975	2,865	3,835	
6	97	32	76	
4,334	4,586	4,079	5,129	
218,580	231,013	222,132	208,980	
28,636	19,545	28,654	29,996	
70	82	116	229	
94,933	29,583	30,933	30,973	
76,646	82,650	83,084	60,497	
140,335	131,860	147,787	121,695	
359,315	362,873	369,919	330,675	
103,512	100,778	102,223	74,068	
14,941	13,279	13,643	11,035	
.....	
8,269	5,701	6,131	8,084	
351,046	357,172	363,735	322,591	
Rs.	Rs.	Rs.	Rs.	
77,55,548	67,63,715	62,10,746	62,51,267	
8,32,635	7,81,121	7,61,304	7,15,877	
14,288	15,483	14,250	10,991	
8,46,923	7,96,604	7,75,554	7,26,863	
.....	80	86	49	
6,17,634	6,24,383	5,99,823	5,36,600	
1,16,671	1,16,671	1,16,671	1,16,671	
5,00,963	5,07,712	4,88,152	4,19,929	
4,82,691	4,89,000	4,65,878	4,03,225	
8,46,849	7,99,467	7,81,447	7,33,758	
5,991	3,407	3,607	236	
16,627	28,017	35,830	19,123	
2.36	2.20	2.11	2.22	
.....	24,595	15,889	3,319	
5,72,386	5,72,386	4,98,602	4,50,934	} The figures in columns 6 to 9 represent Capital expenditure to end of triennial period.
5,72,386	5,72,386	4,98,602	-1,16,93,750	
87.52	88.70	96.90	93.12	
18,272	18,712	17,274	16,701	
3,283	8,166	8,851	12,822	
1,26,673	78,637	77,853	95,382	
38,117	27,236	30,856	27,747	
55,462	52,530	51,413	48,534	
5,754	5,572	7,172	5,734	
2,29,289	1,72,191	1,75,645	1,90,219	
0.64	0.48	0.48	0.57	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	5,356	
.....	
3,953	3,732	.....	.....
90	94	72.84	34.75	
Inches.	Inches.	Inches.	Inches.	
2.65	4.00	3.03	2.20	
Miles.	Miles.	Miles.	Miles.	
67	67	67	67	} The figures in columns 6 to 9 represent lengths to end of triennial period.
230	230	229	229	
.....	

triennium ending 1910-11 is chiefly due to the unfavourable inundation of 1909.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR WHICH
Name of Work—Suttah Canal.

Particulars.		1908-09.	1909-10.	1910-11.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Arca.	1	Rice	9,056	11,394	13,158
	2	Jowari	35	21	2
	3	Bajri	5,296	3,339	2,565
	4	Cotton ... ..	.....	.....	.....
	5	Other crops	813	217	291
	6	Total Kharif	15,200	15,471	16,016
	7	Wheat	17	6	..
	8	Barley	1,341	675	415
	9	Oil-seeds	741	153	38
	10	Other crops	414	469	434
	11	Total Rabi	2,513	1,293	887
	12	Total Kharif and Rabi ..	17,713	16,764	16,903
Revenue.	13	Dubari	643	362	398
	14	Jaghir	129	149	161
	15	Foreign ... ..	.....	.....	.....
	16	Lift	4,730	3,901	2,674
	17	Flow	12,983	12,863	14,229
	18	Estimated value of crops	1,03,265	1,52,922	89,934
	19	Irrigation share of Land Revenue (Indirect) ...	23,880	36,384	27,284
Capital Account.	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	38	861	171
	21	Gross Revenue (Direct and Indirect)	23,918	37,245	27,455
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	4,434	10,373	1,878
	24	Do. due to old works	6,927	6,927	6,927
	25	Do. due to improvements	11,361	3,446	8,805
	26	Balance of Net Revenue due to improvements after deducting interest charges	17,214	2,391	14,681
	27	Assessed Revenue (Direct and Indirect)	24,000	39,240	26,313
	28	Remissions during year on Assessed Revenue ... ..	.....	.....	.....
	29	Unrealized balance to end of year... ..	3,323	5,318	4,176
	30	Incidence of Assessed Revenue per acre	1.35	2.34	1.56
Working Expenses.	31	Capital Expenditure during the year	1,449	1,858	48
	32	Do. to end of year	1,78,142	1,80,000	1,80,048
	33	Total sum at charge	1,95,356	1,90,753	2,05,482
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	6.38	1.91	4.89
	35	Interest Charges during year	5,353	5,337	5,376
Miscellaneous.	36	Expenditure on Extensions and Improvements. Do. on Maintenance and Repairs	601	76	1,566
	37	Do. on Establishment	20,707	21,644	19,888
	38	Revenue Collection Charges	4,844	2,804	5,307
	39	Expenditure not included in above heads	1,563	2,316	1,763
	40	.....	682	32	809
	41	Total Working Expenses	28,352	26,372	29,333
	42	Incidence of Working Expenses per acre	1.60	1.60	1.74
Miscellaneous.	43	Average discharge, Kharif ... ..	.....	.....	.....
	44	Do. Rabi ... ..	.....	.....	.....
	45	Do. Kharif and Rabi (when not separated). Duty per Cusec, Kharif	625	646	1,173
	46	Do. Rabi	18	25	10
	47	.....	.....	.....	.....
	48	Rainfall	24.62	3.37	15.90
	49	Length of Main Canal	31	31	32
50	Do. of Branch Canals	6	6	6	
51	Do. of Distributaries ... ..	.....	.....	.....

General Remarks.—The canal worked satisfactorily during the triennium and there was an is due to heavy rains having fallen in the month of July 1910 which the canal which silts heavily account for the minus percentage return

1908-1909 TO 1910-1911.

CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906. to 1907-1908.	1902-1903 to 904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres. (a)	Acres.	
11,203	9,672	2,287	(a) This work came into operation in 1904-05.
19	33	7	.....
3,900	3,047	608	.....
... ..	1	.....	.....
441	513	128	.....
15,568	13,266	3,028	.....
8	7	.....	.....
810	582	24	.....
311	194	30	.. ..
435	486	94	.....
1,564	1,269	148	.....
17,127	14,535	3,176	.....
468	508	85	.....
143	143	11	.....
.....	
3,769	3,077	714	.. ..
13,358	11,458	2,462	.....
Rs.	Rs.	Rs.	Rs.	
1,15,374	1,02,293	14,754	} The figures in columns 6 to 8 represent capital expenditure to end of triennial period.
29,183	31,099	5,797	.....
356	56	.....	.....
29,539	31,155	5,797	.....
.....	
1,354	14,642	4,386	.....
6,927	6,927	.....	.....
-5,573	7,715	4,386	.....
-11,428	2,162	3,098	.....
29,851	32,063	5,889	.....
.....	294	638	.....
4,272	2,202	429	.....
174	221	189	.....
1,118	8,893	59,005	.....
1,80,048	1,76,693	1,50,014	.....
2,05,482	1,85,575	1,50,575	.....
310	437	291	.....
5,855	5,553	1,288	.....
748	.....	.....	.....
20,746	13,375	1,030	.....
4,318	1,151	16	.....
1,882	2,008	317	.....
491	-21	18	.....
28,185	16,513	1,411	.....
164	114	044	.....
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	
.....	
815	580	.....	.....
18	24	16	.....
Inches.	Inches.	Inches.	Inches.	
1620	673	.....	.....
Miles.	Miles.	Miles.	Miles.	
32	31	.....	.....
6	6	.....	.....
.....	

increase in the area under kharif. The decrease in the estimated value of crops in 1910-11 damaged the young crops. The large sums of money spent on the clearance of the head of of Revenue.

SIND TRIENNIAL REPORT,
MINOR WORKS* AND NAVIGATION—WORKS FOR WHICH
Name of Work—Alibhar Kacheri Canal.

Particulars.		1908-1909,	1909-1910,	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	147	526	242
	2	Jowari	973	716	924
	3	Kharif ... { Bajri	7,600	7,821	7,620
	4	Cotton	2,283	2,424	2,866
	5	Other crops	234	281	239
	6	Total Kharif	11,237	11,768	11,891
	7	Rabi ... { Wheat	24	31	444
	8	Barley ... ..	.....	.....	.....
	9	Oil-seeds	206	130	3,871
	10	Other crops	88	124	122
	11	Total Rabi	318	285	4,437
	12	Total, Kharif and Rabi	11,555	12,053	16,328
Revenue.	13	Dubari	31	36	847
	14	Jaghir	1,213	1,217	1,181
	15	Foreign ... ..	.....	.....	.....
	16	Lift	10,684	10,736	10,797
	17	Flow	871	1,317	5,531
	18	Estimated value of crops	2,22,606	3,77,414	4,80,389
	19	Irrigation share of Land Revenue (Indirect)... ..	24,664	26,392	35,056
Capital Account.	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	505	630	723
	21	Gross Revenue (Direct and Indirect)	25,169	27,022	35,779
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	19,524	20,163	29,033
	24	Do. due to old works	8,289	8,239	8,239
	25	Do. due to improvements	11,285	11,924	20,844
	26	Balance of Net Revenue due to improvements after deducting interest charges	10,500	11,145	20,061
	27	Assessed Revenue (Direct and Indirect)	25,068	26,766	35,981
	28	Remissions during year on Assessed Revenue ... ..	.....	.....	.....
	29	Unrealized balance to end of year	751	496	697
Working Expenses.	30	Incidence of Assessed Revenue per acre	2.17	2.22	2.20
	31	Capital Expenditure during the year ... ..	.....	.....	.....
	32	Do. to end of year	23,917	23,917	23,917
	33	Total sum at charge	23,917	23,917	23,917
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	47.18	49.86	57.15
	35	Interest Charges during year	785	779	783
	36	Expenditure on Extensions and Improvements, Do. on Maintenance and Repairs	2,661	3,688	2,730
	37	Do. on Establishment	750	844	1,041
	38	Revenue Collection Charges	2,154	2,261	2,790
	39	Expenditure not included in above heads	80	66	135
40					
41	Total, Working Expenses	5,645	6,859	6,696	
42	Incidence of Working Expenses per acre	0.49	0.57	0.41	
Miscellaneous.	43	Average discharge, Kharif ... ..	.....	.....	.....
	44	Do. do, Rabi ... ..	.....	.....	.....
	45	Do. Kharif and Rabi (when not separated).	373	366	413
	46	Duty per Cusec, Kharif	31	33	39
	47	Do. Rabi ... ..	.....	.....	.....
	48	Rainfall	7.65	6.36	8.18
	49	Length of Main Canal	25	25	25
50	Do. of Branch Canals	33	33	33	
51	Do. of Distributaries ... ..	.....	.....	.....

General Remarks.—This is an old inundation Canal on

1908-1909 TO 1910-1911.

CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
305	440	48	135	
871	855	742	844	
7,681	7,976	7,266	7,046	
2,524	1,839	1,627	1,051	
251	199	459	441	
11,632	11,309	10,142	9,517	
167	29	12	37	
.....	
1,402	149	45	212	
111	94	92	139	
1,680	272	149	398	
13,312	11,581	10,291	9,905	
305	51	23	52	
1,204	1,544	1,266	1,299	
.....	
10,739	10,369	9,629	8,889	
2,573	1,212	662	1,016	
Rs.	Rs.	Rs.	Rs.	
3,60,136	2,27,100	1,95,889	1,97,277	
28,704	22,962	19,641	18,570	
619	1,513	679	423	
29,323	24,475	20,320	18,993	
.....	
22,923	16,572	10,332	11,348	
8,239	8,239	8,239	8,239	
14,634	8,333	2,593	3,109	
13,902	7,494	1,665	2,181	
29,272	24,422	20,157	19,210	
.....	
648	810	1,157	1,277	
2-20	2-11	1-96	1-94	
.....	
23,917	23,917	23,917	23,917	} The figures in columns 6 to 9 represent Capital expenditure to end of triennial period.
23,917	23,917	23,917	-3,225	
61-40	34-84	10-84	13-00	
782	839	928	928	
.....	1,013	93	32	
3,026	3,770	5,440	3,929	
878	950	1,804	1,583	
2,402	2,076	1,866	1,799	
94	95	268	243	
6,400	7,903	9,471	7,636	
0-48	0-69	0-92	0-77	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	287	
.....	
384	249	.....	.....
34	47	62-66	36-67	
Inches.	Inches.	Inches.	Inches.	
7-40	6-47	6-68	2-55	
Miles.	Miles.	Miles.	Miles.	
25	25	25	25	} The figures in columns 6 to 9 represent lengths to end of triennial period.
33	33	33	33	
.....	

which the cultivation is steadily increasing.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR WHICH

Name of Work—Marak Great Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
		Acres.	Acres.	Acres.
Area.	1 Rice	737	2,041	2,900
	2 Jowari	2,509	1,810	2,451
	3 Kharif. { Bajri	35,639	32,805	31,922
	4 { Cotton	20,446	18,305	21,494
	5 { Other crops	1,781	1,809	1,795
	6 Total Kharif	61,112	56,770	60,562
	7 Wheat	422	398	1,441
	8 Rabi ... { Barley ... ..	.....	.....	1
	9 { Oil-seeds	3,927	2,123	6,201
	10 { Other crops	609	790	1,044
	11 Total Rabi	4,958	3,311	8,687
	12 Total Kharif and Rabi	66,070	60,081	69,249
Revenue.	13 Dnbari	1,029	891	1,826
	14 Jaghir	6,734	6,327	7,499
	15 Foreign ... ..	.....	.....	.....
	16 Lift	32,700	39,755	40,531
	17 Flow	33,370	20,326	28,718
	18 Estimated value of crops	14,60,612	18,49,690	21,74,430
	19 Irrigation share of Land Revenue (Indirect)	1,55,637	1,45,320	1,61,511
Capital Account.	20 Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	3,987	2,404	3,959
	21 Gross Revenue (Direct and Indirect)	1,59,624	1,47,724	1,65,470
	22 Refunds ... ..	.....	.....	.....
	23 Net Revenue	1,25,708	1,12,001	1,18,621
	24 Do. due to old works	36,032	36,032	36,032
	25 Do. due to improvements	89,676	75,969	82,589
	26 Balance of Net Revenue due to improvements after deducting interest charges	82,656	69,003	75,584
	27 Assessed Revenue (Direct and Indirect)	1,61,150	1,45,444	1,66,863
	28 Remissions during year on Assessed Revenue ... ..	.....	14	.....
	29 Unrealized balance to end of year	8,027	5,733	6,383
	30 Incidence of Assessed Revenue per acre	2.44	2.42	2.41
Working Expenses.	31 Capital Expenditure during the year ... ..	.....	.....	.....
	32 Do. to end of year	2,15,746	2,15,746	2,15,746
	33 Total sum at charge	2,15,746	2,15,746	2,15,746
	34 Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	41.57	35.21	35.28
	35 Interest Charges during year	7,020	6,966	7,005
Miscellaneous.	36 Expenditure on Extensions and Improvements	1,296	.....	240
	37 Do. on Maintenance and Repairs	15,631	19,811	24,068
	38 Do. on Establishment	4,772	4,533	9,274
	39 Revenue Collection Charges	11,707	11,030	12,069
	40 Expenditure not included in above heads	510	349	1,198
	41 Total Working Expenses	33,916	35,723	46,849
42 Incidence of Working Expenses per acre	0.51	0.59	0.68	
Miscellaneous.	43 Average discharge, Kharif ... ..	.....	.....	.....
	44 Do. do. Rabi ... ..	.....	.....	.....
	45 Do. Kharif and Rabi (when not separated)	1,235	1,167	1,858
	46 Duty per Cusec, Kharif	53	51	37
	47 Do. Rabi ... ..	.....	.....	.....
	48 Rainfall	8.81	6.38	7.80
	49 Length of Main Canal	24	24	24
50 Do. of Branch Canals	149	149	149	
51 Do. of Distributaries ... ..	.....	.....	.....

General Remarks.—This is an old inundation canal which continues to work

1908-1909 TO 1910-1911.

CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
1,893	2,354	1,015	2,229	
2,257	2,552	2,202	3,330	
33,456	35,076	32,544	31,810	
20,081	18,590	15,968	12,750	
1,795	1,746	2,006	2,153	
59,482	60,328	53,735	52,272	
754	271	138	304	
1	1	.....	1	
4,083	1,040	705	1,078	
814	600	693	1,083	
5,652	1,912	1,436	2,471	
65,134	62,240	55,171	54,748	
1,082	288	93	211	
6,853	6,968	6,927	7,439	
.....	
37,662	38,700	35,982	35,460	
27,472	23,540	19,189	19,283	
Rs.	Rs.	Rs.	Rs.	
18,23,244	14,26,184	13,05,742	12,12,213	
1,54,156	1,43,970	1,15,297	1,11,405	
3,450	5,180	3,548	3,272	
1,57,606	1,49,150	1,18,845	1,14,677	
.....	.....	55	39	
1,18,777	1,07,473	75,438	68,341	
36,032	36,032	36,032	36,032	
82,745	71,441	39,456	32,309	
75,748	63,940	31,159	24,012	
1,57,812	1,49,455	1,19,544	1,14,781	
5	.....	55	39	
6,714	5,236	6,241	3,311	
242	240	217	210	
.....	
2,15,746	2,15,746	2,15,746	2,15,746	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
2,15,746	2,15,746	2,15,746	-5,54,867	
3835	3311	1829	1498	
8,997	7,501	8,297	8,297	
512	3,494	3,350	754	
19,837	20,591	21,313	24,738	
6,193	5,892	8,088	10,065	
11,602	11,018	9,348	9,149	
635	632	1,203	1,541	
38,829	41,677	43,302	46,297	
0.59	0.67	0.78	0.85	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	1,246	
.....	
1,420	794	.....	42.75	
47	78	61.47	.....
Inches.	Inches.	Inches.	Inches.	
7.66	6.65	7.46	3.01	
Miles.	Miles.	Miles.	Miles.	
24	24	24	24	} The figures in columns 6 to 9 represent lengths to end of triennial period.
149	149	149	142	
.....	

satisfactorily. The area of cultivation shows a satisfactory increase.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR WHICH
Name of Work—Surfrazwah.

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
		Acres.	Acres.	Acres.
Area.	1	273	1,156	1,528
	2	755	465	413
	3	25,915	22,478	18,077
	4	6,784	7,454	7,804
	5	844	1,112	1,070
	6	34,521	32,665	28,892
	7	372	383	331
	8	1	1	.....
	9	2,157	307	180
	10	882	514	803
	11	3,412	1,205	1,314
	12	37,933	33,870	30,206
Revenue.	13	565	99	52
	14	6,637	6,279	4,277
	15	.....	.....	.....
	16	32,487	30,517	26,570
	17	5,446	3,353	3,636
	18	5,45,267	6,69,805	6,10,917
	19	61,819	58,640	55,942
Capital Account.	20	1,585	3,576	1,061
	21	63,404	62,216	58,005
	22	.....	.....	.....
	23	39,939	40,712	36,863
	24	10,985	10,985	10,985
	25	28,954	29,727	25,878
	26	24,942	25,746	21,874
	27	65,521	59,312	57,310
	28	.....	.....	.....
	29	8,052	5,148	7,156
	30	1.75	1.75	1.90
Working Expenses.	31	.....	.....	.....
	32	1,24,680	1,24,680	1,24,680
	33	1,24,680	1,24,680	1,24,680
	34	23.22	23.84	20.76
	35	4,012	3,981	4,004
	36	1,980	.....	1,284
Miscellaneous.	37	11,770	13,055	10,607
	38	4,087	3,147	4,536
	39	4,444	4,366	4,128
	40	1,184	936	585
	41	23,465	21,504	21,140
	42	0.62	0.63	0.70
	43	.....	.....	.....
44	.....	.....	.....
45	899	816	1,173	
46	42	42	26	
47	.....	.....	.....
48	18.03	6.79	9.41	
49	80	80	80	
50	31	31	31	
51	.....	.....	.....

General Remarks.—An old inundation Canal. The area under cultivation, both Kharif and particularly high one.

1908-1909 to 1910-1911.

CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906. to 1907-1908.	1902-1903. to 1904-1905.	899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
986	533	415	91	
544	681	427	722	
22,157	19,221	18,510	18,690	
7,331	6,701	5,473	3,751	
1,008	1,125	1,571	1,321	
32,026	28,261	26,396	24,575	
362	318	140	429	
1	.....	3	6	
881	891	279	679	
733	654	526	320	
1,977	1,863	943	1,034	
34,003	30,124	27,344	26,509	
239	179	187	276	
5,731	4,222	5,213	5,179	
.....	
29,853	26,362	24,718	23,201	
4,145	3,762	2,626	3,308	
Rs.	Rs.	Rs.	Rs.	
6,08,663	5,92,093	5,04,756	5,15,679	
59,134	53,237	42,608	39,767	
2,074	3,453	1,864	1,535	
61,208	56,690	44,472	41,302	
.....	
39,171	27,479	24,527	21,884	
10,985	10,985	10,985	10,985	
23,136	16,494	13,542	10,899	
24,187	12,207	8,800	6,157	
60,714	56,777	45,303	41,327	
.....	
6,785	7,343	5,234	3,027	
1-79	1-88	1-66	1-66	
.....	
1,24,680	1,24,680	1,24,680	1,24,680	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
1,24,680	1,24,680	1,24,680	59,245	
22-61	13-23	10-86	8-74	
3,999	4,287	4,742	4,742	
1,038	7,687	400	121	
11,811	12,441	11,620	11,054	
3,923	4,354	3,992	4,400	
4,313	3,956	3,332	3,155	
902	773	597	680	
22,037	29,211	19,941	19,410	
0-65	0-98	0-73	0-73	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	436	
.....	
963	421	.....	.....
37	81	93-97	59-22	
Inches.	Inches.	Inches.	Inches.	
11-41	9-58	8-37	3-62	
Miles.	Miles.	Miles.	Miles.	
80	80	80	80	} The figures in columns 6 to 9 represent lengths to end of triennial period.
31	31	28	28	
.....	

Babi, has not fluctuated much. The cultivation is mostly lift. The inundation of 1908 was a

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—

Name of Work—Fuleli Canal.

Particulars		1908-1909.	1909-1910.	1910-11.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	183,484	211,227	212,308
	2	Jowari	2,877	2,178	3,327
	3	Bajri	115,012	83,244	74,299
	4	Cotton	20,927	17,524	23,571
	5	Other crops	8,173	7,565	7,773
	6	Total Kharif	330,473	321,738	321,278
	7	Wheat	8,169	13,233	9,409
	8	Barley	1,485	2,364	1,239
	9	Oil-seeds	27,229	18,688	16,044
	10	Other crops	12,809	14,820	16,646
	11	Total Rabi	49,692	49,105	48,338
12	Total Kharif and Rabi	380,165	370,843	364,616	
13	Dubari	6,085	4,379	4,109	
14	Jaghir	65,508	61,368	59,611	
15	Foreign ... ..	.....	.....	.....
16	Lift	126,195	103,866	101,367	
17	Flow	253,970	266,977	263,249	
		Rs.	Rs.	Rs.	
Revenue.	18	Estimated value of crops	63,00,479	62,78,336	57,88,772
	19	Irrigation share of Land Revenue (Indirect)... ..	7,03,973	7,68,509	7,58,700
	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	40,759	44,601	47,614
	21	Gross Revenue (Direct and Indirect)	7,44,732	8,13,110	8,06,314
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	5,38,702	5,42,120	5,08,317
	24	Do. due to old works	1,28,188	1,28,188	1,28,188
	25	Do. due to improvements... ..	4,10,514	4,13,932	3,80,129
	26	Balance of Net Revenue due to improvements after deducting interest charges	3,45,763	3,49,678	3,15,512
	27	Assessed Revenue (Direct and Indirect)	7,62,090	7,83,550	7,72,241
28	Remissions during year on Assessed Revenue .	57	91	24	
29	Unrealized balance to end of year	91,706	62,055	27,960	
30	Incidence of Assessed Revenue per acre	2'00	2'11	2'12	
Capital Account.	31	Capital Expenditure during the year ... ..	.....	.....	.....
	32	Do. to end of year	19,84,661	19,84,661	19,84,661
	33	Total sum at charge	19,84,661	19,84,661	19,84,661
	34	Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	20'68	20'86	19'15
	35	Interest Charges during year	64,751	64,254	64,617
Working Expenses.	36	Expenditure on Extensions and Improvements.	2,616	5,091	4,590
	37	Do. on Maintenance and Repairs	1,14,183	1,58,006	1,72,671
	38	Do. on Establishment	31,202	43,997	55,470
	39	Revenue Collection Charges	53,065	57,135	56,816
	40	Expenditure not included in above heads	4,964	6,761	8,450
	41	Total Working Expenses	2,06,030	2,70,990	2,97,997
42	Incidence of Working Expenses per acre	0'54	0'73	0'82	
Miscellaneous.	43	Average discharge, Kharif	Cusecs.	Cusecs.	Cusecs.
	44	Do. do. Rabi	5,626	6,568	6,631
	45	Do. Kharif and Rabi (when not separated.)	737	1,059	818
	46	Duty per Cusec, Kharif ... ..	.....	.....	.....
	47	Do. Rabi	57	49	48
			66	45	53
	48	Rainfall	Inches.	Inches.	Inches.
			18'52	10'42	15'50
	49	Length of Main Canal	Miles.	Miles.	Miles.
50	Do. of Branch Canals	98	98	98	
51	Do. of Distributaries	889	889	889	
		35	35	35	

General Remarks.—The area cultivated is not much below the average

1903-1909 to 1910-1911.

WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
202,340	183,707	175,603	201,353	
2,794	3,456	3,398	6,017	
90,851	98,120	86,601	93,094	
20,674	23,985	20,277	12,826	
7,837	8,419	10,374	9,207	
324,496	317,687	236,253	322,497	
10,270	20,046	16,644	8,439	
1,696	2,496	2,327	1,743	
20,654	32,720	25,468	35,154	
14,758	13,650	13,535	19,447	
47,378	68,912	57,974	64,783	
371,874	336,599	354,227	387,280	
4,841	5,502	5,549	8,624	
62,162	65,414	65,676	71,086	
.....	
110,476	112,512	111,486	337,280	
261,398	273,972	242,741		
Rs.	Rs.	Rs.	Rs.	
61,22,529	63,01,164	48,87,104	46,84,810	
7,43,727	7,13,517	6,13,378	6,55,569	
44,325	52,649	49,786	45,931	
7,88,052	7,66,166	6,63,164	7,02,500	
.....	.....	265	609	
5,29,713	5,61,823	4,50,630	4,49,330	
1,28,188	1,28,188	1,28,188	1,23,188	
4,01,525	4,33,640	3,22,442	3,21,142	
3,36,984	3,64,781	2,54,386	2,56,062	
7,72,627	7,70,945	6,59,310	7,06,459	
57	92	784	697	
60,674	51,522	53,311	56,876	
2.08	1.99	1.86	1.82	
.....	57,382	50,254	24,556	
19,84,661	19,84,661	18,61,503	17,10,740	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
19,84,661	19,84,661	18,61,503	-15,16,336	
20.23	21.85	17.32	18.77	
64,541	68,859	68,056	65,080	
4,099	6,399	1,456	4,383	
1,48,287	1,00,260	1,21,738	1,48,301	
43,556	37,556	33,742	41,783	
55,672	53,992	48,079	50,770	
6,725	6,131	7,254	7,324	
2,58,339	2,04,338	2,12,269	2,52,561	
0.69	0.53	0.60	0.65	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
6,275	6,050	5,624	6,590	
881	1,062	1,244	628	
.....	
51	55	52.57	52.42	
55	66	56.33	89.54	
Inches.	Inches.	Inches.	Inches.	
14.81	7.82	7.39	3.32	
Miles.	Miles.	Miles.	Miles.	
98	98	93	98	} The figures in columns 6 to 9 represent lengths to end of triennial period.
889	888	906	946	
35	35	20	5	

of the past three triennia. The Canal continues to work well.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR WHICH
Name of Work—Hasanali Canal.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
Area.		Acres.	Acres.	Acres.	
	1	Rice	10,861	11,998	13,407
	2	Jowari	76	69	31
	3	Kharif ... { Bajri	4,928	4,894	3,699
	4	Cotton	267	72	285
	5	Other crops	361	407	416
	6	Total Kharif	16,433	17,440	17,838
	7				
	8	Rabi ... { Wheat ... ..	.....	36	8
	9	Barley	39	16	21
	10	Oil-seeds	475	214	179
	11	Other crops	179	79	93
	11	Total Rabi	693	345	301
	12	Total Kharif and Rabi	17,126	17,785	18,139
	13	Dubari	112	35	58
	14	Jaghir	730	810	635
	15	Foreign ... ..	.....	.....	.....
16	Lift	5,170	5,115	4,240	
17	Flow	11,956	12,670	13,899	
Revenue.		Rs.	Rs.	Rs.	
	18	Estimated value of crops	4,90,244	5,09,386	3,75,487
	19	Irrigation share of Land Revenue (Indirect)	33,569	42,630	53,179
	20	Water-rates on Jaghir land and Miscellaneous Receipts (Direct)	939	617	391
	21	Gross Revenue (Direct and Indirect)	34,508	43,247	53,570
	22	Refunds ... ..	.....	.....	.....
	23	Net Revenue	7,549	17,271	30,719
	24	Do. due to old works	2,458	2,458	2,458
	25	Do. due to improvements	5,091	14,813	28,261
	26	Balance of Net Revenue due to improvements after deducting interest charges	-4,096	5,434	18,758
	27	Assessed Revenue (Direct and Indirect)	39,270	45,065	39,476
	28	Remissions during year on Assessed Revenue ... ..	.....	.....	.....
	29	Unrealized balance to end of year	5,905	7,723	890
	30	Incidence of Assessed Revenue per acre	2.29	2.53	2.18
	31	Capital Expenditure during the year	11,712	4,318	.....
	32	Do. to end of year	2,90,527	2,94,845	2,94,845
	Capital Account.	33	Total sum at charge	2,94,623	2,94,845	2,94,845
34		Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year	1.75	5.02	9.59
35		Interest Charges during year	9,187	9,379	9,503
36		Expenditure on Extensions and Improvements. Do. on Maintenance and Repairs	5,694	863	.....
37		Do. on Establishment	13,308	16,979	14,425
38		Do. on Establishment	5,117	4,808	4,516
39		Revenue Collection Charges	2,064	2,622	3,242
40		Expenditure not included in above heads	776	704	668
41		Total Working Expenses	26,959	25,976	22,851
42		Incidence of Working Expenses per acre	1.58	1.46	1.26
Working Expenses.		Cusecs.	Cusecs.	Cusecs.	
	43	Average discharge, Kharif ... ..	.....	.....	.....
	44	Do. do. Rabi ... ..	.....	.....	.....
	45	Do. Kharif and Rabi (when not separated)	370	660	515
	46	Duty per Cusec, Kharif	43	27	30
	47	Do. Rabi ... ..	.....	.....	.....
	48	Rainfall	19.15	5.07	18.02
			Inches.	Inches.	Inches.
	49	Length of Main Canal	35	35	35
	50	Do. of Branch Canals	46	46	46
51	Do. of Distributaries	19	19	19	
		Miles.	Miles.	Miles.	

General Remarks.—This canal came into operation in 1903-04 and the cultivation is

1908-1909 TO 1910-1911.

CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	(a) Acres.	Acres.	(a) This work came into operation in 1903-1904.
13,088	11,242	6,954	.....
59	257	318	.....
4,507	4,642	2,592	.....
188	241	179	.....
395	316	837	.....
17,237	16,698	10,410	.....
15	38	48	.....
25	6	3	.....
289	269	194	.....
117	104	52	.....
446	417	297	.....
17,683	17,115	10,707	.....
68	91	42	.....
725	506	514	.....
.....	
4,842	5,096	3,293	.....
12,841	12,019	7,414	.....
Rs.	Rs.	Rs.	Rs.	
4,58,372	3,24,488	2,70,261	.....
43,126	35,429	21,057	.....
649	787	315	.....
43,775	36,216	21,372	.....
.....	
18,513	10,714	14,048	.....
2,458	2,458	820	.....
16,055	8,256	13,228	.....
6,699	-1,000	7,482	.....
41,270	32,492	24,681	.....
.....	.....	1	.....
4,819	654	7,393	.....
2,333	1,90	2,31	.....
5,343	8,258	84,681	.....
2,94,845	2,78,815	2,54,042	.....	} The figures in columns 6 to 8 represent Capital Expenditure to end of triennial period.
2,94,845	285,772	2,54,042	.....
5.45	2.96	5.21	.....
9,356	9,256	5,746	.....
2,186	3,833	86	.....
14,904	12,764	4,445	.....
4,814	5,806	1,251	.....
2,642	2,199	1,289	.....
716	900	252	.....
25,262	25,502	7,323	.....
1.43	1.49	0.68	.....
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	
.....	
515	562	.....	.....
33	31	31	.....
Inches.	Inches.	Inches.	Inches.	
14.08	6.34	.....	.....
Miles.	Miles.	Miles.	Miles.	
35	35	35	.....	} The figures in columns 6 to 8 represent lengths to end of triennial period.
46	43	44	.....
19	19	19	.....

about the average. The cultivation is mostly flow.

MINOR WORKS AND NAVIGATION.

**WORKS FOR WHICH ONLY REVENUE
ACCOUNTS ARE KEPT.**

(S I N D .)

SIND TRIENNIAL REPORT,

MINOR WORKS AND NAVIGATION—WORKS

Name of District—Shikárpur Canals.

Particulars.		1908-1909.	1909-1910.	1910-1911.		
1	2	3	4	5		
		Acres.	Acres.	Acres.		
Area.	1	Rice ...	45,270	47,094	47,420	
	2	Jowári	81,117	44,555	61,767	
	3	Kharif ... {	Bájrí ...	4,168	3,888	3,883
	4		Cotton ...	426	350	367
	5		Other crops .	8,382	7,538	9,008
	6		Total, Kharif ...	139,363	103,425	122,445
	7	Rabi ... {	Wheat ...	46,537	37,993	47,252
	8		Barley ...	125	195	270
	9		Oil seeds ...	12,510	7,754	6,262
	10		Other crops .	30,532	25,872	33,524
	11	Total, Rabi ...	89,704	71,814	87,308	
	12	Total, Kharif and Rabi ...	229,067	175,239	209,753	
13	Jaghir ...	21,493	17,506	20,431		
14	Foreign ...	180	270	142		
		Rs.	Rs.	Rs.		
Revenue.	15	Estimated value of crops ...	53,88,885	39,77,341	41,78,225	
	16	Gross Revenue, Direct and Indirect (Actuals) ...	6,18,393	4,90,626	5,81,302	
	17	Net Revenue (Actuals) ...	4,62,784	3,67,652	4,19,845	
Working Expenses.	18	Expenditure on Extensions and Improvements ...	11,251	4,957	912	
	19	Do. on Maintenance and Repairs ...	1,06,776	97,863	1,17,344	
	20	Do. on Establishments ...	1,912	—8,428	9,453	
	21	Revenue Collection Charges ...	36,036	28,401	33,495	
	22	Expenditure not included in above heads ...	—363	181	253	
	23	Total, Working Expenses ...	1,55,609	1,22,974	1,61,457	
	24	Incidence of Working Expenses per acre ...	0.68	0.70	0.77	
		Miles.	Miles.	Miles.		
Miscellaneous.	25	Length of Main Canals ...	192	191	190	
	26	Length of Branch Canals ...	90	90	90	
	27	Length of Bunds ...	.....	.....	.....

General Remarks.—The Canals are old and not susceptible of much improvement. Their 1908-09 were considerably above the average,

1908-1909 to 1910-1911.

FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Right and Left Banks.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
46,595	46,281	34,345	44,199	
62,479	72,238	83,942	93,655	
8,980	5,903	12,617	8,698	
381	895	797	1,025	
8,309	9,139	9,469	13,085	
121,744	134,456	141,170	160,662	
43,927	39,053	34,223	37,441	
197	142	91	232	
8,842	8,937	4,949	6,159	
29,976	24,749	17,262	14,752	
82,942	72,881	56,525	58,584	
204,686	207,337	197,695	219,246	
19,810	19,522	18,409	17,966	
197	222	75	26	
Rs.	Rs.	Rs.	Rs.	
45,14,817	45,86,520	30,52,044	48,49,265	
5,63,440	5,70,416	4,75,218	5,11,404	
4,16,760	3,98,331	3,13,778	3,28,831	
5,707	20,161	34,108	71,719	
1,07,328	99,828	1,12,024	76,184	
979	19,331	-11,942	4,306	
32,644	33,177	27,517	29,881	
22	-413	-267	483	
1,46,680	1,72,085	1,61,440	1,82,573	* Transferred to "Works for which neither Capital nor Revenue Accounts are kept."
0.71	0.83	0.82	0.83	
Miles.	Miles.	Miles.	Miles.	
190	192	336	330	
90	90	87	91	The figures in columns 6 to 9 represent lengths to end of triennial period.
.....	.....	.....*	62	

success or otherwise is entirely dependent on the nature of the Abkalani. The results of those in 1909-10 poor, and those in 1910-11 averagedly good.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS

Name of District—Western Nara Canals.

Particulars.		1908-1909.	1909-1910.	1910-1911.		
1	2	3	4	5		
		Acres.	Acres.	Acres.		
Area.	1	Rice ...	136,809	161,838	159,528	
	2	Jowari ...	100,404	50,443	73,278	
	3	Kharif ...	Bajri ...	8,249	14,809	9,578
	4		Cotton ...	162	174	350
	5		Other crops.	4,795	4,045	4,926
	6		Total Kharif ...	250,219	231,309	247,660
	7	Rabi ...	Wheat ...	59,947	41,904	59,082
	8		Barley ...	2,505	1,235	2,433
	9		Oil-seeds ...	48,225	86,942	57,788
	10		Other crops.	57,657	70,604	66,808
	11	Total Rabi ...	168,334	150,685	186,111	
	12	Total Kharif and Rabi ...	418,553	381,994	433,771	
	13	Jaghir ...	17,807	14,881	16,678	
		Rs.	Rs.	Rs.		
Revenue.	14	Estimated value of crops ...	98,77,005	87,03,929	84,88,601	
	15	Gross Revenue, Direct and Indirect (Actuals) ...	10,62,219	9,60,111	10,44,687	
	16	Net Revenue (Actuals) ...	8,53,765	7,61,310	8,21,802	
Working Expenses.	17	Expenditure on Extensions and Improvements ...	13,663	5,874	4,115	
	18	Do. on Maintenance and Repairs ...	92,035	95,971	1,05,363	
	19	Do. on Establishments ...	39,615	40,021	51,369	
	20	Revenue Collection Charges ...	62,101	55,961	60,943	
	21	Expenditure not included in above heads ...	1,040	974	1,090	
	22	Total Working Expenses ...	2,08,454	1,98,801	2,22,885	
	23	Incidence of Working Expenses per Acre ...	0.50	0.52	0.51	
		Miles.	Miles.	Miles.		
Miscellaneous.	24	Length of Main Canals ...	348	348	348	
	25	Length of Branch Canals ...	325	325	326	

General Remarks.—The results for the triennium are satisfactory except for the the crops. During 1908-09 and 1910-11, the results would have

1908-1909 to 1910-1911.

FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
152,658	126,024	86,932	102,630	
74,708	93,518	93,247	103,509	
10,879	11,358	14,332	9,459	
229	299	304	138	
4,589	4,082	4,008	4,161	
243,063	235,281	198,823	219,897	
53,644	59,658	46,888	54,445	
2,058	1,960	1,028	1,424	
47,651	43,675	29,511	31,870	
65,023	53,141	31,904	38,449	
168,376	158,434	109,331	126,188	
411,439	393,715	308,154	346,085	
16,455	19,114	15,774	17,243	
Rs.	Rs.	Rs.	Rs.	
90,23,178	85,32,470	52,00,520	69,45,112	
10,22,339	9,86,360	6,83,034	7,97,215	
8,12,293	7,46,244	3,38,568	5,76,902	
7,884	41,078	1,33,975	22,753	
97,791	93,418	1,20,501	1,02,495	
43,668	47,297	49,743	47,800	
59,668	57,618	39,778	46,465	
1,035	705	469	800	
2,10,046	2,40,116	3,44,466	2,20,313	
0.51	0.61	1.12	0.64	
Miles.	Miles.	Miles.	Miles.	
348	351	311	268	
326	316	347	321	

The figures in columns 6 to 9 represent lengths to end of triennial period.

year 1909-10 when there was a low and fluctuating river and a sudden fall which affected been better than they are, had not rain and hill floods damaged the standing crops.

SIND TRIENNIAL REPORT

MINOR WORKS AND NAVIGATION—WORKS

Name of District—Karachi Canals.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice	153,368	166,752	193,072
	2	Jowári	1,194	994	1,315
	3	Kharif ... Bájri	29,761	22,275	13,814
	4	Cotton	11	2	7
	5	Other crops	5,384	5,349	4,029
	6	Total, Kharif	189,718	195,372	212,237
	7	Rabi ... Wheat	426	160	182
	8	Barley	24,117	11,326	10,895
	9	Oil-seeds	14,844	7,564	6,162
	10	Other crops	14,839	14,002	18,323
	11	Total, Rabi	54,226	33,052	35,562
	12	Total, Kharif and Rabi	243,944	228,424	247,799
	13	Jaghir	7,533	7,796	6,584
		Rupees.	Rupees.	Rupees.	
Revenue.	14	Estimated value of crops	13,02,118	20,59,136	13,30,139
	15	Gross Revenue, Direct and In-direct (Actuals)	3,32,610	4,63,573	3,41,367
	16	Net Revenue (Actuals)	73,273	2,16,684	87,076
Working Expenses.	17	Expenditure on Extensions and Improvements	11,590	28,226	23,243
	18	Do. on Maintenance and Repairs	1,80,236	1,69,001	1,64,588
	19	Do. on Establishments	43,648	25,869	46,177
	20	Revenue Collection Charges	19,285	27,007	19,706
	21	Expenditure not included in above heads	—422	—3,214	577
	22	Total, Working Expenses	2,54,337	2,46,889	2,54,291
	23	Incidence of Working Expenses per Acre	1.04	1.08	1.03
		Miles.	Miles.	Miles.	
Miscellaneous.	24	Length of Main Canals	454	454	455
	25	Length of Branch Canals	477	477	479
	26	Length of Bunds ... ..	.....	.....	.....

General Remarks.—These are old badly aligned inundation canals. The decrease in the to floods caused by excessive rain as well as floods through breaches in river embankments. irrigated area in 1909-10 was due to the low inundation and the decrease in the net young crops.

1908-1909 TO 1910-1911.

FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Right and Left Banks.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
171,064	160,567	140,663	192,153	
1,168	1,109	1,664	3,507	
21,950	19,622	20,887	16,729	
7	87	43	29	
4,920	4,375	5,421	5,216	
199,109	185,760	168,678	217,634	
256	299	387	1,609	
15,446	7,142	3,308	2,236	
9,523	6,626	5,957	4,797	
15,722	10,777	8,068	15,110	
40,947	24,844	17,720	23,752	
240,056	210,604	186,398	241,386	
7,304	7,638	6,596	10,241	
Rupees.	Rupees.	Rupees.	Rupees.	
15,63,798	14,47,158	11,18,120	16,58,686	
3,79,183	4,16,662	3,69,466	4,03,793	
1,27,344	1,52,731	1,21,413	82,688	
21,020	18,884	62,447	59,019	
1,71,275	2,03,635	1,26,838	1,70,073	
38,565	20,140	37,580	67,292	
21,999	24,381	21,628	23,357	
-1,020	-3,109	-440	864	
2,51,839	2,63,931	2,48,053	3,21,105	* Transferred to "Works for which neither Capital nor Revenue Accounts are kept."
1.05	1.25	1.33	1.33	
Miles.	Miles.	Miles.	Miles.	
455	437	480	524	The figures in columns 6 to 9 represent lengths to end of triennial period.
479	477	484	485	
.....	.....	*.....	160	

net Revenue in 1908-09 was due to heavy remissions which amounted to Rs. 1,82,392 due to the rainfall was abnormal and did much damage to crops, &c. The decrease in the Revenue in 1910-11 was also due to remissions chiefly caused by rains which damaged the

SIND TRIENNIAL REPORT,

MINOR WORKS AND NAVIGATION—WORKS

Name of District—Northern Hyderabad Canals.

Particulars.		1908-1909.	1909-1910.	1910-1911.			
1	2	3	4	5			
Area.		Acres.	Acres.	Acres.			
		1	Rice	1,882	3,691	5,351	
		2	Jowari	56,044	48,177	48,360	
		3	Kharif ... { Bajri	15,465	20,183	19,078	
		4	{ Cotton	303	543	2,477	
		5	{ Other crops	3,444	3,902	5,732	
		6	Total, Kharif	77,138	76,496	80,998	
		7	Rabi ... {	Wheat	9,451	8,567	9,822
		8		Barley	401	249	240
		9		Oil-seeds	7,639	1,424	5,871
		10		Other crops	2,085	1,520	2,086
		11	Total, Rabi	19,576	11,760	18,019	
		12	Total, Kharif and Rabi	96,714	88,256	99,017	
13	Jaghir	4,482	4,497	4,358			
Revenue.		Rupees.	Rupees.	Rupees.			
		14	Estimated value of crops	13,12,101	13,88,720	14,44,919	
		15	Gross Revenue, Direct and In-direct (Actuals)	2,43,221	2,18,699	2,44,146	
16	Net Revenue (Actuals)	1,08,876	1,30,339	1,19,409			
Working Expenses.		17	Expenditure on Extensions and Improvements	51,684	8,769	10,294	
		18	Do. on Maintenance and Repairs	42,488	50,715	81,525	
		19	Do. on Establishments	25,174	15,671	17,730	
		20	Revenue Collection Charges	14,402	12,910	14,446	
		21	Expenditure not included in above heads	597	295	742	
		22	Total, Working Expenses	1,34,345	88,360	1,24,737	
		23	Incidence of Working Expenses per Acre	1.39	1.00	1.26	
Miscellaneous.		Miles.	Miles.	Miles.			
		24	Length of Main Canals	117	117	117	
25	Length of Branch Canals	149	149	149			

General Remarks.—The principal canals are the Naulakhi, Dambro and Mehrab. possible to show a proper comparison of results of the triennia ending 1901-02 and previous two years, or of the triennium ending 1910-11 with those of the previous one.

1908-1909 to 1910-1911.

FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
3,641	2,174	1,732	2,292	
50,860	44,594	50,629	77,352	
18,242	18,443	19,270	41,632	
1,108	383	219	1,266	
4,360	4,106	7,003	16,960	
78,211	69,700	78,853	1,39,502	
9,280	8,002	6,294	12,982	
297	386	124	363	
4,978	2,707	2,164	7,703	
1,897	1,687	1,187	2,562	
16,452	12,782	9,769	23,610	
94,663	82,482	88,622	163,112	
4,446	3,670	4,230	9,067	
Rupees.	Rupees.	Rupees.	Rupees.	
13,81,913	12,87,719	13,53,775	33,58,220	
2,35,355	1,98,082	2,04,508	3,19,183	
1,19,541	1,23,577	1,14,015	2,07,489	
23,582	3,610	148	4,801	
58,243	45,604	62,849	71,837	
19,525	13,140	15,134	16,278	
13,919	11,718	12,055	18,790	
545	433	307	488	
1,15,814	74,505	90,493	1,11,694	
1.22	0.90	1.02	0.68	* Decrease due to a straight diversion being made in place of a bend which was cut into by the river.
Miles.	Miles.	Miles.	Miles.	
117	*117	120	120	
149	149	151	191	The figures in columns 6 to 9 represent lengths to end of triennial period.

Owing to the transfer of Dad and Nasrat to "Major Works" in 1901-02 and 1903-04, it is not 1904-05, but the result is certainly favourable comparing the results of 1910-11 with

SIND TRIENNIAL REPORT,

MINOR WORKS AND NAVIGATION—WORKS

Name of District—Central Hyderabad Canals.

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Area.	1	Rice ...	135	242	701
	2	Jowári ...	4,326	3,327	4,017
	3	Bájri ...	105,308	91,793	85,078
	4	Cotton ...	34,380	37,060	41,423
	5	Other crops ...	4,228	5,940	5,022
	6	Total Kharif ...	148,377	138,362	136,241
	7	Wheat ...	3,484	3,879	6,942
	8	Barley ...	2	10	4
	9	Oil-seeds ...	9,610	5,106	13,252
	10	Other crops ...	4,685	5,512	5,879
	11	Total Rabi ...	17,781	14,507	26,077
	12	Total, Kharif and Rabi ...	166,158	152,869	162,318
	13	Jaghir ...	24,881	22,237	22,027
		Rupees.	Rupees.	Rupees.	
Revenue.	14	Estimated value of crops ...	31,14,924	38,64,017	41,73,006
	15	Gross Revenue, Direct and Indirect (Actuals) ...	3,30,296	3,32,602	3,52,286
	16	Net Revenue (Actuals) ...	2,38,366	2,46,532	2,62,141
Working Expenses.	17	Expenditure on Extensions and Improvements ...	1,457	3,401	3,807
	18	Do. on Maintenance and Repairs ...	56,107	51,556	46,867
	19	Do. on Establishments ...	16,090	12,576	19,164
	20	Revenue Collection Charges ...	18,810	19,335	20,516
	21	Expenditure not included in above heads ...	—534	—798	—209
	22	Total Working Expenses ...	91,930	86,070	90,145
	23	Incidence of Working Expenses per acre ...	0.55	0.56	0.55
		Miles.	Miles.	Miles.	
Miscellaneous.	24	Length of Main Canals ...	148	148	148
	25	Length of Branch Canals ...	441	441	441

General Remarks.—The principal canals are the Ren, Gharo-Mahmudo, Kari increase compared with the

1908-1909 to 1910-1911.

FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
359	325	303	279	
3,890	5,340	5,094	5,889	
94,060	93,891	91,813	87,565	
37,621	35,721	32,860	23,622	
5,063	5,122	6,541	6,319	
140,993	140,399	136,611	123,674	
4,768	2,833	1,721	1,909	
5	10	2	9	
9,323	5,523	2,663	4,227	
5,359	3,156	4,193	6,526	
19,455	11,522	8,579	12,671	
160,448	151,921	145,190	136,345	
23,048	22,242	23,508	24,359	
Rupees.	Rupees.	Rupees.	Rupees.	
37,17,316	33,41,554	28,92,165	32,65,324	
3,38,395	3,07,708	2,63,614	2,47,609	
2,49,013	2,12,233	1,51,702	1,50,467	
2,889	11,597	8,763	1,330	
51,510	50,942	63,945	57,528	
15,943	15,821	23,626	23,457	
19,554	17,599	15,373	14,530	
-514	-484	205	297	
89,382	95,475	1,11,912	97,142	
0.55	0.63	0.77	0.71	
Miles.	Miles.	Miles.	Miles.	
148	148	148	148	
441	441	442	439	

The figures in columns 6 to 9 represent lengths to end of triennial period.

Shumali, and Nasir. The results of the triennium under report show a very steady three previous triennia.

SIND TRIENNIAL REPORT,

MINOR WORKS AND NAVIGATION—WORKS

Name of District—Fuleli Canals.

Particulars.		1908-1909.	1909-1910.	1910-1911.		
1	2	3	4	5		
		Acres.	Acres.	Acres.		
Area.	1	Rice ...	9,363	10,883	12,216	
	2	Jowári ...	133	184	238	
	3	Kharif ... {	Báji	9,365	8,740	7,097
	4		Cotton ...	706	761	1,207
	5		Other crops ...	436	374	458
	6		Total Kharif ...	20,003	20,942	21,216
	7	Rabi ... {	Wheat ...	1,000	1,094	810
	8		Barley ...	410	363	250
	9		Oil-seeds ...	1,485	1,095	789
	10		Other crops ...	916	1,441	1,510
	11	Total Rabi ...	3,811	3,993	3,359	
	12	Total Kharif and Rabi ...	23,814	24,935	24,575	
	13	Jaghir ...	617	1,971	2,252	
		Rupees.	Rupees.	Rupees.		
Revenue.	14	Estimated value of crops ...	5,50,040	5,32,531	4,12,963	
	15	Gross Revenue, Direct and Indirect (Actuals) ...	47,766	57,746	56,631	
	16	Net Revenue (Actuals) ...	-3,492	35,139	28,311	
Working Expenses	17	Expenditure on Extensions and Improvements ...	18,270	.....	.....
	18	Do. on Maintenance and Repairs ...	19,831	15,219	19,000	
	19	Do on Establishments ...	10,261	4,101	5,946	
	20	Revenue Collection Charges ...	2,775	3,261	3,326	
	21	Expenditure not included in above heads ...	121	26	48	
	22	Total Working Expenses ...	51,258	22,607	28,320	
	23	Incidence of Working Expenses per Acre ...	2.15	0.91	1.15	
		Miles.	Miles.	Miles.		
Miscellaneous.	24	Length of Main Canals ...	62	62	62	
	25	Length of Branch Canals ...	76	76	76	

General Remarks.—The works consist of a few small inundation canals

1908-1909 to 1910-1911.

FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

Source of Supply—Indus Left Bank.

Average for the triennium under report.	1905-1906. to 1907-1908.	1902-1903. to 1904-1905.	1899-1900. to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
10,821	11,318	9,477	15,146	
185	341	405	443	
8,400	9,706	10,654	9,713	
891	844	507	171	
423	279	443	634	
20,720	22,488	21,486	26,167	
968	570	337	423	
341	73	17	32	
1,123	812	534	635	
1,289	723	448	935	
3,721	2,178	1,336	2,055	
24,441	24,666	22,822	28,162	
1,613	692	831	960	
Rupees.	Rupees.	Rupees.	Rupees.	
4,98,511	4,12,013	4,45,127	3,20,584	
54,048	49,358	48,817	60,431	
19,986	21,714	25,815	14,851	
6,090	474	.....	2,306	
18,070	17,488	15,482	30,429	
6,769	6,693	4,366	9,194	
3,121	2,879	2,868	3,588	
65	109	286	63	
34,062	27,644	23,002	45,580	
1.39	1.12	1.01	1.62	
Miles.	Miles.	Miles.	Miles.	
62	62	61*	78	
76	76	70	70	

The figures in columns 6 to 9 represent lengths to end of triennial period.

* Hasanal Canal transferred to "Minor Works and Navigation—Works for which Capital and Revenue Accounts are kept."

taking off direct from the Indus. The cultivation is about the average.

MINOR WORKS AND NAVIGATION.

WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE
ACCOUNTS ARE KEPT.

(SIND.)

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR

Name of Division—

Particulars.		1908-1909.	1909-1910.	1910-1911.	
1	2	3	4	5	
		Acres.	Acres.	Acres.	
Arca.	1	Rice ...	12,089	12,148	10,657
	2	Jowári ...	7,426	3,463	5,146
	3	Kharif ... { Bájri ...	2,940	2,144	1,490
	4	Cotton ...	75	172	206
	5	Other crops ...	2,078	1,813	1,480
	6	Total, Kharif ...	24,608	19,740	18,979
	7	Wheat ...	12,083	8,236	11,405
	8	Rabi ... { Barley ...	1,456	851	258
	9	Oil-seeds ...	3,188	1,605	1,215
	10	Other crops ...	4,738	3,580	3,368
	11	Total, Rabi ...	21,465	14,272	16,246
	12	Total, Kharif and Rabi ...	46,073	34,012	35,225
13	Jághir ...	4,175	3,598	3,640	
14	Foreign ...	.....	.....	.....
		Rupees.	Rupees.	Rupees.	
Revenuc.	15	Estimated value of crops ...	7,92,220	6,88,250	6,15,387
	16	Gross Revenue, Direct and Indirect (Actuals) ...	96,000	81,706	74,859
	17	Net Revenue (Actuals) ...	-6,16,054	-10,32,394	-8,45,465
Working Expenses.	18	Expenditure on Extensions and Improvements ...	37,075	84,061	1,04,372
	19	Expenditure on Maintenance and Repairs ...	5,21,919	8,05,494	6,60,498
	20	Expenditure on Establishments ...	1,28,863	2,03,706	1,55,576
	21	Revenue Collection Charges ...	5,381	4,439	3,958
	22	Expenditure not included in above heads ...	18,816	16,400	-4,080
	23	Total, Working Expenses ...	7,12,054	11,14,100	9,20,324
		Miles.	Miles.	Miles.	
Miscellaneous.	24	Length of Bunds ...	472	475	487

General Remarks.—The large increase in the expenditure on maintenance and repairs is existing

1903-1909 TO 1910-1911.

WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

Indus Right Bank.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
11,631	10,853	3,900	1,483	<i>Note.</i> —Separate statements in respect of “Indus River Commission” and “Survey and Construction District” are printed on pages 72 & 78, and 74 & 75.
5,345	7,482	7,175	8,832	
2,191	2,190	1,059	965	
151	217	91	240	
1,791	942	633	1,230	
21,109	21,684	12,858	12,759	
10,575	13,210	10,094	10,797	
855	689	103	61	
2,003	2,237	842	1,007	
3,895	3,813	874	1,003	
17,328	19,899	11,913	12,868	
38,437	41,583	24,771	25,627	
3,804	4,297	4,018	194	
.....	
Rupees.	Rupees.	Rupees.	Rupees.	
6,96,962	6,38,952	3,84,137	5,83,180	
84,188	98,119	56,016	69,644	
—8,31,304	—5,13,551	—5,18,511	—3,08,233	
75,169	66,288	91,334	20,648	
6,62,637	4,03,153	2,57,641	2,35,730	
1,62,715	1,12,440	1,23,389	89,701	
4,593	5,591	3,169	3,935	
10,378	24,198	98,994	27,863	* The increase is due to the transfer of Bunds from “Works for which only Revenue Accounts are kept” in the Shikárpur and Karáchi Canals Districts.
9,15,492	6,11,670	5,74,527	3,77,877	
Miles.	Miles.	Miles.	Miles.	
487	469	475*	227	} The figures in columns 6 to 9 represent lengths to end of triennial period.

due to new loop bunds rendered necessary by the rapid encroachment of the river on the bund lines.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR
Name of District—Indus

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
		Rupees.	Rupees.	Rupees.
Revenue.	1 Gross Revenue, Direct and Indirect (Actuals)	95	194	(b) 748
	2 Net Revenue (Actuals)	-1,41,768	-1,44,937	-1,73,191
Working Expenses.	3 Expenditure on Extensions and Improvements	34,795	26,131	28,925
	4 Expenditure on Maintenance and Repairs	12,957	23,840	21,449
	5 Expenditure on Establishment	83,434	90,506	1,09,170
	6 Revenue Collection Charges ... ..	.....	.....	.....
	7 Expenditure not included in above heads	10,960 *-283	5,126 *-472	14,651 *-256
	8 Total, Working Expenses	1,41,863	1,45,131	1,73,939

General Remarks.—The work done consists of the Annual Survey of the Indus River, the river above the gorge.

1908-1909 TO 1910-1911.

WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

River Commission.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.	
6	7	8	9	10	
Rupees.	Rupees.	Rupees. (a)	Rupees. (a)	(a) Figures included in those shown in the statement of the Indus Right Bank Division. (b) Accounted for in the accounts of the Karachi Buildings District.	
346	2,429	.....	.....
-1,53,299	-1,79,184	.....	.....
29,951	26,538	.....	.....
19,415	9,629	.....	.....
94,370	63,553	.....	.....
.....		
9,909	81,893		*Suspense Account.
1,53,645	1,81,613		

of discharge observations, and an investigation of the Sukkur-Rohri site for a barrage across

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR
Name of District—

		Particulars.	1908-1909.	1909-1910.	1910-1911.	
1		2	3	4	5	
		<i>Works for which only Revenue Accounts are kept.</i>	Rupees.	Rupees.	Rupees.	
Revenue.	}	1	Gross Revenue, Direct and Indirect (Actuals).	.....	.....	.....
		2	Net Revenue (Actuals) ...	.....	.....	.....
Working Expenses.	}	3	Expenditure on Extensions and Improvements.	.....	.....	.....
		4	Expenditure on Maintenance and Repairs.	.....	.....	.....
		5	Expenditure on Establishment ...	.....	.....	.....
		6	Revenue Collection Charges ...	.....	.....	.....
		7	Expenditure not included in above heads.	.....	.....	.....
		8	Total, Working Expenses ...	.....	.....	.....
		<i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Revenue.	}	9	Gross Revenue, Direct and Indirect (Actuals).	.....	.....	.....
		10	Net Revenue (Actuals) ...	—63,124	—56,834	—19,844
Working Expenses.	}	11	Expenditure on Extensions and Improvements.	15,124	6,075	457
		12	Expenditure on Maintenance and Repairs.	.....	.....	.....
		13	Expenditure on Establishment ...	44,848	48,897	19,172
		14	Revenue Collection Charges ...	.....	.....	.....
		15	Expenditure not included in above heads.	3,152	1,862	215
		16	Total, Working Expenses ...	63,124	56,834	19,844

General Remarks.—The expenditure was incurred on carrying out surveys and preparing area

1908-1909 TO 1910-1911.

WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

Survey and Construction.

Average for the triennium under report.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Rupees.	Rupees.	Rupees.	Rupees.	
.....	(a) .....	.....	.....	(a) Separate Accounts compiled from 1906-07.
.....	-4,631	.....	.....
.....	55	.....	.....
.....	
.....	4,478	.....	.....
.....	
.....	98	.....	.....
.....	4,631	.....	.....
.....	
-46,601	-20,439	.....	.....
7,219	5,658	.....	.....
.....	
37,639	12,157	.....	.....
.....	
1,743	2,624	.....	.....
46,601	20,439	.....	.....

a project for the Right Bank Canal, and on taking observations of subsoil water in the commanded.

SIND TRIENNIAL REPORT,
MINOR WORKS AND NAVIGATION—WORKS FOR

Name of Division—

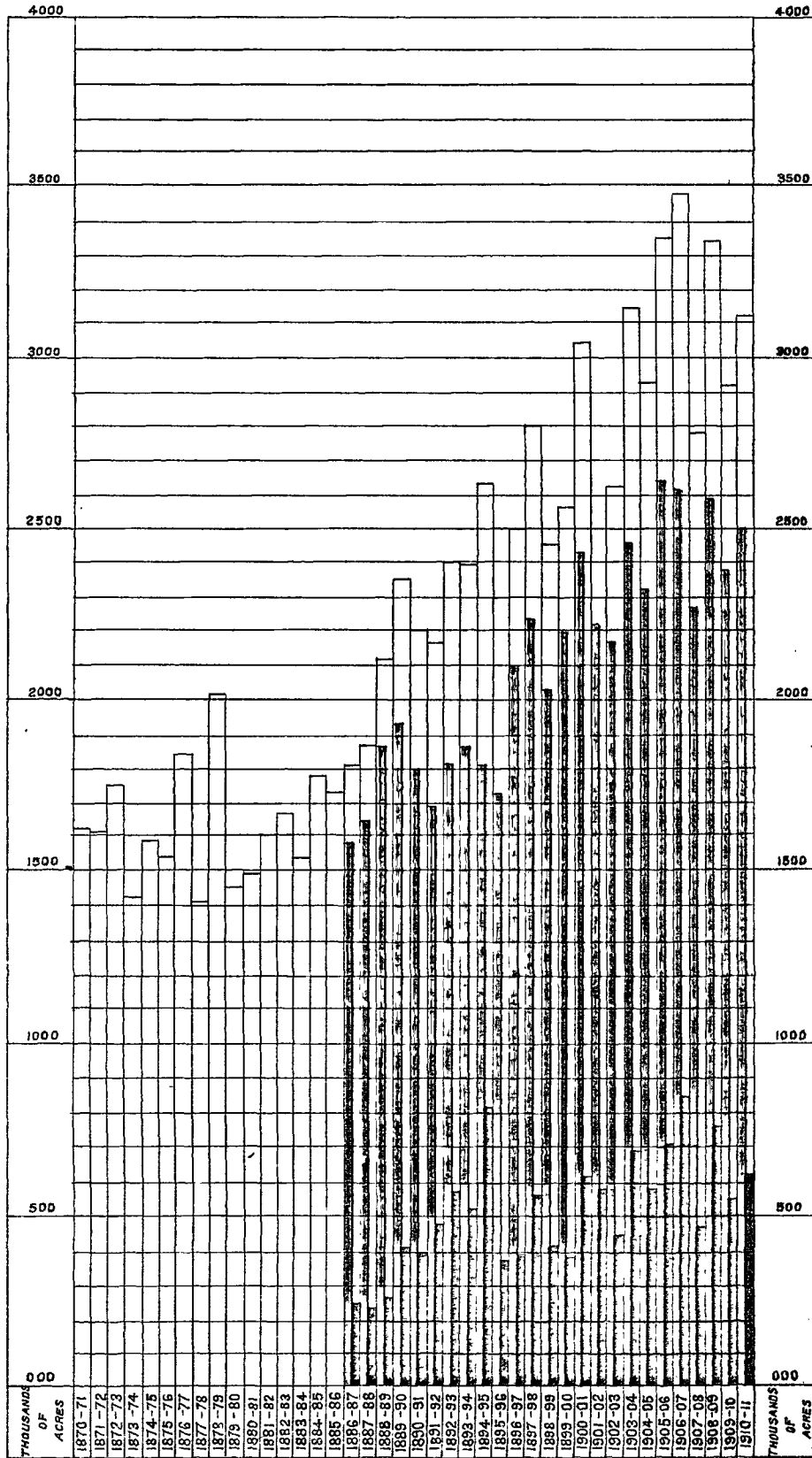
Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
		Acres.	Acres.	Acres.
Area.	1	Rice	.....	.....
	2	Jowári	.....	.....
	3	Kharif ... { Bájri	.....	.....
	4	Cotton	.....	.....
	5	Other crops	.....	.....
	6	Total, Kharif	.....	.....
	7	Rabi ... { Wheat	.....	.....
	8	Barley	.....	.....
	9	Oil-seeds	.....	.....
	10	Other crops	.....	.....
	11	Total, Rabi	.....	.....
	12	Total, Kharif and Rabi	.....	.....
13	Jághir	.....	.....
14	Foreign	.....	.....
		Rupees.	Rupees.	Rupees.
Revenue.	15	Estimated value of crops	.....	.....
	16	Gross Revenue, Direct and Indirect (Actuals)	1,180	592
	17	Net Revenue (Actuals)	-1,74,604	-2,29,743
Working Expenses.	18	Expenditure on Extensions and Improvements	24,791	19,669
	19	Expenditure on Maintenance and Repairs	81,312	1,25,740
	20	Expenditure on Establishments	67,226	80,042
	21	Revenue Collection Charges	.....	1
	22	Expenditure not included in above heads	2,455	4,883
	23	Total, Working Expenses	1,75,784	2,30,335
Miscellaneous.	24	Length of Bunds	Miles.	Miles.
		55	57	63

General Remarks.—The most important embankments in this Division are in the Hyderabad Canals Districts. The expenditure during the triennium was mainly incurred of the Hajipur Loop Bund and on maintaining new and existing river embankments.

DIAGRAM

SHOWING THE

TOTAL AREAS IRRIGATED BY IRRIGATION
WORKS IN SIND INCLUDING AREAS OF CULTIVATION
OF JAGHIR LANDS AND LANDS IN FOREIGN TERRITORY.



THE BLACK LINE COLUMNS INDICATE TOTAL AREA OF GOVERNMENT LAND IRRIGATED
THE FIRST SUBDIVISION OF EACH ANNUAL COLUMN COLOURED RED DENOTES THE "KHARIF" AREA AND
THE SECOND COLOURED BLUE THE "RABI" AREA.

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STATEMENT I.

Statement showing Total Areas irrigated by Irrigation Works in Sind, including areas of Cultivation in Jāghirs and on lands in Foreign Territory.

Years.	Area of Cultivation of Government, Jāghir and Foreign Lands.			Remarks.
	Kharif.	Rabi.	Total.	
1	2	3	4	5
	Acres.	Acres.	Acres.	
1870-71	.....	.....	1,627,836	
1871-72	.....	.....	1,612,299	
1872-73	.....	.....	1,754,504	
1873-74	.....	.....	1,418,159	
1874-75	.....	.....	1,596,898	
1875-76	.....	.....	1,543,517	
1876-77	.....	.....	1,842,510	
1877-78	.....	.....	1,418,863	
1878-79	.....	.....	2,016,089	
1879-80	.....	.....	1,454,028	
1880-81	.....	.....	1,492,669	
1881-82	.....	.....	1,601,986	
1882-83	.....	.....	1,673,293	
1883-84	.....	.....	1,540,831	
1884-85	.....	.....	1,783,173	
1885-86	.....	.....	1,739,919	
1886-87	1,576,614	238,036	1,814,650	
1887-88	1,637,065	234,049	1,871,114	
1888-89	1,854,429	264,206	2,118,635	
1889-90	1,936,630	413,189	2,349,819	
1890-91	1,800,280	403,193	2,203,473	
1891-92	1,690,821	474,810	2,165,631	
1892-93	1,822,845	578,210	2,399,055	
1893-94	1,869,408	516,869	2,386,277	
1894-95	1,814,891	820,835	2,635,726	
1895-96	1,725,694	371,103	2,096,777	
1896-97	2,101,171	396,185	2,497,356	
1897-98	2,232,903	573,180	2,806,083	
1898-99	2,028,482	427,569	2,456,051	
1899-1900	2,190,011	378,492	2,568,503	
1900-01	2,435,596	608,263	3,043,859	
1901-02	2,226,312	581,578	2,807,890	
1902-03	2,175,636	450,034	2,625,670	
1903-04	2,469,754	682,054	3,151,808	
1904-05	2,336,466	587,463	2,923,929	
1905-06	2,646,085	701,923	3,348,008	
1906-07	2,630,874	855,237	3,486,111	
1907-08	2,292,535	479,844	2,772,379	
1908-09	2,594,536	750,013	3,344,549	
1909-10	2,384,624	542,291	2,926,915	
1910-11	2,509,541	612,354	3,121,895	

STATEMENT II.

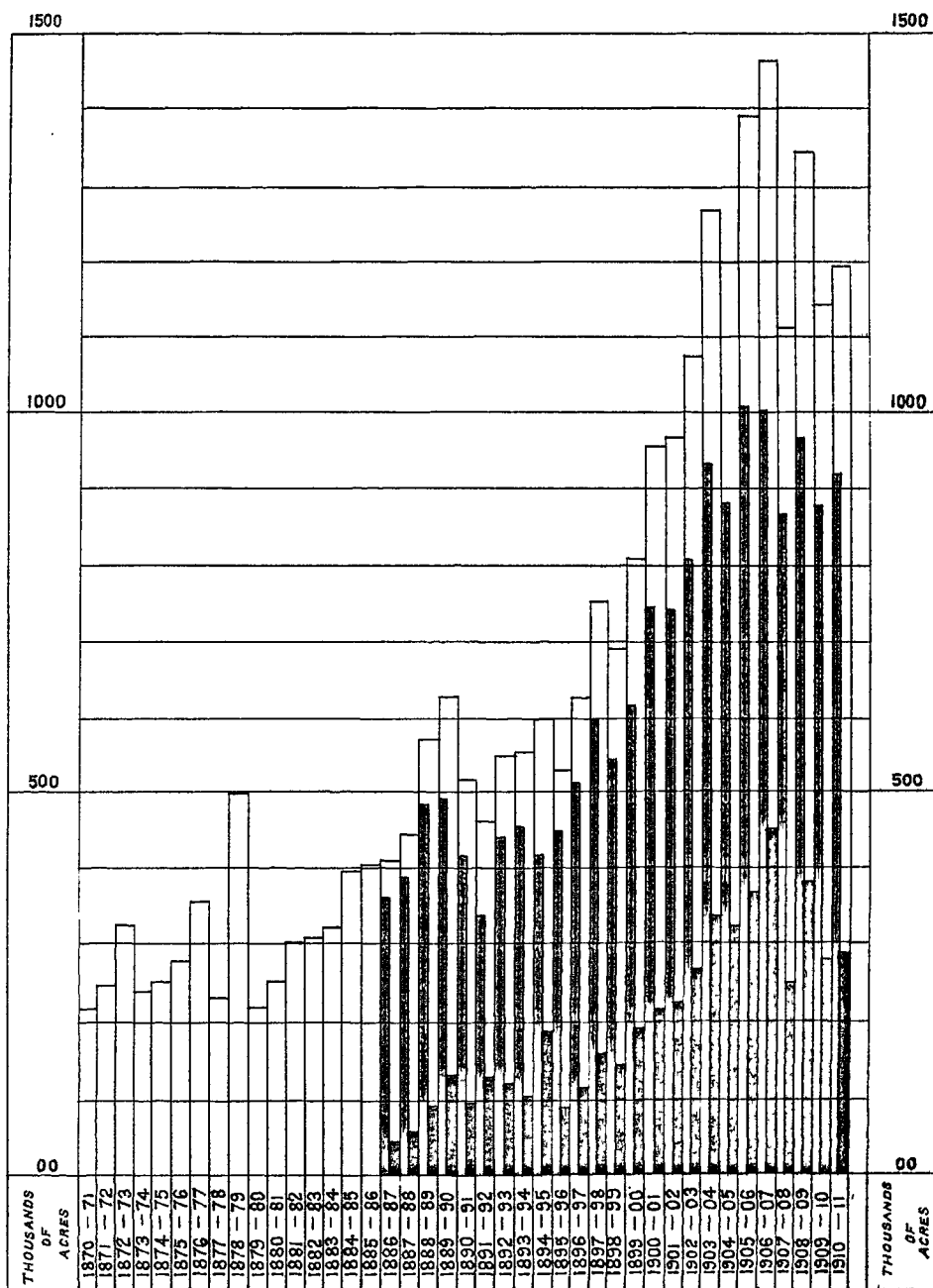
Statement showing Gross Revenue, Working Expenses and Net Revenue of Irrigation Works in Sind, including Jughir, Hakaba and Miscellaneous Revenue.

Years.		Gross Revenue.	Working Expenses.	Net Revenue.	Remarks.
1		2	3	4	5
		Rs.	Rs.	Rs.	
1870-71	...	.....	.....	.....
1871-72	...	.....	.....	.....
1872-73	...	.....	.....	.....
1873-74	...	.....	.....	.....
1874-75	...	.....	.....	.....
1875-76	...	.....	.....	.....
1876-77	...	.....	.....	.....
1877-78	...	.....	.....	.....
1878-79	...	.....	.....	.....
1879-80	...	.....	.....	.....
1880-81	...	30,68,098	13,00,897	17,67,201	
1881-82	...	32,21,732	14,75,960	17,45,772	
1882-83	...	32,33,420	15,16,323	17,17,097	
1883-84	...	32,51,188	15,49,721	17,01,467	
1884-85	...	33,49,721	16,01,659	22,48,062	
1885-86	...	36,32,014	15,77,000	20,55,014	
1886-87	...	37,98,115	16,97,653	21,00,462	
1887-88	...	39,04,399	18,65,840	20,38,559	
1888-89	...	44,58,953	17,66,968	26,91,985	
1889-90	...	47,75,069	20,48,415	27,26,654	
1890-91	...	46,99,782	20,87,846	26,11,916	
1891-92	...	46,77,875	20,22,573	26,55,302	
1892-93	...	50,59,412	20,49,377	30,10,035	
1893-94	...	50,94,799	22,53,256	28,41,543	
1894-95	...	55,94,340	27,14,811	28,79,529	
1895-96	...	43,57,494	26,46,026	17,11,468	
1896-97	...	54,39,449	25,52,431	28,87,018	
1897-98	...	60,27,803	22,94,728	37,33,075	
1898-99	...	53,67,061	22,16,226	31,50,835	
1899-1900	...	54,32,973	23,99,565	30,33,408	
1900-01	...	67,40,955	24,68,111	42,72,844	
1901-02	...	59,21,113	23,95,422	35,25,691	
1902-03	...	53,45,534	29,55,053	23,90,481	
1903-04	...	69,58,566	29,51,289	40,07,277	
1904-05	...	64,64,186	32,51,540	32,12,646	
1905-06	...	83,56,644	35,11,721	48,44,923	
1906-07	...	84,13,592	32,67,614	51,45,978	
1907-08	...	68,80,022	36,35,965	32,44,057	
1908-09	...	80,39,036	37,65,956	42,73,080	
1909-10	...	78,29,017	40,42,676	37,86,341	
1910-11	...	82,84,135	42,59,540	40,24,595	

DIAGRAM

SHOWING THE

TOTAL AREAS IRRIGATED BY IRRIGATION MAJOR WORKS
IN SIND INCLUDING AREAS OF CULTIVATION OF JAGHIR LANDS
AND LANDS IN FOREIGN TERRITORY FOR SUCH
YEARS FOR WHICH INFORMATION IS AVAILABLE.



THE BLACK LINE COLUMNS INDICATE TOTAL AREA OF LAND IRRIGATED
THE FIRST SUB-DIVISION OF EACH ANNUAL COLUMN COLOURED RED DENOTES THE "KHARIF" AREA AND
THE SECOND COLOURED BLUE THE "RABI" AREA

STATEMENT III.

Statement showing Total Areas irrigated by Irrigation Major Works in Sind, including Areas of Cultivation in Jaghirs and on Lands in Foreign Territory.

Years.	Area of Cultivation of Government, Jágir and Foreign Lands.			Remarks.
	Kharif.	Rabi.	Total.	
1	2	3	4	5
	Acres.	Acres.	Acres.	
1870-71	.....	.....	218,748	
1871-72	.....	.....	249,682	
1872-73	.....	.....	331,910	
1873-74	.....	.....	240,375	
1874-75	.....	.....	254,055	
1875-76	.....	.....	280,811	
1876-77	.....	.....	352,843	
1877-78	.....	.....	233,852	
1878-79	.....	.....	501,925	
1879-80	.....	.....	220,093	
1880-81	.....	.....	260,597	
1881-82	.....	.....	303,332	
1882-83	.....	.....	309,450	
1883-84	.....	.....	323,795	
1884-85	.....	.....	392,386	
1885-86	.....	.....	402,004	
1886-87	365,411	43,760	409,171	
1887-88	391,851	54,488	446,339	
1888-89	486,644	89,101	575,745	
1889-90	493,420	136,691	630,111	
1890-91	422,042	95,912	517,954	
1891-92	337,768	128,315	466,083	
1892-93	439,128	115,241	554,369	
1893-94	456,089	102,399	558,488	
1894-95	417,615	189,420	607,035	
1895-96	444,232	87,494	531,726	
1896-97	513,387	116,650	630,037	
1897-98	595,909	157,913	753,822	
1898-99	542,442	146,208	688,650	
1899-1900	614,836	193,305	808,141	
1900-01	746,378	215,056	961,434	
1901-02	742,183	226,647	968,830	
1902-03	808,069	263,932	1,072,001	
1903-04	933,524	329,381	1,262,905	
1904-05	879,576	322,313	1,201,889	
1905-06	1,010,093	383,839	1,393,932	
1906-07	1,005,827	462,965	1,468,792	
1907-08	863,953	247,275	1,111,228	
1908-09	973,914	378,060	1,351,974	
1909-10	861,683	283,268	1,144,951	
1910-11	912,020	287,106	1,199,126	

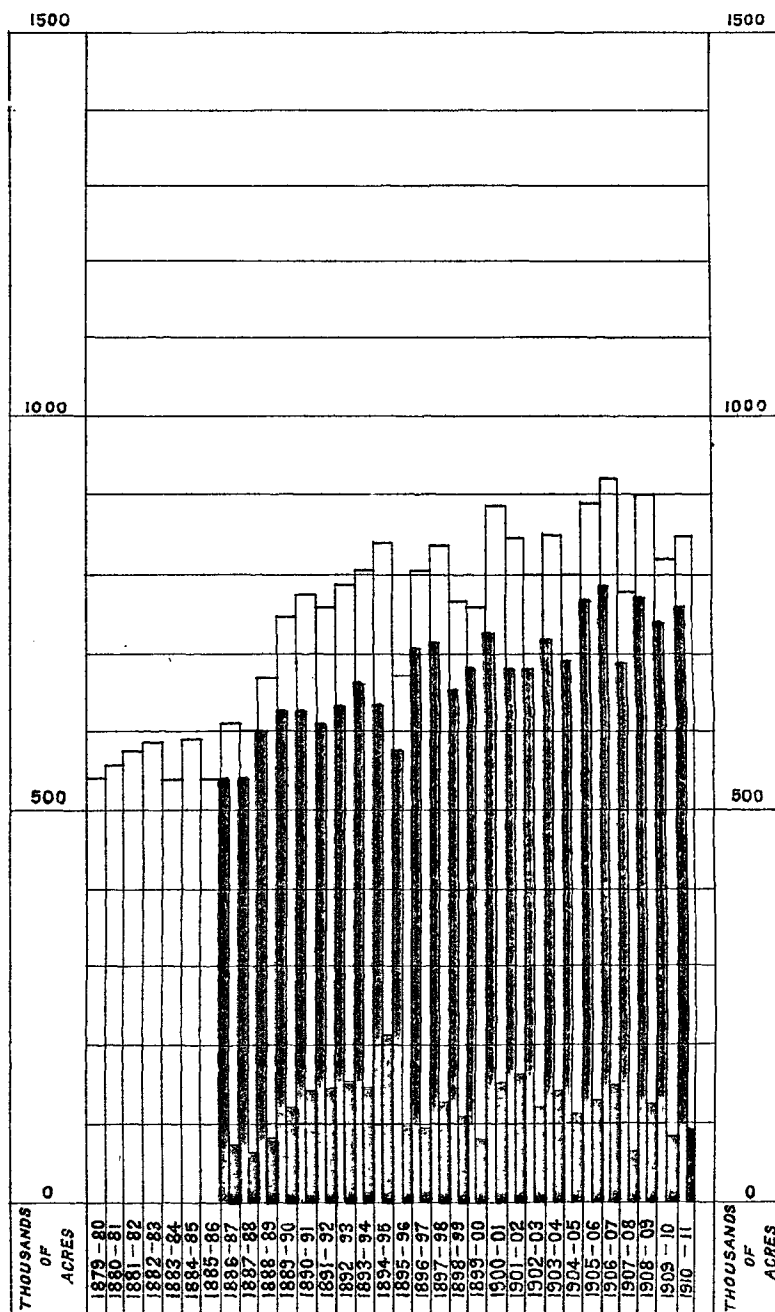
STATEMENT III-A.

Statement showing Capital Expenditure, Sum at charge, Gross Revenue, Working Expenses and Net Revenue in case of Major Irrigation Works, Sind.

Year.	Capital Expenditure, direct and indirect, to end of year.	Sum at charge to end of year.	Gross Revenue during the year.	Working Expenses during the year.	Net Revenue during the year.
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
1870-71	.....	.....	.....	.....	.....
1871-72	.....	.....	.....	.....	.....
1872-73	.....	.....	.....	.....	.....
1873-74	.....	.....	.....	.....	.....
1874-75	.....	.....	.....	.....	.....
1875-76	.....	.....	.....	.....	.....
1876-77	.....	.....	.....	.....	.....
1877-78	.....	.....	.....	.....	.....
1878-79	.....	.....	.....	.....	.....
1879-80	.....	.....	.....	.....	.....
1880-81	55,06,048	53,40,960	3,70,364	1,77,591	1,92,773
1881-82	58,90,442	57,71,300	4,05,795	1,56,081	2,49,714
1882-83	63,32,677	61,79,980	4,46,993	1,81,859	2,65,134
1883-84	67,74,709	65,90,140	4,91,926	1,83,594	3,08,332
1884-85	72,42,173	69,97,620	6,28,477	2,16,713	4,11,764
1885-86	78,76,600	74,88,960	6,73,096	2,18,952	4,54,144
1886-87	81,17,237	75,65,170	6,81,883	2,35,776	4,46,107
1887-88	83,11,078	76,15,370	7,51,677	2,43,023	5,08,654
1888-89	84,28,392	75,35,250	10,04,838	2,89,076	7,15,762
1889-90	85,07,304	71,98,630	10,33,706	3,06,699	7,27,007
1890-91	85,88,747	68,73,270	9,10,710	2,93,996	6,16,714
1891-92	86,80,253	63,61,780	7,37,837	3,44,564	3,93,273
1892-93	88,88,696	69,96,370	10,24,814	3,45,226	6,79,588
1893-94	94,10,720	72,22,490	9,20,027	3,04,778	6,15,249
1894-95	98,37,541	73,88,100	10,30,330	4,29,358	6,00,972
1895-96	96,64,093	69,84,710	9,47,790	3,36,989	6,10,801
1896-97	98,12,849	69,00,170	11,09,840	3,19,401	7,90,439
1897-98	98,79,779	65,53,510	13,24,138	3,81,535	9,42,603
1898-99	99,04,377	60,16,610	12,95,697	3,62,390	9,33,307
1899-1900	1,67,61,548	1,27,31,760	15,33,243	3,76,336	11,56,907
1900-01	1,79,29,731	1,33,64,905	17,94,217	4,21,325	13,72,892
1901-02	2,14,64,518	1,63,20,569	18,22,276	5,51,520	12,70,756
1902-03	2,27,38,960	1,71,17,614	19,28,794	7,85,577	11,43,217
1903-04	2,48,76,780	1,90,16,128	22,59,182	7,80,667	14,78,515
1904-05	2,51,82,392	*2,62,73,845	22,66,995	9,63,644	13,03,351
1905-06	2,53,49,902	2,66,09,185	32,71,024	11,20,143	21,50,881
1906-07	2,54,76,067	2,67,22,409	33,11,687	10,69,260	22,42,427
1907-08	2,57,46,447	2,68,43,256	28,10,157	10,88,030	17,22,127
1908-09	2,60,18,612	2,71,42,101	31,33,187	12,07,365	19,25,822
1909-10	2,62,25,963	2,72,01,425	30,69,990	10,44,832	20,25,158
1910-11	2,63,80,613	2,73,06,959	31,95,688	13,48,371	18,47,317

* From 1904-05 the figures represent only charges exclusive of net excess of revenue over interest as per Government of India's No. 1025-I, dated 3rd August 1905, embodied in the preamble of Government Resolution No. A-I. 2278, dated 8th September 1905.

DIAGRAM
SHOWING THE
TOTAL AREAS IRRIGATED BY IRRIGATION
MINOR WORKS IN SIND FOR WORKS FOR WHICH
CAPITAL AND REVENUE ACCOUNTS ARE KEPT INCLUD-
-ING AREAS OF CULTIVATION OF JAGHIR LAND
AND LANDS IN FOREIGN TERRITORY.



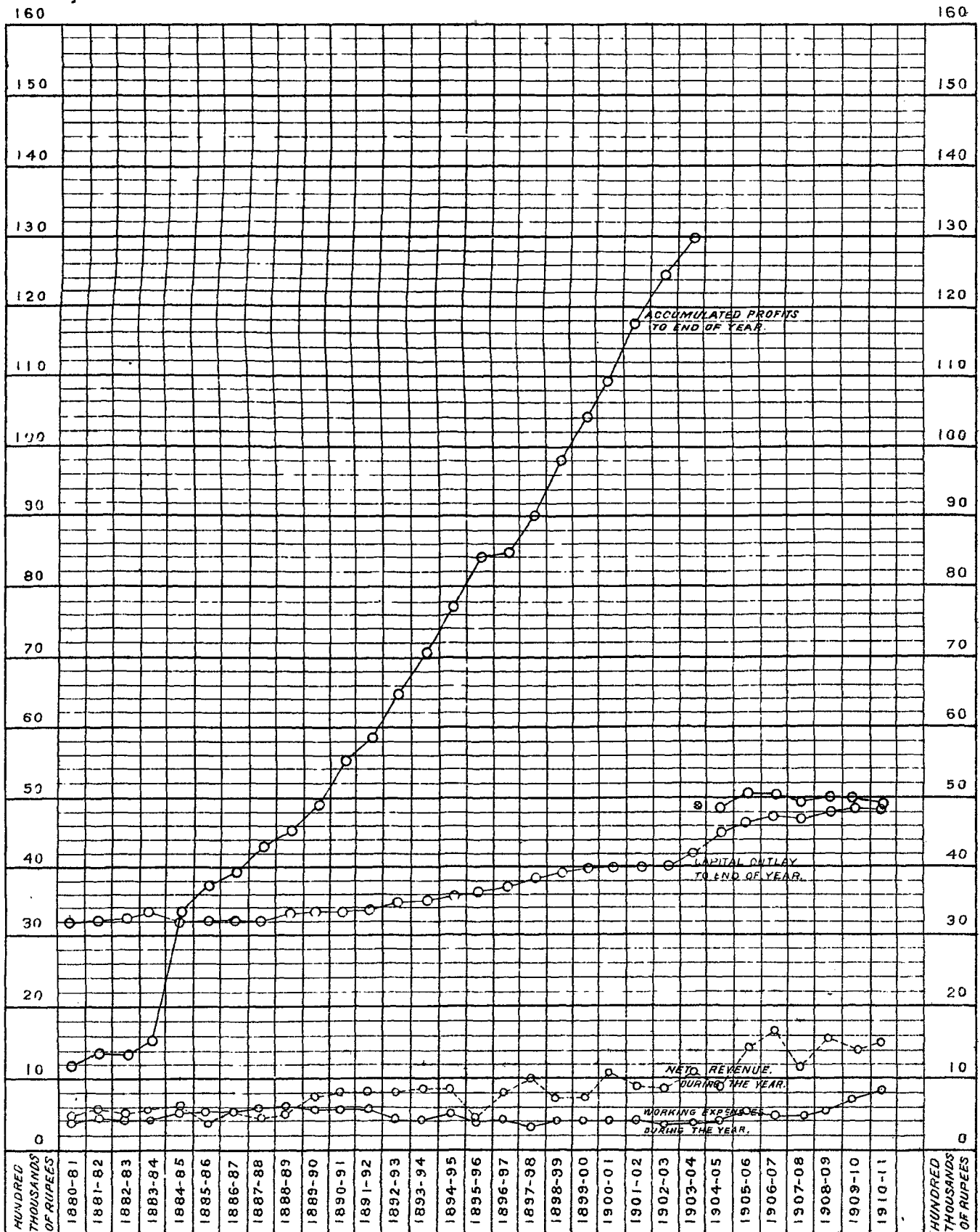
THE BLACK LINE COLUMNS INDICATE TOTAL AREA OF LAND IRRIGATED
 THE FIRST SUBDIVISION OF EACH ANNUAL COLUMN COLOURED RED DENOTES THE
 "KHARIF" AREA AND THE SECOND COLOURED BLUE THE "RABI" AREA

STATEMENT IV.

Statement showing Total Areas irrigated by Irrigation Minor Works in Sind for Works for which Capital and Revenue Accounts are kept, including areas of cultivation of Jāghir lands and lands in Foreign Territory.

Years.	Area of cultivation of Government Jāghir and Foreign Lands.			Remarks.
	Kharif.	Rabi.	Total.	
1	2	3	4	5
	Acres.	Acres.	Acres.	
1870-71	.....	.....	.....
1871-72	.....	.....	.....
1872-73	.....	.....	.....
1873-74	.....	.....	.....
1874-75	.....	.....	.....
1875-76	.....	.....	.....
1876-77	.....	.....	.....
1877-78	.....	.....	.....
1878-79	.....	.....	.....
1879-80	.....	.....	536,683	
1880-81	.....	.....	557,792	
1881-82	.....	.....	574,869	
1882-83	.....	.....	588,591	
1883-84	.....	.....	539,810	
1884-85	.....	.....	592,448	
1885-86	.....	.....	541,070	
1886-87	541,003	73,605	614,608	
1887-88	537,914	61,911	599,825	
1888-89	597,090	79,109	676,199	
1889-90	628,313	123,255	751,568	
1890-91	628,871	143,992	772,863	
1891-92	614,031	145,040	759,071	
1892-93	631,517	155,547	787,064	
1893-94	660,005	147,474	807,479	
1894-95	632,106	210,643	842,749	
1895-96	573,002	100,310	673,312	
1896-97	709,384	96,319	805,703	
1897-98	715,316	124,807	840,123	
1898-99	656,560	112,457	769,017	
1899-1900	680,951	83,366	764,317	
1900-01	730,654	152,302	882,956	
1901-02	679,837	166,861	846,698	
1902-03	677,697	116,833	794,530	
1903-04	717,397	137,781	855,178	
1904-05	689,463	108,971	798,434	
1905-06	771,941	118,360	890,301	
1906-07	787,940	142,748	930,688	
1907-08	699,439	77,206	776,645	
1908-09	771,024	129,577	900,601	
1909-10	737,078	89,449	826,527	
1910-11	757,600	94,825	852,425	

DIAGRAM
 showing the
CAPITAL OUTLAY, GROSS REVENUE, NET REVENUE,
WORKING EXPENSES, ACCUMULATED PROFITS,
IRRIGATION MINOR WORKS, SIND.



REFERENCES.

- THE RED LINES INDICATE CAPITAL OUTLAY TO END OF YEAR.
- THE YELLOW LINES INDICATE GROSS REVENUE DURING THE YEAR.
- THE BLACK DOTTED LINES SHOW THE NET REVENUE DO.
- THE BLACK LINES INDICATE THE WORKING EXPENSES DO.
- THE BLUE LINES INDICATE THE ACCUMULATED PROFITS OR SURPLUS OF NET REVENUE OVER ALL OUTLAY AND INTEREST CHARGES TO THE END OF YEAR.
- FROM 1904-05 THE FIGURES REPRESENT ONLY CHARGES EXCLUSIVE OF NET EXCESS, REVENUE OVER INTEREST AS PER MODE PRESCRIBED IN GOVT OF INDIA'S NO 10251, DATED 3RD AUGT 1905 EMBODIED IN THE PREAMBLE OF G.R. NO A1,-2278 DATED 8TH SEP.1905.

STATEMENT IV-A.

Statement showing Capital Expenditure, Sum at charge, Gross Revenue, Working Expenses, and Net Revenue on Irrigation Minor Works in Sind, for which Capital and Revenue Accounts are kept.

Years.	Capital Expenditure to end of year.	Sum at charge to end of year.	Gross Revenue during the year.	Working Expenses during the year.	Net Revenue during the year.
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
1870-71	.....	.....	.....	.....	.....
1871-72	.....	.....	.....	.....	.....
1872-73	.....	.....	.....	.....	.....
1873-74	.....	.....	.....	.....	.....
1874-75	.....	.....	.....	.....	.....
1875-76	.....	.....	.....	.....	.....
1876-77	.....	.....	.....	.....	.....
1877-78	.....	.....	.....	.....	.....
1878-79	.....	.....	.....	.....	.....
1879-80	.....	.....	.....	.....	.....
1880-81	31,84,906	- 11,50,360	7,33,715	3,32,069	4,01,646
1881-82	32,02,592	- 13,54,540	9,17,150	4,07,195	5,09,955
1882-83	32,47,444	- 13,21,200	8,26,128	4,05,591	4,20,537
1883-84	33,38,972	- 15,34,270	8,73,549	3,91,602	4,81,947
1884-85	32,08,616	- 33,31,790	10,39,164	4,91,846	5,47,318
1885-86	32,11,184	- 37,64,220	8,00,469	4,81,187	3,19,282
1886-87	32,11,184	- 39,72,470	8,98,310	4,40,503	4,57,807
1887-88	32,11,184	- 43,18,640	9,25,791	5,07,932	4,17,859
1888-89	32,73,637	- 45,61,540	11,24,685	6,12,211	5,12,474
1889-90	33,29,075	- 49,09,800	12,60,717	5,30,247	7,30,470
1890-91	33,50,533	- 55,01,790	13,43,223	5,54,878	7,88,345
1891-92	33,94,787	- 58,60,850	13,56,425	5,49,107	8,07,318
1892-93	34,82,390	- 64,66,450	11,77,441	3,91,691	7,85,750
1893-94	35,29,180	- 70,73,750	12,35,741	3,96,317	8,39,424
1894-95	35,76,515	- 77,31,630	12,80,760	4,56,868	8,23,892
1895-96	36,47,372	- 83,48,640	7,60,368	3,94,058	3,66,310
1896-97	37,25,271	- 84,98,730	11,93,618	4,17,813	7,75,805
1897-98	38,67,927	- 89,90,670	13,01,247	2,86,946	10,14,301
1898-99	39,23,872	- 98,03,550	11,08,074	3,73,997	7,34,077
1899-1900	39,75,795	- 1,03,36,330	11,34,298	4,09,498	7,24,800
1900-01	39,83,602	- 1,09,01,882	14,20,607	3,77,584	10,43,023
1901-02	40,07,496	- 1,17,68,471	12,88,856	4,03,668	8,85,188
1902-03	40,53,857	- 1,24,54,245	12,01,244	3,47,560	8,53,684
1903-04	42,31,278	- 1,30,16,890	14,60,241	3,73,686	10,86,555
1904-05	45,54,478	*48,71,132	12,82,910	3,95,794	8,87,116
1905-06	47,76,735	51,11,713	22,27,031	6,31,987	15,95,044
1906-07	48,37,450	51,19,126	23,34,695	5,89,188	17,45,507
1907-08	48,03,148	50,42,019	18,06,522	5,51,907	12,54,615
1908-09	48,16,309	50,29,057	21,74,069	5,69,833	16,04,236
1909-10	48,22,485	49,43,193	21,53,178	6,85,743	14,67,435
1910-11	48,22,533	48,92,801	23,92,234	8,04,300	15,87,934

* From 1904-05, the figures represent only charges exclusive of net excess of revenue over interest as per Government of India's No. 1025-I., dated 3rd August 1905, embodied in the preamble of Government Resolution No. A. I.-2273, dated 8th September 1905.

*Triennial Report of Irrigation Works
in Sind for 1908-09 to 1910-11—
Review of*

NO. W. I.—4871 OF 1912.

Public Works Department.

Bombay Castle,
25th May 1912.

Read—

Triennial Revenue Report of Irrigation Works in Sind for 1908-09 to 1910-11.

RESOLUTION.—Copies of the Report should be forwarded to the Government of India and the Secretary of State.

2. Although there was no inundation of special excellence during the triennium under report, the results obtained are good, and but for the exceptional expenditure on the River embankments and on survey for the preparation of the great Sukkur Barrage Project, the net revenue would have approximately equalled that of the preceding triennium.

3. The changes of the Indus commented on in the last paragraph of the General Remarks require careful study. It is satisfactory that the river has been successfully kept within the flood embankments and there have been no serious breaches or floods during the triennium in spite of the severe erosion.

4. The recently constructed Mahiwah has been in operation during the triennium and shows a very satisfactory average net revenue of Rs. 28,682 after paying all interest charges. It is proving a sound Productive work.

5. The changes necessarily experienced with inundation canals, have resulted, during the triennium, in improved and good supplies of water to the Desert, Unharwah and Mahiwah in the north of Sind; immediately below these, the Begari and Sukkur and the Nasrat on the Left Bank seem to have passed through a prosperous period and to be entering one of less success, and the Eastern Nara has had an indifferent term. Immediately below the Nasrat, the Dad Canal has had a prosperous term and the canals in lower Sind, generally, have had a good triennium.

The deterioration has been mainly in Central Sind.

6. The plans and estimates for the great project for a Barrage at Sukkur to supply the existing Sukkur and Eastern Nara Canal systems and a large new canal called the Rohri Canal to take the place of the canals on the Left Bank between Rohri and Kotri were completed during the triennium and sent up to the Government of India on 5th December 1910. If the proposed work had been in existence, the deficiency in the Sukkur, Eastern Nara, Jamrao, and Nasrat Canals would not have occurred during the inundation. They would also have received adequate rabi supplies instead of the very scanty amounts now obtained. The inundation canals are unable to meet the demand for irrigation in Sind and the Barrage and new canals are much required.

7. The consolidated statements for all classes of works show that over $3\frac{1}{2}$ million acres were irrigated on the average, a figure only 40,000 less than the preceding triennium which was the best on record. Although this is a very small portion of the irrigable area of Sind, which is over 12 million acres, it is clear that the available canal supplies are being well utilised and distribution of the water steadily improved. Government thank their officers in Sind for the efficiency maintained in Irrigation and in the control of the river Indus.

A. F. THORPE,
Under Secretary to Government.

[P. T. O.]

To

The Revenue Department, Secretariat.
The Political Department, Secretariat.
The Commissioner in Sind.
The Chief Engineer in Sind.
The Superintending Engineer, C. D.
The Superintending Engineer, Indus Right Bank Division.
The Superintending Engineer, N. D.
The Superintending Engineer, S. D.
The Superintending Engineer, Indus Left Bank Division.
The Settlement Commissioner and Director of Land Records.
The Director of Agriculture.
All Executive Engineers in Sind.
The Accountant General, Bombay.
The Government of India.
The Secretary of State for India. } (By letter.)
The Editors' Table.

Class A.

Exd. C. S. P.

No. _____ of 1912.

Copy forwarded for information and guidance to

SUPPLEMENT.

Supplement to the Triennial Revenue Report of Sind for 1908-09 to 1910-11.

A Brief Account of the Hydrographical and Hydrological Survey of Sind.

Sukkur Barrage.—The borings in the river bed at Sukkur were continued during the triennium. A preliminary design for the Sukkur Barrage was submitted to Government in 1909, and this was revised in 1910 by the Superintending Engineer, Indus Left Bank Division, on the lines proposed by the Chief Engineer for Irrigation, Bombay. An engineering conference on the scheme was held at Karachi in February 1911, and was attended by the Inspector-General of Irrigation, Chief Engineer for Irrigation, Chief Engineer in Sind, Chief Engineer on Special Duty, and the Superintending Engineers, Indus Right Bank and Indus Left Bank. It was unanimously agreed that a barrage could be constructed at the site without causing any serious afflux or increase to the height of the flood levels. An alternative design was prepared thereafter by the Chief Engineer on Special Duty on the lines then settled, or modified subsequently, and was submitted to Government in 1911.

2. **Canal Projects.**—The contour surveys for the Rohri Canal, Indus Left Bank Canal and Eastern Nara Canal were completed in the last triennium, and reports on the schemes were submitted to Government in 1909.

3. **Ghotki Canal Project.**—Special observations of the floods passing from Ghotki and Sarhad down the Eastern Nara Valley were continued. It was first proposed to shut off by an embankment west of the North-Western Railway all floods between Rohri and Sarhad; to divert the floods north of Sarhad into the Nara by a diversion embankment at the boundary of the Khairpur State; and to irrigate by a canal taking off from Sarhad the area protected between the two bunds; a preliminary contour survey of this area was made, and a project, prepared on the lines detailed above, was submitted to Government in 1910. The project was not recommended and is in abeyance.

4. **Topographical Surveys.**—These were carried out as usual by the Indus River Commission: they consist of surveys of river banks, dhands, side channels and river embankments, etc. The lengths surveyed in each year are given in tabulated form below:—

Year.	LENGTH IN MILES SURVEYED.					Remarks.
	At Gudu Dhand.	Between Kashmir and Sukkur.	Between Sukkur and Kotri.	Below Kotri.	Total.	
1908-09	50	130	220	50	450	
1909-10	61.5	115	246	82	504.5	
1910-11	88	448	421	324	1,281	

The curvature of the river and its erosive action are being studied. Very rapid and serious erosion occurred at mile 31 of the Sukkur-Begari Bund during 1909, near the mouth of Unhárwah during 1909 and 1910, and at Kasimpur Bund near Rohri during 1909. Retired loops were constructed at each place in time to prevent damage being done to property on the erosion of the front bund.

5. **Discharges.**—The measurements of discharges of the Indus were continued; those at Sukkur and Kotri are made throughout the year, while those at Dera Ghazi Khan are carried out during the cold weather only. The level of the river is being observed at ten stations above, and at two stations below, the bifurcation at the Delta.

6. *River Stages.*—The Indus has gradually recovered from the low stage which was conspicuous during the previous triennium. In 1908, the minimum Bukkur gauge reading was $-2\cdot4$ feet, the lowest on record, but both in 1909 and 1910, the minimum was $+0\cdot5$ feet. The Kotri gauge showed a decided rise in its maximum reading; that gauge read $22\cdot9$ feet in 1908, which is the highest reading on record. The river below Sukkur has been shortening its course since the cut off near the mouth of Ghar Canal in 1906, and the discharges for the same reading on Bukkur gauge show a steady rise.

7. *Statistical Work.*—All the statistical work mentioned in the previous triennial report is being continued, and the information obtained from 1905 to 1910 will be published in four volumes entitled "Indus River Commission Records, 1906—1910". These will consist of—

Volume I.—Hydrographic and discharge observations.

Volume II.—Observations for variation in velocity for different depths.

Volume III.—Observations for silt experiments.

Volume IV.—Miscellaneous observations containing gauge readings with charts, erosion charts, and maps showing changes in the river course.

ANNUAL IRRIGATION REVENUE REPORT,

SIND,

1913-1914.

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No. 7315 of 1914.

PUBLIC WORKS DEPARTMENT.
SUPERINTENDING ENGINEER'S OFFICE,
INDUS RIGHT BANK DIVISION.
Camp Gaheja, 15th December 1914.

From

F. ST. J. GEBBIE, ESQUIRE,
Superintending Engineer,
Indus Right Bank Division ;

To

THE SECRETARY TO GOVERNMENT,
Public Works Department (Irrigation),
Bombay.

Subject :—Annual Irrigation Revenue Report for 1913-1914.

Sir,

I have the honour to forward herewith the Revenue Report for Irrigation Works in this Division for the year 1913-14.

2. Crop Return VIII-A will follow.

I have the honour to be,

Sir,

Your most obedient servant,

F. ST. J. GEBBIE,
Superintending Engineer,
Indus Right Bank Division.

Accompaniments :—

Annual Irrigation Revenue Report.

Tables I to IX.

Through

THE SUPERINTENDING ENGINEER, INDUS LEFT BANK DIVISION.

THE CHIEF ENGINEER IN SIND.

THE COMMISSIONER IN SIND.

ANNUAL IRRIGATION REVENUE REPORT, INDUS RIGHT BANK DIVISION, 1913-1914.

The inundation of 1913 as described in the Irrigation Administration Report for 1913-14 and under para 21 of this report was, if anything, a little worse than that of 1912.

The diagram sent in advance of the report compares the inundation of 1913 with those of the previous two years and with the averages of the previous ten years.

The following table shows the principal features of the year as compared with the previous year and with the averages of the previous three and the previous ten years :—

		Average for 3 years in- cluding 1912.	Average of 10 years in- cluding 1912.	1912.	1913.
		Days.	Days.	Days.	Days.
Gauges—					
Bukkur, 10 feet and over	...	78	90	60	60
Do. 13 do.	...	21	43	31	16
Kotri, 14 do.	...	123	115	100	114
Do. 17 do.	...	86	66	59	66

		Average for 3 years in- cluding 1912.	1912.	1913.
		Acres.	Acres.	Acres.
Irrigation—				
Khārif	... ..	1,223,729	1,254,984	1,290,971
Rābi	... ..	302,050	285,097	367,397
Total		1,525,779	1,540,081	1,658,368
		Rs.	Rs.	Rs.
Gross Irrigation Revenue realized		41,91,237	41,55,982	43,97,242
Working expenses		25,24,710	25,73,725	28,76,396
Net Revenue neglecting simple interest		16,66,527	15,82,257	15,20,846

Area of cultivation, Government,
Jagir and Foreign.

2. The gross assessed areas for the year are given, according to the classification of works, in the following statement A :—

STATEMENT A.

Year and class of crops.	MAJOR WORKS.	MINOR WORKS AND NAVIGATION.				Grand Total.
	Productive Works,	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
Average of 3 years in- cluding 1912-1913.	{ Kharif... Acres. 336,057	Acres. 304,389	Acres. 565,471	Acres. 17,812	Acres. 887,672	Acres. 1,223,729
	{ Rabi ... 122,881	35,427	134,110	9,633	179,170	302,051
Total	458,938	339,816	699,581	27,445	1,066,842	1,525,780
1912-1913	{ Kharif... 333,456	312,533	589,906	19,089	921,528	1,254,984
	{ Rabi ... 118,777	33,128	123,771	9,421	166,320	285,097
Total	452,233	345,661	713,677	28,510	1,087,848	1,540,081

STATEMENT A.—continued.

Year and class of crops.	MAJOR WORKS.	MINOR WORKS AND NAVIGATION.				Grand Total.	
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.		
1	2	3	4	5	6	7	
1913-1914	... { Kharif...	Acres. 403,236	Acres. 302,479	Acres. 569,807	Acres. 15,449	Acres. 887,795	Acres. 1,290,971
	... { Rabi ...	160,386	45,933	160,364	10,714	207,011	367,397
	Total ...	563,622	348,412	720,171	26,163	1,094,746	1,658,368
Increase or decrease as compared with average.	... { Kharif...	67,179	-1,910	4,336	-2,363	63	67,242
	... { Rabi ...	37,505	10,506	16,254	1,081	27,841	65,846
	Total ...	104,684	8,596	20,590	-1,282	27,904	132,588
Increase or decrease as compared with 1912-1913.	... { Kharif...	69,780	-10,054	-20,099	-3,640	-33,793	85,987
	... { Rabi ...	41,609	12,805	26,593	1,293	40,691	82,300
	Total ...	111,389	2,751	6,494	-2,347	6,898	118,287

The statement shows that the area under both Kharif and Rabi are in excess of the previous years' areas and the areas of the average of the previous triennium by total cultivation of 118,287 and 132,588 acres, respectively.

3. The area of "Dubari" or twice-cropped land, which is not included in statement A, was 278,997 acres.

4. The total net consolidated assessment and "Hakabo" on Foreign and Jagir lands, after deducting remissions, is shown in the following statement B.

Assessment, Government,
Foreign and Jagir.

STATEMENT B.

Year and class of crops.	MAJOR WORKS.	MINOR WORKS AND NAVIGATION.				Grand Total.	
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.		
1	2	3	4	5	6	7	
Average of 3 years including 1912-1913.	... { Kharif...	Rs. 7,62,131	Rs. 11,24,135	Rs. 15,91,269	Rs. 40,557	Rs. 27,55,961	Rs. 35,18,092
	... { Rabi ...	3,25,879	1,93,957	4,42,123	26,399	6,63,479	9,88,358
	Total ...	10,88,010	13,18,092	20,33,392	66,956	34,19,440	45,06,450
1912-1913	... { Kharif...	6,83,960	11,15,954	16,34,889	44,063	27,94,306	34,78,266
	... { Rabi ...	2,97,402	1,91,631	3,97,587	26,185	6,15,103	9,12,505
	Total ..	9,81,362	13,06,985	20,32,476	70,248	34,09,409	43,90,771
1913-1914	... { Kharif...	8,97,436	11,67,685	15,15,173	32,727	27,15,585	36,13,021
	... { Rabi ...	3,54,930	2,38,012	4,57,400	31,730	7,27,142	10,82,072
	Total ...	12,52,366	14,05,697	19,72,573	64,457	34,42,727	46,95,093
Increase or decrease as compared with average.	... { Kharif...	1,35,305	43,550	-76,096	-7,830	-40,376	94,929
	... { Rabi ...	29,051	44,055	15,277	5,331	64,663	93,714
	Total ...	1,64,356	87,605	-60,819	-2,499	24,287	1,88,643
Increase or decrease as compared with 1912-1913.	... { Kharif...	2,13,476	52,331	-1,19,716	-11,336	-78,721	1,34,755
	... { Rabi ...	57,523	46,331	60,113	5,545	1,12,039	1,69,567
	Total ...	2,71,004	98,712	-59,603	-5,791	33,318	3,04,322

The total net assessed revenue as compared with the previous year and the average of the previous triennium was more by Rs. 3,04,322 and 188,643, respectively.

4. (a) The area cultivated on "spill" water from the river was 53,295 acres as compared with 48,528 acres in the previous year.

5. The average net consolidated assessment per acre on Government land, as compared with the averages of the previous year, and that of previous three years, is as follows :—

	Average of previous 3 years.	1913-14.	1912-13.
	Rs.	Rs.	Rs.
Major Works—Productive	2.52	2.45	2.34
Works for which Capital and Revenue Accounts are kept .	4.11	4.23	3.97
Works for which only Revenue Accounts are kept ...	3.07	2.88	3.01
Agricultural Works	2.74	2.83	2.77
Average for all Works	3.11	3.10	3.02

6. The following table shows the actual realizations of Irrigation Revenue under all heads, and the balances outstanding at the end of the year :—

STATEMENT C.

Year.	Collections.				Balance outstanding.
	Government land and Hakabo.	Miscellaneous.	Four per cent. Irrigation share of proceeds from sale of occupancy rights.	Total receipts.	
1	2	3	4	5	6
Average of past three years	Rs. 40,53,044	Rs. 75,142	Rs. 63,051	Rs. 41,91,237	Rs. 2,92,236
1912-1913	40,19,503	72,311	64,168	41,56,982	1,52,159
1913-1914	42,59,611	72,942	64,689	43,97,242	1,28,366
Increase or decrease as compared with the average	2,06,567	-2,200	1,638	2,06,005	-1,63,870
Increase or decrease as compared with 1912-1913	2,40,108	631	521	2,41,260	-23,793

The balance outstanding at the end of the year, including the land share, shows a decrease of Rs. 23,793 when compared with the previous year, and a decrease of Rs. 1,63,870 when compared with the average of the previous three years.

7. The remissions granted during the year amounted to Rs. 4,14,283 of which Rs. 3,20,207 were on Kharif and Rs. 94,076 on Rabi. Compared with the previous year and the average of the previous triennium the total remissions are more by Rs. 56,910 and 77,297, respectively.

The following statement shows details of causes, and the amount attributable to each, as compared with the figures of the previous year :—

	1918-14.	1912-13.	Difference.
	Rs.	Rs.	Rs.
Deficiency of water	1,12,511	2,25,033	—1,12,522
Breaches in canals	1,372	.....	1,372
Blight or Mahalo	594	27	567
Wireworms and insects	28,441	11,610	16,831
Frost	5,699	10	5,689
Locusts	705	3,778	—3,073
Rats	405	7,924	—7,519
Kalar soil	9,519	8,458	1,061
Other causes	51,403	58,468	—7,065
Inundation	1,96,160	66,745	1,29,415
Erosion	255	171	84
Adverse winds	27,764	787	26,977
Total	4,34,828	3,83,011	51,817

7(a). The remissions granted under this head was Rs. 65 on kharif for Western Nára.

7(b). Remissions on lands in Foreign territory (Khelât) amounted to Rs. 20,480. Of this Rs. 6,155 were for Desert Canal and Rs. 14,325 for Begari Canal.

8. The difference between the "Hakabo" assessed on foreign and jâghir cultivation, and the full rate of assessment for these areas, amounted to Rs. 3,36,516. This amount represents the loss of canal revenue during the year, due to the low rate at which water is allowed to jâghirdárs and to zemindárs in Khelat.

9. The total charges of the year, on account of maintenance and repairs, amounted to Rs. 21,22,503 and is divided as under :—

Works	Rs.
Establishment and Tools and Plant	15,66,845
Percentage charges for revenue collection	2,88,804
	2,66,854
Total	21,22,503

The cost of Establishment charged to Works which is included in the expenditure on Works was Rs. 2,76,286. The net expenditure on Works (clearance and repairs) was Rs. 12,90,559, and compared with the previous year, it shows a decrease of Rs. 38,179.

The charges on account of Establishment and Tools and Plant during the year amounted to Rs. 2,88,804 and show a decrease of Rs. 81,175 as compared with those of the previous year.

10. Of the total charges shown in the preceding paragraph, Rs. 15,17,787 were spent on canals and Rs. 56,04,716 on river embankments.

11. The outlay of the year on new works was Rs. 7,68,638 as under :—

Major Works	{ Capital ...	25,317
	{ Revenue ...	88,654
Works for which Capital and Revenue Accounts are kept	{ Capital ...	4,973
	{ Revenue ...	3,691
Works for which only Revenue Accounts are kept		1,42,057
Agricultural Works		5,03,946
Total		7,68,638

Under Major head "Capital" representing Works, Rs. 10,000 and Rs. 12,929 were spent on the Unharwah and Begari, respectively. Under Minor Works "Capital" Rs. 4,043 represent expenditure on the Ghar Canal.

12. The regular establishment charges amounted to Rs. 4,43,649 showing a decrease of Rs. 5,180 over those of the previous year :—

	Rs.	Percentage on outlay.
Executive	3,80,181	17.6
Direction—	Rs.	
Superintending Engineer.	22,755	
Secretariat and Accounts.	40,713	
	<u>63,468</u>	2.9
Total ...	<u>4,43,649</u>	<u>20.5</u>

Financial Results.

13. The general financial results of all the irrigation works in this Division are shown in the following statement D :—

STATEMENT D.

Class of Works.	Gross Revenue.	Working expenses.	Net Revenue.	Simple interest.	Net profit, 1913-1914.	Net profit, 1912-1913.	Increase.	Decrease.
1.	2.	3.	4.	5.	6.	7.	8.	9.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	11,95,256	5,87,629	6,07,627	2,36,672	3,70,955	90,330	3,80,616	...
Minor Works for which Capital and Revenue Accounts are kept.	12,85,438	3,13,527	9,71,909	...	9,71,909	8,98,701	73,208	...
Total ...	24,80,692	9,01,156	15,79,536	2,36,672	13,42,864	9,89,040	3,53,824	...
Minor Works for which only Revenue Accounts are kept.	18,49,518	8,66,578	9,82,940	...	9,82,940	12,24,542	...	-2,41,602
Agricultural Works	67,032	11,08,662	-10,41,630	...	-10,41,630	-8,74,210	...	-1,67,420
Total ...	19,16,550	19,75,240	-58,690	...	-58,690	3,50,332	...	-4,09,022
1913-1914	43,97,242	28,76,396	15,20,846	2,36,672	12,81,174	13,39,372	-55,198	
1912-1913	41,55,982	25,73,725	15,82,257	2,42,835	13,39,372	.....	.....
Increase or decrease	2,41,260	3,02,671	-61,411	-6,213	-55,198	.....	-55,198	

13(a). The following statement E gives the information required as per Government Resolution No. W. I.—1815 of the 22nd August 1910 :—

STATEMENT E.

Total area irrigated by all classes of works.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated (column 2 ÷ column 1).	Expenditure on Agricultural works (excluding the cost of surveys for special projects).	Rate of expenditure on Agricultural works per acre of area irrigated (column 4 ÷ column 1).	Total working expenses per acre of area irrigated including expenditure on Agricultural works (column 3 + column 5).
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
1,658,368	17,67,734	1.07	10,43,525	0.63	1.70

14. There were 1,388 miles of main and 1,939 miles of branch canals, total 3,327 miles in operation during the year against 3,326 miles in the previous year. The net increase of 1 mile in canals is due to decimal figures.

The net increase in bunds as compared with last year's mileage of 503 is 5 miles and is the result of the following:—

	Miles.
New loops constructed in 1913-14 in Shikárpur Canals District ...	+2.45
Abandonment of the 1907 loop from mile 7/2 to 12/4 in the Shikárpur Canals District ...	—5.25
Nára Bunds constructed in 1913-14 in Western Nára District ...	+11.64
Difference in lengths due to the construction of Jamal Bund and new loop to Panah Baghar Bund in the Karáchi Canals District ...	—2
Difference in length of 2 miles of Mulchand Shahbunder Bund-Rajwah to Gungri shortened by construction of new loop and 1 mile of Mulchand to Rajwah found short by actual measurement ...	—3
Increase due to Decimal figures ...	+1.16

Areas of principal crops, Government, Foreign and Jághir.

15. The areas of principal crops irrigated during the year are given below:—

STATEMENT F.

Crops.	1913-1914.			Average for three previous years.	1912-13.	Increase or decrease as compared with average.	Increase or decrease as compared with 1912-13.
	Lift.	Flow.	Total.				
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif: Rice ...	194	677,009	677,143	690,499	644,664	—13,356	32,479
Jowári ...	114,981	282,610	397,591	345,812	380,421	51,779	17,170
Bájri ...	42,007	91,106	133,113	112,693	153,186	20,420	—20,073
Cotton ...	662	1,419	2,081	1,751	1,836	330	246
Other crops ...	8,819	72,225	81,044	72,973	74,879	8,071	6,165
Total ...	166,603	1,124,369	1,290,972	1,223,728	1,254,985	67,244	35,987
Rabi: Wheat ...	14,769	184,226	198,995	191,694	192,584	7,301	6,411
Barley ...	917	12,030	12,947	9,546	8,032	3,401	4,915
Oil-seeds ...	13,139	158,935	172,074	114,460	100,513	57,614	71,561
Other crops ...	1,389	260,988	262,377	278,772	233,942	—16,395	28,435
Total ...	30,214	616,179	646,393	594,472	535,071	51,921	111,322
Grand Total ...	196,817	1,740,548	1,937,365	1,818,200	1,790,056	119,165	147,309

Compared with the average of the previous three years this shows a decrease of 13,356 acres under rice in the kharif season, and 16,395 acres under other crops in the rabi season and an increase under jowári, bájri, cotton and other crops in kharif and also under wheat, barley and oil-seeds in rabi. As compared with the previous year, there was an increase in kharif of 32,479, 17,170, 246, 6,165 under rice, jowári, cotton and other crops respectively, and a decrease in kharif of 20,073 under bájri. Under rabi there was an increase of 6,411, 4,915, 71,561, 28,435 under wheat, barley and oil-seeds and other crops, respectively. The total cultivation as compared with the previous year and the average of the previous triennium shows an increase of 147,309 and 119,165 acres, respectively.

16. The percentage of kharif and rabi on the total area irrigated in this Division were 67 and 33 respectively. The highest percentage, viz., 83 of kharif was in the Karáchi Canals District and the lowest 60 was in the Western Nára District, while the Begari, Shikárpur and Ghar Districts had, respectively, 68, 64 and 62 per cent. The Karáchi Canals, the Ghar and the Western Nára Districts had, as usual, the largest rice areas with 224,575, 217,349 and 175,293 acres, respectively, out of the total rice cultivation of the Division of 677,143 acres. The largest areas under jowári were in the Begari Canals and Shikárpur Canals Districts, viz., 185,424 and 92,123 acres, while the largest under bájri 91,545 acres was in

the Begari Canals District and under cotton 1,030 acres in the Shikárpur Canals District. Of the rabi crops wheat was largely grown in the Shikárpur, Western Nára, Begari and Ghar Canals Districts, barley in the Karáchi Canals District, and oil-seeds in the Begari, Western Nára and Ghar Canals Districts. Ten per cent. of the whole area was watered by lift and 90 per cent. by flow against 11 and 89 per cent. respectively during the previous year.

17. The duty and delta for the year were 66 and 4.7, respectively, as compared with 85 and 4, respectively of the previous year. The decrease in the duty is apparently due to disproportionate increases in the average discharge and the net area irrigated and the increase in the delta to an increase in the number of days of flow of the canal.

The duty and delta were 51 and 4.5, respectively, as compared with 60 and 4.3, respectively of the previous year. The decrease in the duty is due to the same cause as that on the Desert Canal. The delta 4.5 was only .2 in excess of that of the previous year.

The duty and delta were 82 and 5, respectively, as compared with 53 and 4.4, respectively of the previous year. The increase in the duty was due to increase in the net area irrigated, and the increase in the delta to an increase in the period of flow of the canal.

The duties and deltas obtained on the canals in this district were with the exception of the Mahiwah, the Rajibwah and the canals in Rohri better than those of the previous year owing to full advantage having been taken of the supply available. The difference in the case of the Mahiwah is very little and so also in the case of the duties of the canals in Rohri, while in the case of the Rajibwah it is only the delta that is slightly higher, the duty being better than that of the previous year.

The kharif and rabi duties were 35 and 341, respectively, as compared with 37 and 220, respectively, of the previous year, and the deltas were 6.1 and 1.1 for kharif and rabi, respectively, as compared with 6.1 and 1.5, respectively, of the previous year. The increase in the duty for rabi and the decrease in the delta was due to increases in the average discharge and the net area irrigated, the former having become doubled and the latter trebled.

The duty and delta for the year were 129 and 2.9, respectively, as compared with 88 and 3.6, respectively, of the previous year. The increase in the duty and decrease in the delta was due to a decrease in the average discharge.

The duties of all the canals in this district, except the canals north of Kotri, on which there was an appreciable decrease, compare favourably with those of last year which may be attributed to the best use having been made of the supply available. This is specially evident in the case of the Wahurwah the average discharge of which was only 42 cusecs as compared with 109 cusecs of the previous year, yet the net area irrigated was almost the same as last year, and the duty and delta were 57 and 3.7, respectively, as compared with 24 and 6.8 respectively of the previous year. The deltas of all the other canals particularly the Marviwah, the Phitto canal, the Chario Wahur and the canals north of Kotri were higher than those of the preceding year which may be attributed to the canals flowing for a longer period than in the previous year.

The duties obtained on the Sattah, Kalri, Pinyari and Baghar Canals were 16.6, 25.2, 23.2 and 7.1, respectively, as compared with 14, 30, 32 and 6, respectively, of the previous year, and the deltas were 12.9, 8.5, 9.2 and 30, respectively, as compared with 15, 8.1, 9.6 and 60, respectively, of the previous year.

year. There was a slight improvement in the duties on the Sattah and the Baghar but all the duties were low owing to the cultivation being mostly rice. The deltas on the Sattah and the Pinyari show a slight improvement and that on Baghar a marked improvement, the delta on the last being reduced by one-half. The delta in this canal is still high, and this is due to the large quantity of water which runs to waste into the sea.

18. On "Major Works" the incidence of working expenses on assessed revenue and per acre irrigated were 49.50 per cent. and Rs. 1.04 per acre against 63.8 and 1.33 of the last year.

Incidence of working expenses on the assessed revenue.

Under "Minor Works" the incidence of the working expenses on assessed revenue and per acre irrigated were 24.30 per cent. and Rs. 0.90 per acre against 25.54 and 0.88 of the last year.

19. The total value of crops grown on the irrigated area of 1,937,365 acres was estimated by the Revenue authorities at Rs. 4,26,66,170 which gives an average of Rs. 22 per acre.

Value of each kind of crop irrigated.

20. The agricultural and other conditions of the year as affecting the areas irrigated by the principal works, the nature of seasons, the state of demand and supply are given in the following paragraph.

21. The principal irrigation works in this Division are the Desert Canal, the Unharwah, the Begari, the Mahiwah, the Sukkur Canal, the Ghar and the Sattah. The first four are Major (Productive) Works, and the remaining three Minor Works for which both Capital and Revenue Accounts are kept.

There are also other irrigation systems, *viz.*, the Sind Canal, the Western Nára, the Baghar, the Kalri and the Pinyari. These, however, with a number of small canals taking off direct from the river, are classed as Works for which only Revenue Accounts are kept.

All the canals are inundation canals with the exception of the Sukkur, which nominally has a perennial supply.

The inundation of 1913 was, if anything, a little worse than that of 1912, both on account of its being late and of short duration and on account of numerous fluctuations in the level of the river and the low water level in the middle and the end of July when water is usually in most demand.

The river began to rise in the beginning of June, but owing to the fluctuations referred to, the fair irrigating level of 13 feet on Bukkur Gauge was not reached before the 2nd August. This level and above was maintained for 16 days only up to 17th August, as compared with 31 days, in the previous year and 43 days, the average of the previous 10 years, and was never reached again during the inundation. The fair irrigating level of 17 feet on Kotri gauge was first registered on the 17th June and this level or above was maintained for the following period during the inundation—17th June to 22nd June, 4th to 11th July, 21st to 23rd July and 25th July to 11th September, making together a total of 66 days as compared with 59 days in the previous year and 66 days (same as in 1913) the average of the previous ten years.

There was an abnormally heavy rainfall during the year; in many places this rain was very useful, was of much benefit to the crop and increased the area under cultivation; on the other hand, in lower Sind where it was excessive, much damage was caused by flooding low-lying areas.

The supply in the Desert Canal was not very satisfactory owing to the great fluctuations of the river in June, July and August. The supply in the Unharwah was most precarious owing to active erosion above and below the mouth of the canal, resulting in a very heavy silt deposit in the canal. The work of excavating a new mouth to the Begari was completed in May 1914 and the supply passed into the canal during the year was one of the largest on record. In spite of the poor inundation, the Sukkur Canal has done well. This year owing to heavy erosion at the mouth of the Rahuja Dhoro, it has

silted up heavily and ceased to flow on 15th September. Owing to the unsatisfactory state of the river at the new head, the old head regulator was opened on July 14th to supplement the supply coming through the Rahuja Head. This was of great benefit to the kharif crop and also afforded a good supply for rabi.

The supply in the Mahiwah was fairly good throughout the season. Owing to the early fall of the river the standing crops would have suffered much, but they were saved to a great extent by the rainfall in August and rotation in the supply to branches. The rotations also enabled some additional area to be cultivated in rabi. The Gudu Dhand which feeds the Mahiwah silted up to a certain extent during the abkalaní. This silt was removed in the last cold season.

The supply in the Western Nára at the end of the season was insufficient to meet the keen demand for kharif crops and watering land for rabi. Rotational closures of branches and outlets to big karias had to be resorted to to meet the wants of the Zemindárs of Mehar and Kakar Tálukas which, as usual, suffer from deficiency due to the great draw-off in the upper reaches of the canal. The project for a new feeder to supplement the supply in these tálukas is now ready with the Executive Engineer for submission, and it is believed that after the completion of this project the deficiency so bitterly complained of will disappear and these tálukas will once again get the good supply of past years and will soon revert to conditions of prosperity and plenty. On account of the unusually low level of the river at the end of the season, the prospects of the standing crops looked gloomy, but the rains were just in time to save the situation and helped greatly in maturing the crops. The new cut excavated in 1912 to supply the Pritchard Canal did not work satisfactorily and failed to bring the designed discharge into the canal. On account of active erosion above, a large sand bank was formed across the mouth of the channel. Endeavours were made to rake out the silt by large scrapers, but to no purpose. Owing to the changes in the course of the river this mouth became very unfavourable in the year under review, and the work of excavating a new mouth to this canal, which is a feeder to the lower half of the Western Nára, was accordingly taken in hand after the inundation season. The result of its excellent working will form a subject for review in the next year's report.

In the Karáchi Canals District the inundation of the year was far from satisfactory owing to constant fluctuations. The rainfall of the year was very heavy; in all, there were 4 heavy downpours and the first, which fell on the 18th and 19th July, was the heaviest. The inadequate supply in the river was supplemented by this heavy rainfall but most of the low-lying lands were submerged and the progress of cultivation was much retarded. The rainfall therefore did more harm than good.

The Pinyari Canal has three regulators. The fluctuations of the river and the heavy rainfall made the regulation a difficult matter, but it was on the whole carried out satisfactorily. The Baghar Canal needs embanking and a regulator at its head. This is essential as found from the working of the canal and numerous breaches in its banks during the inundation of 1914. This will however form a subject for review in the next year's report. There is much wastage of water in the upper reaches of the Kalri owing to the karias not having masonry sluices at their heads and taking off excess supply, which causes some deficiency at the tail. Besides the absence of banks to the canal prevents more than a limited supply being let down for the lower reaches, and it has consequently been found desirable to construct sluices at the heads of karias, with vents according to the holdings on each, and to provide embankments along low-lying portions of the canal. Necessary data is being collected by the Executive Engineer, Karáchi Canals, and the project will be brought up as soon as possible. It is also proposed to restrict the openings of sluices in the first 12 miles of the Sattah Canal in order to meet the demands in the lower reaches, where there are complaints of deficiency, and this will shortly be carried out.

The areas irrigated in the whole Division under different crops are given in statement F, paragraph 15 above. The average areas of kharif and rabi of the previous triennium shown in the statement F above referred to, show a decrease of 67,244 acres and 51,921 acres under kharif and rabi, respectively, and a decrease of 119,165 acres under total cultivation as compared with the year under report.

22. The following paragraphs give details of different works or groups of works.

I.—MAJOR WORKS.

PRODUCTIVE WORKS.

A.—*Desert Canal.*

Capital. 23. The expenditure was incurred under this head during the year under report.

A sum of Rs. 11,891 was spent during the year on (1) constructing Public Works Inspection Bungalows at Manjhi, Sanhri, Hairdin, (2) Telegraph Linemen's quarters at Kandhkot, (3) additions and alterations to Public Works Inspection Bungalow at Kandhkot, (4) renewing the roof with tiles, etc., of west side room of store at Kashmir, (5) metalling the semi-circular path in the compound of the Executive Engineer's office at Jacobabad, (6) constructing a Daroga's landhi at Manjhi (5th mile of Manuti branch), (7) providing Taki stones along Desert Canal and branches, (8) providing bench mark stones along canals in Kashmir and Toj sub-divisions.

Maintenance and repairs. The main canal and its branches were maintained in good order at a cost of Rs. 1,03,887 including Work Establishment.

Irrigation. The total area irrigated during the year under report was 165,017 acres out of which 110,931 acres were under kharif, and 54,086 acres under rabi, including Dubari, against 1,74,526 acres being the average of past three years and 180,232 acres irrigated in the previous year 1912-13. The comparison of cultivation shows a decrease of 9,509 acres over the average and of 15,215 acres over the cultivation of the previous year. The supply was not very satisfactory owing to the great fluctuation of the river in June, July and August.

Financial results. The gross revenue from all sources amounted to Rs. 3,26,868 compared with Rs. 3,50,931 of the last year and Rs. 3,37,814, the average of the previous triennium. Deducting working expenses Rs. 1,51,221 the net revenue during the year was Rs. 1,75,647 or 6.46 per cent. on the Capital outlay to end of the year as compared with 6.69 per cent., the average of the last triennium and 7.01 per cent. in the last year. Decrease in cultivation and revenue as compared with the last year was also due to the fact that people of Begari who had come and cultivated lands on this canal went back owing to good water-supply in Begari this year under report.

General remarks. The remissions granted amount to Rs. 44,489 against Rs. 31,145 of the previous year and Rs. 26,898 the average remissions of the past three years. The net increase in remission as compared with the last year was due to damage caused to rabi crops by insects and adverse winds. The principal crops grown were rice 12,822 acres, jowari 52,886, bajri 32,723, wheat 18,952 and oil-seeds 16,613 acres and the estimated value of the outturn was Rs. 40,13,529 or Rs. 24 per acre.

B.—*Unharwah.*

Capital. 24. The expenditure incurred under this head during the year under report was Rs. 10,000 and was spent on constructing a new Head Regulator on Unharwah at mile 7 above Tangwani branch.

A sum of Rs. 749 was spent during the year on (1) additions to cross Regulator at mile 20 $\frac{1}{2}$ of the Násir branch ex-Unharwah, (2) fixing taki bricks at each taki in certain lengths of Unharwah and Branches, (3) providing, fixing and painting iron furlong posts along Hazaro and Khairwahs, (4) providing stone bench marks at every mile in connection with the fixing of taki bricks along canals in Unharwah sub-division.

The main canal and its branches were maintained in good order at a cost of Rs. 40,934 including work establishment.

The total area cultivated during the year was 62,062 acres out of which 45,280 acres were under kharif and 16,782 acres under rabi as compared with the average of the past three years of 74,116 acres and with the previous year's cultivation of 78,737 acres. The comparison shows a decrease of 12,054 acres over the average of the previous triennium and of 16,675 acres over the cultivation of the previous year. The decrease was due to active erosion above and below the mouth of the canal, resulting in a very heavy silt deposit in the canal.

The gross revenue amounted to Rs. 1,33,238 compared with Rs. 1,72,429 of the last year and Rs. 1,61,486, the average of the previous triennium. Deducting working expenses Rs. 56,413 the net revenue during the year was Rs. 76,825 or 10.62 per cent. on the Capital outlay to end of the year as compared with 15.85 per cent. the average of the previous triennium, and 17.05 of the last year. The decrease in revenue is due to same causes stated above in the case of cultivation.

The remissions granted amount to Rs. 12,418 against Rs. 3,472 of the previous year and Rs. 5,393 of the previous triennium. The principal crops grown were jowári 13,812, bájri 24,914, wheat 8,547 and oil-seeds 1,563 acres and the estimated value of the outturn was Rs. 17,72,409 or Rs. 29 per acre.

C.—*Begari Canal.*

25. A sum of Rs. 12,929 was spent during the year on works in connection with the Choi branch project, such as land compensation, bridges and extension of Choi tail distributary.

During the year under report, Rs. 61,561 were spent on (1) widening Nurwah and constructing masonry works over it, (2) excavating a new cut to Mirzawah, (3) additions and alterations to 38th mile Regulator of the Begari Canal and to Public Works Department Inspection Bungalows class I at Khairo Garhi and Wakro, (4) and on some other works such as constructing Telegraph office, and signaller's quarters at 13th mile Choi Branch, a well at Chana 29th mile Begari Canal and providing T-iron mile and furlong posts, fixing and painting taki bricks, &c.

The main canal and its branches were maintained in good order at a cost of Rs. 1,72,767 including the Work Establishment against the sum of Rs. 2,39,133 spent during the previous year.

The total area cultivated during the year was 304,967 acres out of which 204,318 acres were under kharif and 100,649 acres under rabi as compared with 176,000 acres, the average of the previous triennium, and with the 137,591 acres of the previous year. The comparison shows an increase of 128,967 acres over the average and 167,376 acres over the cultivation of the previous year. The increase was due to good water-supply in the canal owing to excavation of a new head.

The gross revenue of the year amounted to Rs. 5,78,462 compared with Rs. 2,42,246 of the last year and Rs. 3,34,767, the average of the previous triennium. Deducting

working expenses Rs. 3,05,667 and share due to old irrigation Rs. 24,854, the net revenue during the year due to improvements was Rs. 2,47,941 or 10·57 per cent. on the capital outlay to end of the year as compared with a —4·29 per cent. in last year and 3·79 per cent. the average of the previous three years. The net revenue due to improvements last year was—99,951 and of the average of the previous triennium 80,201. The increase in the net revenue is due to same causes as given above under paragraph of cultivation.

The remissions during the year amounted to Rs. 49,529 against Rs. 64,544, the average of the previous triennium, and Rs. 81,338 of the previous year. As compared with the last year, the decrease in the remissions in the kharif was due to the same causes as shown under cultivation and an increase of remissions under rabi was due to damage caused by insects and adverse winds. The principal crops grown were jowári 118,207, bájri 32,866, rice 16,896, oil-seeds 37,332 and wheat 19,911 acres, and the estimated value of the outturn was Rs. 69,27,938 or Rs. 23 per acre.

D.—Mahiwah.

Capital. 26. No expenditure was incurred under this head during the year under report.

Extensions and Improvements. The sum of Rs. 3,936 was spent on (1) constructing a new Public Works Inspection Bungalow with outhouses at Mirpur on Masuwah *ex* Mahiwah, (2) additions and alterations to Public Works Inspection Bungalows at Mirpur, Khai Kenji, Kander, Tangeji and Jado Pitafi and on some other small works.

Maintenance and repairs. The canal and its branches were maintained in good order at a cost of Rs. 51,464 including Work Establishment.

Irrigation. The total area irrigated was 60,789 acres, of which 42,708 acres were under kharif and 18,081 acres under rabi. As compared with the average of the previous triennium, there is an unappreciable decrease of 1,839 acres in kharif cultivation which was saved by timely rains and rotations and 8,562 acres in rabi, and a total decrease in cultivation 10,401 acres. The decrease in rabi is due to sudden fall of the river in the middle of August and to the silting of the Gudu Dhand during the Abkalani, which was cleared in the cold season of 1913-14.

Financial results. The gross revenue amounted to Rs. 1,56,688, and the working expenses to Rs. 74,328. Deducting working expenses and Rs. 89,217 of share due to old irrigation, the net revenue due to improvements comes to Rs.—6,857 and represents —·48 per cent. on the Capital outlay as compared with 1·46 per cent, the average of the previous triennium. The average net revenue due to improvement, of the previous triennium is 20,640. The decrease in revenue is due to the same causes as given for cultivation above.

General remarks. The remissions granted amounted to Rs. 2,034 of which Rs. 531 were on account of kharif and Rs. 1,503 on account of rabi. The principal crops grown were jowári 23,197 acres, bájri 11,520 acres, rice 6,798, wheat 13,049 acres and oil-seeds 1,404 acres. The estimated value of the outturn was Rs. 10,63,955 or Rs. 18 per acre.

II.—MINOR WORKS AND NAVIGATION.

A.—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

1.—Sukkur Canal.

Capital. 27. No expenditure was incurred under this head during the year.

Extensions and Improvements. No expenditure was incurred under this head during the year.

The main canal and its branches were maintained in good order at a cost of Rs. 42,977 including work establishment as compared with Rs. 44,936 in the previous year.

Maintenance and repairs.

The total cultivation was 106,148 acres, of which 64,226 acres were under kharif and 41,922 acres under rabi. The total cultivated area compared with the average of the previous triennium of 98,627 acres and of the previous year of 77,509 acres was more by 7,521 and 28,639 acres, respectively. The increase in cultivation is in rabi and is due to the good working of the old head regulator which was opened on July 14th. It afforded a very good supply for the crop as it did not cease to flow until the 18th March 1914. The small decrease in kharif cultivation is attributed to poor inundation in kharif season.

Irrigation.

The gross revenue realized amounted to Rs. 2,62,180 compared with Rs. 1,91,827 of the last year and Rs. 2,37,070, the average of the previous triennium. Deducting working expenses Rs. 75,969 and share due to old irrigation Rs. 71,444, the net revenue during the year due to improvements was Rs. 1,14,767 giving a return of 8.05 per cent. on the capital outlay against 3.07 of the last year and 6.47 per cent. the average of the previous triennium. The net revenue due to improvement compared with average of previous triennium was more by Rs. 22,473. The increase in net revenue is partly due to the increase in cultivation and partly attributed to the enhanced rates according to the revised settlement.

Financial results.

The remissions granted during the year amounted to Rs. 3,379 against Rs. 39,004 in the previous year. The principal crops grown were rice 34,064, jowari 21,768, bajri 1,677, wheat 17,711 and oil-seeds 7,592 acres. The estimated value of the outturn was Rs. 21,44,431 or Rs. 20 per acre.

General Remarks.

2.—Ghar Canal.

28. A sum of Rs. 4,043 was spent under this head during the year on taking over and remodelling Kur Matal a zamindari karia *ex* Naurang Canal mile 7/4 right bank.

Capital.

The sum of Rs. 2,873 was expended under this head during the year on (1) additions and alterations to the office block attached to the Executive Engineer, Ghar Canals Bungalow at Larkana, (2) renewing the roof of the stables attached to the Public Works Department Inspection Bungalow Class I at Larkana, (3) providing fire buckets with stands for the office of the Executive Engineer, Ghar Canals at Larkana, (4) widening and improving Mirwah No. 2 *ex* Chilo.

Extensions and Improvements.

The total expenditure during the year was Rs. 1,19,435 including work establishment against Rs. 1,11,832 as compared with that of the previous year. The increase is due to improvement to the Dhoro feeding the Ghar Dhand to replace the 1910 feeder on which Rs. 7,000 were spent.

Maintenance and repairs.

The total cultivation was 357,548 acres, of which 223,756 acres were under kharif and 133,792 acres were under rabi against 369,443 acres in the previous year and 355,657 acres, the average of the previous triennium. The figures of the year under report show a small increase in cultivation over those of the last triennium.

Irrigation.

The gross revenue amounted to Rs. 10,01,379 compared with Rs. 9,86,888 of the last year and Rs. 9,38,907, the average of the previous triennium. Deducting working expenses Rs. 2,26,985 and share due to old irrigation Rs. 1,16,671, the net revenue during the year due to improvements was Rs. 6,57,723 which represents a return of 113.90 per cent. on the capital outlay against 114.90 per cent. of the last year and 101.95 per cent., the average of the previous triennium. The net revenue due to improvement compared with average of the previous triennium was more by Rs. 74,128. The increase in net revenue is due to the enhanced rates according to the revised settlement.

Financial results.

The remissions granted during the year amounted to Rs. 13,740 against Rs. 43,272 of the last year. The principal crops grown were rice 183,101, jowári 32,584, wheat 29,174 and oil-seeds 32,654 acres. The estimated value of the outturn was Rs. 86,49,730.

General Remarks.

3.—Sattah.

Capital.

29. No expenditure was incurred under this head.

Extensions and Improvements.

No expenditure was incurred under this head.

The sum of Rs. 8,589 was spent during the year under this head including work establishment, against Rs. 12,329 of the last year.

Maintenance and repairs.

The total area irrigated including Dubari in 1913-14 was 16,824 acres of which 14,497 were under kharif and 2,327 under rabi. The increase in the total cultivation as compared with the average of the previous triennium of 14,413 acres is 2,411 acres, which is chiefly due to the fact that large areas which were submerged by the heavy rains were cultivated with rabi crops, the increase on which alone is 1,711 acres.

Irrigation.

The gross revenue amounted to Rs. 21,877 compared with Rs. 27,069, the average of the previous triennium. Deducting working expenses Rs. 10,573 and share due to old irrigation Rs. 6,927, the net revenue during the year due to improvement was Rs. 4,377, which represents 2.43 per cent. on the capital outlay as compared with—2.76 per cent., the average of the previous triennium. The increase in the net revenue due to improvement is due to the reduction in the amount of working expenses as compared with the average of the last three years' expenditure, Rs. 25,124. It will, however, be seen that there is a reduction in the gross revenue of 1913-14 as compared with the average of last three years gross revenue, although the total cultivation during the year under report is more. This is due to heavy remissions Rs. 8,580 having been granted owing to the damage caused by rains.

Financial results.

The remissions during the year amounted to Rs. 8,580 against Rs. 442 in the previous year and Rs. 7,990, the average of the previous triennium.

General Remarks.

B.—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

(1) Canals in the Shikárpur Canals District.

30. The principal canals are the Sind, Rajib, Chitti, and Garang on the right bank of the river and the canals in the Rohri Division on the left bank.

The sum of Rs. 26,512 was spent under this head (1) constructing a regulator in the Adartakio loop over Colonel Fife's Channel; (2) renewing a bad bund from mile 7/6 to 8/3 of Sind Canal; (3) raising and strengthening the left bank of Rajib Canal mile 1/4 to 4; (4) constructing a regulator over the Garang Canal and on other small works.

Extensions and Improvements.

The expenditure incurred under this head was Rs. 1,19,848 including work establishment against Rs. 1,16,481 in the previous year.

Maintenance and Repairs.

The total area irrigated under this head was 157,530 acres of which 102,577 acres were under kharif and 54,953 acres under rabi. As compared with the average of the previous triennium of 156,721 acres, it shows an increase of 809 acres. The

Irrigation.

increase as compared with the average is not appreciable, but the inundation was better than that of the preceding years and rainfall was more abundant and timely and most beneficial to all the crops.

The total canal revenue realized was Rs. 4,63,352, and the total revenue charges Rs. 1,61,859, which amounts to 34.9 per cent. of the revenue and Rs. 1.1 per acre of the area irrigated excluding Dubari. The corresponding figures for the previous triennium averaged 35.7 per cent. and Rs. 1.1, respectively. The comparison of the revenue of the year under report with that of the average of the previous triennium of Rs. 4,18,899 shows an increase of Rs. 41,453 and with that of previous year of Rs. 3,83,917, an increase of Rs. 79,435. The increase is due to the same causes as given above under cultivation paragraph.

The remissions granted amounted to Rs. 5,419 against Rs. 36,307 last year. The principal crops grown were jowári, rice, bájri, wheat and oil-seeds. The estimated value of the outturn was Rs. 23,71,673.

(2) *Canals in the Western Nára District.*

31. The district comprises the following main canals, which take off direct from the river.

The Western Nára with its two feeders (the new feeder and the Pritchard Canal), the Marvi, the Wahur, the Phitta, the Chario Wahur with the Aral and the Dunster, the Dadu Canals and the canals north of Kotri.

The Muncher Lake is fed by the Aral, Dunster, Western Nára and rain water from the hills and again drained off for cultivation through the Aral and Dunster when the river falls.

A sum of Rs. 21,959 was spent under this head on (1) improvements to the Kudanwah ex the Western Nára mile 61/7, (2) improvements to Dhamrao Canal ex. the Western Nára, (3) improvements to Ganjrote Branch ex the Dhamrao Canal, (4) constructing regulators over the Ghariwah and Wadhuwah at mile 76/4 and 79 of the extension of the Western Nára Bunds, and the rest on minor works consisting of constructing new banks and raising and strengthening of existing banks of canals, additions and alterations to Inspection Bungalows and constructing sluices over zamindári and forest karias.

The total expenditure under this head including special repairs amounted to Rs. 2,48,969 and was incurred on special and ordinary repairs to buildings, clearance of canals, clearing the channel of the Akil Dhand and the Gharo from the river to feed the Western Nara Canal and on excavating a new head to the Pritchard Canal.

The total area irrigated was 413,200 acres of which 248,874 acres were under kharif and 164,326 under rabi. There was an increase of 1,648 acres under kharif and a decrease of 11,118 acres under rabi, and a decrease of 9,470 acres in the total cultivation as compared with 422,670 acres of the average of the total cultivation of the previous triennium. The decrease is due to the poor inundation which was the worst on record since 1907.

The total canal revenue realized during the year was Rs. 10,30,678 as compared with Rs. 10,55,277, the average of the past three years. The revenue charges during the year were Rs. 3,55,456, being 34.5 per cent. of the revenue and Rs. 1.1 per acre of the area irrigated excluding Dubari, the average corresponding figures of the previous triennium being 23.1 and Rs. .7 respectively. The decrease in revenue is due to the same causes as given above for cultivation.

The remissions granted during the year under review amounted to Rs. 1,24,778 against Rs. 82,629 of last year, the average of the previous triennium being Rs. 69,020. The principal crops grown were rice, jowári, bájri, wheat and oil-seeds.

General Remarks.

3.—Canals in the Karáchi Canals District.

32. The principal canals are the Kalri, Baghar, Pinyari and Kokawari.

The expenditure incurred under this head was Rs. 81,718 and was spent on (1) constructing proposed Baghar head regulator, (2) extension of Falakchand, (3) constructing regulators over Gunri, Ghari Chandan and Mirza Canal, (4) constructing head regulator over Kalri Canal, (5) constructing embankment along the left bank canal of the Baghar Canal, (6) constructing new head regulator over the Chatho Nandho in the new loop behind miles 45/7 to 49 of Mulchand Shahbunder Bund and on some other small works.

Extensions and Improvements.

The expenditure incurred under this head was Rs. 1,78,518 including work establishment against Rs. 1,64,169 of last year.

Maintenance and Repairs.

The total area irrigated was 264,492 acres of which 217,343 were under kharif and 47,149 under rabi. As compared with the average of the previous triennium, there was an increase of 4,265 and 15,369 acres under kharif and rabi respectively, and an increase of 19,634 acres under total cultivation. The large increase under rabi is due to the areas flooded by rains having been cultivated with rabi crops.

Irrigation.

The total canal revenue realized was Rs. 3,17,038, and the maintenance and revenue charges amounted to Rs. 2,07,206, which amounts to 65.4 per cent. of the revenue and .9 per acre on the area irrigated excluding Dubari; the corresponding figure for the average of the three previous years being 33.3 and .9 rupees. The comparison of the revenue for the year under report with that of the previous triennium shows a decrease of Rs. 79,466 which, in spite of an increase in cultivation, is due to heavy remissions amounting to Rs. 1,66,403 due to floods caused by the heavy rains, the amount remitted on this account alone being as much as Rs. 1,63,677.

Financial Results.

The remissions amounted to Rs. 1,66,403 against Rs. 59,331 of last year and Rs. 87,646, the average of the previous triennium. The principal crops grown under this head were rice, bájri, jowári, barley and oil-seeds.

General Remarks.

C.—WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

33. The principal bunds in this Division on the right bank of the river are the Kashmor, SukkurBegari, Ghar, Nara, Bunds north of Kotri, and Right Bank Bunds in the Karáchi Canals District; and on the left bank, the Kasimpur and the Karáchi District Bunds.

The sum of Rs. 2,57,245 was spent during the year under this head. The principal works carried out were, constructing a bund along the boundary of Vazir Forest in the Shikárpur Canals District, extending Western Nára Bunds from mile 69/1 to 80/6, Public Works Inspection Bungalow Class II on the Western Nára Bund, raising and strengthening the Manjhand Bund from 0 to mile 3/0, raising and strengthening Nára Bund at mile 61 to 67/2, linking up Butho and Manjhand Bund and other works in the Western Nára District; raising and strengthening Baghar Uchito Bund from mile 0 to 30/6, Panah Baghar Bund miles 2/5 to 12/5, portions between miles 20/4 to 43 of the Mulchand Shahbunder Bund, and Mulchand Shahbunder Bund, Rajwah to Gungri miles 43-5 to 45-7 and 49 to 49-7 and 49-7 to 52; constructing Telegraph offices and Signaller's quarters at Pinyari Head Regulator, Kotalmo, Belo, Saidpur and Sattah in the Karáchi Canals District.

Extensions and Improvements.

The expenditure of maintenance and repairs and special repairs to river embankments including Establishment and Tools and Plant charges was Rs. 5,49,830 against Rs. 6,40,034 of last year.

The cultivation in 1913-14 on the canals ex-Kashmor Bund, on Bunds in the Shikárpur Canals, Karáchi Canals, Western Nara, and Ghár Canals Districts was 2,985, 10,769, 9,928, 3,936 and 1,170 acres respectively, and the revenue Rs. 6,700, 28,174, 16,152, 9,727 and 437 respectively. The average cultivation and revenue of the previous triennium on the bunds in the above district were 4,395 acres, Rs. 10,731; 9,585 acres, Rs. 27,023; 9139 acres, Rs. 15,512; 3,548 acres, Rs. 12,365; 778 acres, Rs. 2,822.

The most important works classed under special repairs were the completion of the unfinished 1912 Unharwah loop, constructing bund along the toe and along the front slope of Gauspur loop for wetting the loop, constructing pumping station at Gauspur and constructing Haibat loop from Ghora Ghat to Tori stop gate regulator in the Begari Canals District, constructing a new loop to Sukkur Begari Bund from miles 16/4 to 19, and from 4/6 to 7/4 (Garang loop) in the Shikárpur Canals District; constructing Thahimani loop from mile 33 to 77 of the Baghar Uchito Bund, constructing new Uplanki loop and constructing new loop at mile 46 to 49/1 of Mulchand Shahbunder Bund, Rajwah to Gungri in the Karáchi Canals District. A sum of Rs. 6,669 was spent on the Mathematical Instrument Depôt, on Establishment and Tools and Plant. A total sum of Rs. 2,35,677 was spent by the Chief Engineer, Indus River Commission, of which Rs. 28,740 was spent on making surveys on the Indus, Rs. 65,142 on Sukkur Barrage Committee, Rs. 1,018 on constructing a detached store room at Kotri, Rs. 26,495 on maintenance and repairs of which Rs. 25,789 were spent on maintenance of steamers and gauges and snagging the river Indus, and small amount Rs. 706 on maintenance of other works; Rs. 1,01,576 under regular Establishment and Rs. 12,706 under Tools and Plant.

34. The expenditure on, and receipts from, gardens maintained in this Division as compared with those of the previous three years are as follows:—

Year		Expenditure on maintenance of gardens during the year.	Receipts during the year.
		Rs.	Rs.
1910-1911	...	4,099	1,918
1911-1912	...	3,729	2,245
1912-1913	...	3,816	2,043
1913-1914	...	3,712	2,437

35. The total number of trees planted during the year in this Division was 1,21,029, of which 82,227 were babul, and the rest principally Talli and Nim. The number of trees alive at the end of the year was 4,85,313 including 3,06,341 babul. The number of young trees transferred from nurseries for plantation on canal banks was 1,88,811 including 69,400 babul.

36. The Division was in charge of the following officers in the year under report:—

Division.	Names of Officers.	Months.	Days.
Indus Right Bank Division.	Mr. F. St. J. Gebbie	...	12

The following officers were in charge of the executive districts :—

District.	Name of Executive Engineer.	Months.	Days.
Karáchi Canals District	Mr. H. B. Evington	10	15
	„ J. M. Mackay	1	16
Ghár Canals District	„ S. R. Perfect	8	23
	„ M. A. Mirza	3	8
Western Nára District	„ B. E. Vachha	12	...
Shikárpur Canals District	„ D. R. H. Browne	7	2
	„ E. M. Procs	4	28
Begári Canals District	„ R. B. Maclachlan	12	...

F. ST. J. GEBBIE,
Superintending Engineer, Indus Right Bank Division.

No. 5920 OF 1914.

PUBLIC WORKS DEPARTMENT:

Karachi, 22nd December 1914.

From

F. ST. J. GEBBIE, Esq.,
Superintending Engineer,
Indus Left Bank Division ;

To

THE SECRETARY TO GOVERNMENT,
Public Works Department,
Bombay.

Sir,

I have the honour to submit the Irrigation Revenue Report for Sind for the year 1913-14.

I have the honour to be,

Sir,

Your most obedient servant,

F. ST. J. GEBBIE,
Superintending Engineer, Indus Left Bank Division.

Accompaniments :—

As per index attached.

Through

THE CHIEF ENGINEER IN SIND
and
THE COMMISSIONER IN SIND.



ANNUAL IRRIGATION REVENUE REPORT, INDUS LEFT BANK DIVISION, SIND, 1913-1914.

The inundation of 1913 was a little worse than that of 1912, both on account of its being late and of short duration and on account of numerous fluctuations in the level of the river, and the low level in the middle and end of July.

The diagram sent in advance of this report compares the inundation of 1913 with the two previous years and with the 10 years' average.

The following table shows the principal features of the year compared with those of previous years :—

	Average of 10 years including 1912.	Average of 8 years including 1912.	1912.	1913.
			Days.	Days.
<i>Gauges—</i>				
Bukkur 10 feet and over	90	78	60	60
" 13 " "	48	21	31	16
Kotri 14 " "	115	128	100	114
" 17 " "	66	86	59	66
<i>Irrigation—</i>				
Kharif	Acres.	1,225,754	1,296,483	1,294,553
Rabi	"	213,099	202,653	194,353
Total	Acres.	1,438,853	1,499,136	1,488,906
Gross Revenue	Rs.	97,03,586	88,24,927	87,00,907
Working Expenses	"	16,81,130	17,47,857	17,24,381
Net Revenue neglecting simple interest	Rs.	20,22,456	20,77,070	19,76,526

2. The gross assessed areas for the year are given in the subjoined statement A :—

STATEMENT A.

Year and Class of crops.	Major Works.	Minor Works and Navigation.				Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
Average of 8 years including 1912-13.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	526,627	453,847	245,290	.....	699,127	1,225,754
{ Kharif... Rabi ...	131,529	53,459	28,111	.....	81,570	213,099
Total ...	658,156	507,306	273,391	.....	780,697	1,438,853
1912-13	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	557,605	479,903	258,975	.....	738,878	1,296,483
{ Kharif... Rabi ...	133,035	43,329	26,289	.....	69,618	202,653
Total ...	690,640	523,232	285,264	.....	808,496	1,499,136
1913-14	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	568,204	470,640	255,709	.....	726,349	1,294,553
{ Kharif... Rabi ...	123,228	45,857	25,268	.....	71,125	194,353
Total ...	691,432	516,497	280,977	.....	797,474	1,488,906
Increase or decrease as compared with average.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	+41,577	+16,793	+10,429	.....	+27,222	+68,799
{ Kharif... Rabi ...	-8,301	-7,602	-2,843	.....	-10,445	-18,746
Total ...	+33,276	+9,191	+7,586	.....	+16,777	+50,053
Increase or decrease as compared with 1912-13.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
	+10,599	-9,263	-3,266	.....	-12,529	-1,930
{ Kharif... Rabi ...	-9,807	+2,528	-1,021	.....	+1,507	-8,300
Total ...	+792	-6,735	-4,287	.....	-11,022	-10,230

The area under both kharif and rabi compared with the previous year's areas shows a decrease of 1,930 and 8,300 acres respectively, while comparing with the average of previous three years' areas the kharif shows an increase of 68,799 acres and rabi a decrease of 18,746 acres.

The area under 'Major Works' under kharif exceeds that of the previous year and of the average, while that under rabi shows a decrease in both cases. Under 'Minor Works', there is an increase under kharif, when compared with the average, but a decrease when compared with the previous year; under rabi the comparative results are just the opposite.

3. The area of 'Dubari' or twice cropped land which is not included in Statement A was 28,809 acres, of which 7,272 acres were watered 'Dubari', 6,899 acres being in the Thar and Párkar District and 373 acres in the Nawabshah District. The 'Dubari' figures for the previous year and the average of the previous triennium were 26,919 and 29,246 acres, while those of 'watered Dubari' were 6,518 and 6,602 acres respectively.

Irrigation Assessment—Government and Jágir.
statement B :—

4. The total irrigation assessment for the year including 'Hakabo' for Jágir lands is given in

STATEMENT .B.

Year and Class of crops.	Major Works.	Minor Works and Navigation.				Grand Total.	
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.		
1	2	3	4	5	6	7	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Average of 3 years including 1912-13.	Kharif ..	15,94,982	10,85,942	6,00,215	.....	16,86,157	32,81,139
	Rabi ...	3,84,078	1,09,862	80,865	.....	1,90,727	5,74,805
	Total ...	19,79,060	11,95,804	6,81,080	.....	18,76,884	38,55,944
1912-13	Kharif..	16,66,764	11,53,126	6,37,082	.....	17,90,158	34,56,922
	Rabi ...	3,96,259	82,915	72,220	.....	1,55,135	5,51,394
	Total ...	20,63,023	12,36,041	7,09,252	.....	19,45,293	40,08,316
1913-14	Kharif..	16,49,694	10,51,005	6,27,678	.....	16,78,683	33,28,377
	Rabi ...	3,49,753	91,100	68,463	.....	1,59,563	5,09,316
	Total ...	19,99,447	11,42,105	6,96,141	.....	18,38,246	38,37,693
Increase or decrease as compared with average.	Kharif..	+54,712	-34,937	+27,463	.....	-7,474	+47,238
	Rabi ...	-34,325	-18,762	-12,402	.....	-31,164	-65,489
	Total ...	+20,387	-53,699	+15,061	.....	-38,638	-18,251
Increase or decrease as compared with 1912-13.	Kharif..	-17,070	-1,02,121	-9,354	.....	-1,11,475	-1,28,545
	Rabi ...	-46,506	+8,185	-3,757	.....	+4,428	-42,078
	Total ...	-63,576	-93,936	-13,111	.....	-1,07,047	-1,70,623

There was a decrease in the net assessed revenue of Rs. 1,70,623 and Rs. 18,251 compared with that of the previous year and the average of the previous three years respectively, due mainly to heavy remissions granted during the year, owing to floods caused by abnormal rains and to postponement of levy of the revised assessed rates in the Fuleli Canals District.

4. (a) The area cultivated on 'spill' water was 3,374 acres as compared with the previous year's area of 1,871 acres and 4,959 acres, the average of the previous three years.

Cultivation from spill.

5. The average net consolidated assessment per acre on Government land as compared with the previous year and the average of the previous three years is shown below :—

	Average of previous three years.	1913-14.	1912-13.
	Rs.	Rs.	Rs.
Major Works—Productive	3·08	2·97	3·05
Minor Works for which Capital and Revenue Accounts are kept.	2·70	2·51	2·71
Minor Works for which only Revenue Accounts are kept.	2·74	2·74	2·74
Average for all works	2·89	2·78	2·88

Actual realizations under all heads and the balances outstanding.

6. The following statement shows the realizations under all heads and the balances outstanding at the end of the year :—

STATEMENT C.

Years.	Collections.				Balances outstanding.
	Government land and Hakabo.	Miscellaneous.	Four per cent. irrigation share of proceeds from sale of occupancy rights.	Total receipts.	
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Average of past three years	35,30,457	72,847	1,00,282	37,03,586	1,90,018
1912-13	36,48,344	70,408	1,06,175	38,24,927	1,54,053
1913-14	34,87,417	98,445	1,15,045	37,00,907	1,15,500
Increase or decrease as compared with 1912-13...	-1,60,927	+28,037	+8,870	-1,24,020	-38,553
Increase or decrease as compared with average...	-43,040	+25,598	+14,763	-2,679	-74,518

The balance outstanding at the end of the year is less by Rs. 38,553 and Rs. 74,518 when compared with the previous year's balance and the average balance of the three previous years respectively. These outstanding balances are partly due to postponements granted to cultivators on account of their poor circumstances and partly to instalments due after the close of the financial year. There was a satisfactory reduction in the Jamrao Canal District, the balance outstanding at the end of the year being Rs. 27,654 against last year's balance of Rs. 52,708. The average outstanding balance of the three previous years was Rs. 75,759.

7. The remissions granted during the year amounted to Rs. 3,22,822 against Rs. 62,705 remitted last year and Rs. 65,079, the average remissions of the previous three years. The heavy remissions granted during the year were due to floods caused by abnormal rains and to postponement of levy of the revised assessment rates.

The following statement gives the causes of the remissions with a comparison of the previous year's figures :—

REMISSIONS.

Causes of Remissions.	1913-14.	1912-13.	Difference.
1	2	3	4
	Rs.	Rs.	Rs.
Postponement of levy of the revised assessment rates.	1,42,090	.....	1,42,090*
Floods and erosion	1,50,416	1,039	1,49,377
Deficiency of water and drought	14,544	59,202	—44,658
Locusts	11,942	919	11,023
Insects or wireworms	17	30	—13
Reduction in rate of assessment for lift rice	1,813	.....	1,813
Kalar soil	698	705	—7
Hails	282	.....	282
Frost	158	.....	158
Poverty of peasants	526	.....	526
Uncultivated portions of survey numbers ... ..	.....	164	—164
Other causes	836	646	190
Total	3,22,822	62,705	2,60,117

	Rs.
*Fuleli Canals District	1,39,273
Hyderabad Canals District	2,817
Total	1,42,090

7. (a) The remissions on Jágghir lands amounted to Rs. 6,832 compared with Rs. 3 remitted in last year and Re. 1, the average remissions in the previous three years. The majority of the remissions during the year, *viz.*, Rs. 6,804 were granted on rabi in Bakar Jágghir on the Nára Supply Channel and Rs. 28 on kharif on Thar Canal in the Eastern Nára District.

8. The difference between the 'Hakabo' or water rate assessed on Jágghir cultivation and the assessment at full rates on these areas amounted to Rs. 3,66,006 which represents the loss of canal revenue during the year owing to the low rates charged to Jágghirdárs.

9. The total charges during the year on account of maintenance and repairs amounted to Rs. 14,83,531 as shown below:—

	Rs.
Works	9,25,103
Establishment and Tools and Plant	3,51,162
Percentage charges for revenue collection	2,07,266
Total	14,83,531

The Establishment charged to 'Works' amounted to Rs. 1,73,063 and is included in the expenditure on 'Works' while the net expenditure on 'Works' (clearance and repairs) was Rs. 7,52,040. Compared with the previous year and with the average of the previous three years, the net expenditure on clearance and repairs shows an increase of Rs. 33,394 and Rs. 39,716 respectively; the charges on account of Establishment and Tools and Plant also show an increase of Rs. 14,665 and Rs. 6,507.

10. Of the total charges shown in the preceding paragraph, Rs. 13,93,464 were spent on canals and Rs. 90,067 on river embankments.

Outlay on new works. 11. The outlay of the year on new works was Rs. 3,08,015 as shown below :—

					Rs.
Major Works	...	...	{ Capital	...	1,11,006
			{ Revenue	...	1,02,673
<i>Minor Works and Navigation.</i>					
Works for which Capital and Revenue Accounts are kept	...	...	{ Capital	...	...
			{ Revenue	...	28,027
Works for which only Revenue Accounts are kept	...	...	...	...	41,507
Agricultural Works	...	...	...	...	24,799
			Total	...	<u>3,08,015</u>

Under Major Head—Capital, Rs. 96,152 represent the “ Works ” expenditure, of which Rs. 45,843 were spent on the Jamrao Canal, Rs. 45,074 on the Dad Canal and the Ren Distributary ex: Dad, Rs. 3,984 on the Nasrat and the balance Rs. 1,251 on works in the Eastern Nára District. The expenditure under Revenue Account pertained to Nasrat Canals, Eastern Nára and Jamrao Canal Districts.

12. The regular establishment charges as shown below amounted to Rs. 3,97,414 which is Rs. 13,932 and Rs. 16,212 less than the previous year and the average of the previous three years :—

					Rs.	Rs.	Percentage on outlay.
Executive	...	...	...	...		3,89,331	30.1
<i>Direction.</i>							
Superintending Engineer	...	...	...	...	75,708		
Secretariat	...	...	...	...	22,375		
						58,083	5.2
						<u>3,97,414</u>	<u>35.3</u>

13. The general financial results of all the Irrigation Works in this Division are shown in the following statement :—

STATEMENT D.

Class of Works.	Gross Revenue.	Working Expenses.	Net Revenue.	Simple Interest.	Net profit, 1913-14.	Net profit, 1912-13.	Increase.	Decrease.
I	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	19,84,609	9,32,389	10,52,220	6,44,358	4,07,802	4,18,737	...	-10,875
Minor Works for which Capital and Revenue Accounts are kept	10,69,051	4,09,396	6,58,655	.....	6,58,655	6,53,523	+5,127	...
Total	30,53,660	13,41,785	17,10,875	6,44,358	10,66,517	10,72,265	+5,127	-10,875
Works for which Only Revenue Accounts are kept	6,47,987	2,67,730	3,80,257	.....	3,80,257	4,42,769	...	-62,532
Agricultural Works	260	1,14,866	-1,14,606	.....	-1,14,606	-1,00,423	...	-14,183
1913-14	37,00,907	17,24,381	19,76,528	6,44,358	13,32,168	14,14,631		-82,463
1912-13	38,24,927	17,47,857	20,77,070	6,62,439	14,14,631	.....		.....
Increase or decrease	-1,24,020	-23,476	-1,00,544	-18,081	-82,463	.....		-82,463

13. (a) The following statement shows the rate of expenditure on Agricultural Works per acre of area irrigated after excluding the cost of the surveys for definite project :—

STATEMENT E.

Total area irrigated by all classes of works.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated (column 2 ÷ column 1).	Expenditure on Agricultural Works (excluding the cost of surveys for special projects).	Rate of expenditure on Agricultural Works per acre of area irrigated (column 4 ÷ column 1).	Total working expenses per acre of area irrigated including expenditure on Agricultural Works (column 3 + column 5).
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
1,488,906	16,09,515	1.08	1,14,866	0.08	1.16

The total working expenses including expenditure on Agricultural Works comes to Rs. 1.16 per acre of total area irrigated, compared with Rs. 1.17 per acre of area irrigated in the previous year and Rs. 1.17 per acre of the average area irrigated during the past three years.

14. There were 1,021 miles of main canals and 2,993 of branch canals—total 4,014 miles in operation during the year against the previous year's total mileage of 3,988 (main canals 1,023 miles and branch canals 2,965 miles). The total length of river embankments was the same as in last year, *viz.*, 369 miles though there was a shortage of 1 mile in the Eastern Nára District and a corresponding increase in the Nasrat Canals District. The decrease and increase in mileage is explained at the bottom of Table VI accompanying this report.

Area of principal crops, Government and Jágir.

15. The areas of the principal crops grown during the year were—

STATEMENT F.

Crops.	1913-14.			Average for three years.	1912-13.	Increase or decrease as compared with average.	Increase or decrease as compared with 1912-13.	
	Lift.	Flow.	Total.					
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Kharif	Rice ...	1,384	403,756	405,120	404,233	422,844	+87	-17,724
	Jowári ...	88,050	46,216	132,266	113,708	124,030	+10,322	+9,286
	Bajri ...	315,884	76,834	392,718	374,932	435,921	+60,989	+43,203
	Cotton ...	164,641	153,199	317,840	292,337	278,667	-19,670	-44,173
	Other crops ...	25,245	16,089	41,334	40,118	34,617	-5,501	-6,697
Total ...	593,184	701,074	1,294,258	1,225,328	1,296,079	+70,751	-1,821	
Rabi	Wheat ...	10,964	95,679	106,543	120,550	121,178	+627	+14,635
	Barley ...	206	2,589	2,795	4,829	4,770	-59	-1,975
	Oil-seeds ...	2,182	63,591	65,773	66,234	54,147	-12,087	+11,636
	Other crops ...	5,941	41,975	47,916	50,542	49,380	-1,162	-1,464
	Total ...	19,193	203,834	223,027	242,185	229,475	-12,710	-6,443
Grand Total ...	612,377	904,908	1,517,285	1,467,513	1,525,554	+58,041	-8,269	

As compared with the previous year there was a very small decrease of 1,821 acres under kharif and 6,443 acres under rabi. When compared with

the average of the previous three years the result was an increase of 68,930 acres under kharif and a decrease of 19,153 acres under rabi or a total net increase of 49,772 acres. With the exception of jowári, cotton, "other crops" kharif and oil-seeds, there was a decrease under all crops as compared with the last year, while comparison with the average of the previous three years shows an increase in all the kharif crops and a decrease in all the rabi crops.

16. The proportions of kharif and rabi of the total area irrigated in the Division were the same as last year, *viz.*, 85 and 15. Percentage of kharif and rabi. The highest kharif percentage of 91 was in the Hyderabad Canals District and the lowest 74 in the Jamrao Canal District, while the Fuleli Canals, Nasrat Canals and Eastern Nára Districts had respectively 90, 84 and 83 per cent. The Fuleli Canals and the Eastern Nára Districts had as usual the highest rice areas with 264,078 acres and 122,454 acres respectively out of the total rice cultivation of the Division of 405,120 acres. The largest areas under bájri were in the Hyderabad Canals and Fuleli Canals Districts, *viz.*, 155,889 and 83,619 acres. The largest area under jowári was, as usual, in the Nasrat Canals District with 111,279 acres. Out of the total cotton area of 322,840 acres in the Division, 124,657 acres were irrigated in the Jamrao Canal District, the Hyderabad Canals District as usual coming next with 80,552 acres.

Of the rabi crops, wheat was largely grown on the Jamrao and the Eastern Nára systems, the Jamrao accounting for 49,175 acres and the Eastern Nára for 24,427 acres out of 106,543 acres, the total for the Division. The smallest area cultivated with wheat, *viz.*, 6,367 acres, was in the Hyderabad Canals District. The largest area under oil-seeds was in the Nasrat Canals District, *viz.*, 24,571 acres, the second being the Fuleli Canals District with 17,270 acres out of the total for the Division of 65,773 acres.

Out of the total area cultivated during the year 40 per cent. was watered by lift and 60 per cent. by flow against 39 and 61 per cent. respectively during the previous year.

17. The duties and deltas of canals in this Division show the usual fluctuations of values. Duties and deltas of Canals.

The kharif duty and delta on the Jamrao were 82 and 4.2 as compared with 74 and 4.9 in the previous year. The increase in duty and decrease in delta is due to a decrease in the average discharge of the canal at its head. The rabi duty has fallen from 45 to 36 and the delta has risen from 8.0 to 9.3. The high rabi delta is due to the fact that kharif cotton is watered for a few months in the rabi season. The average discharge measured for 342 days, on which the canal was flowing, was 1,903 cusecs, and as the total area brought to maturity was 236,354 acres, each cusec irrigated 124 acres against 123 acres in the previous year.

On the Dad, the duty and delta were 43 and 5.0 against 37 and 5.3 in the previous year. The increase in duty and slight decrease in delta are due to decrease in the average discharge and increase in area cultivated.

On the Nasrat, the duty and delta were 65 and 3.4 against 56 and 3.7 in the previous year. The increase in duty and slight decrease in delta are due to same causes as on the Dad Canal.

On the Mithrao, the kharif duty and delta were 56 and 6.0 against last year's figures of 51 and 5.8. This favourable result as regards duty is due to good rain and to kharif area being about 3,000 acres more than in the previous year. The delta is only 0.2 in excess of that of the previous year. The rabi duty and delta were 22 and 13.1 against last year's figures of 20 and 9.6. The high rabi delta is due partly to shrinkage in rabi area but mostly to the canal flowing for a longer period, *viz.*, for 144 days against 96 days in the previous rabi season.

On the Hiral Canal, the kharif duty and delta of 95 and 3.5 compare favourably with the previous year's figures of 88 and 3.8. The rabi duty 19 and delta 13.6 compare unfavourably with the previous year's figures of

71 and 2.2. This is due to (1) the net area under rabi having decreased from 2,474 acres to 1,620 acres, (2) the canal flowing for a longer period, *i.e.*, 129 days against 77 in the previous year, and (3) the rabi duty being considerably less than that of last year owing to increased discharge.

On the Thar Canal, which is closed every year on 1st December to prevent waterlogging round about Umarkot and to give water for rabi cultivation lower down, the duty and delta were 61 and 6.3, which are nearly the same as the previous year's figures of 60 and 6.5.

On the Khipro Canal, the duty and delta were 34 and 7.2 against 48 and 5.1 in the last year. The fall in duty and rise in delta are due to the quantity of water being more, while the area of cultivation remained nearly the same.

On the Fuleli, the kharif duty and delta were 51 and 7.2 against the previous year's figures of 55 and 6.7. The low duty and high delta are due to decrease in area of cultivation due to heavy remissions. The rabi duty and delta were 63 and 5.7 against the last year's figures of 43 and 4.3. The increase in duty is due to less discharge utilized due to greater portion of rabi supply running to waste through the escapes, while the high delta is due to the canal running for 182 days against 92 days in the previous year.

On the Hasanali, the duty and delta were 30 and 9.5 against 32 and 7.2 in the previous year. The decrease in duty and increase in delta are due to less cultivation owing to heavy remissions and to the canal flowing for 142 days against 116 in the last year.

18. On "Major Works" the incidence of working expenses on assessed revenue and per acre irrigated were 47.34 per cent. and Rs. 1.35 per acre as compared with 47.26 per cent. and Rs. 1.36 per acre in the previous year.

Incidence of working expenses on the assessed revenue.

Under "Minor Works" the figures were 38.49 per cent. and Re. 0.79 per acre as compared with 42.18 per cent. and Re. 0.92 per acre in the last year.

19. The total value of crops grown on the irrigated area of 1,517,285 acres was estimated by the Revenue Authorities at Rs. 3,63,73,865 which gives an average of Rs. 24 per acre.

Value of each kind of crop irrigated.

20. The agricultural and other conditions of the year as affecting the areas irrigated by the principal works, the nature of seasons, the state of demand and supply are given in the following paragraph.

21. The principal irrigation works in the Division are the Eastern Nára system, the Jamrao, the Dad, the Nasrat, the Fuleli, the Hasanali, the Alibhar Kacheri, the Great Marak and the Sarfraz.

The Eastern Nára system consists of the Nára, Mithrao, Hiral, Thar, Heran and Khipro Canals; the first four are perennial, while the last two flow only during the inundation. The Jamrao has also a perennial supply. The Eastern Nára system and the Jamrao are both fed by the Nára Supply Channel. All the other canals are inundation canals getting their supply direct from the river; the Fuleli though not perennial flows nearly throughout the year and gets a rabi supply.

The inundation of 1913 was, if anything, a little worse than that of 1912, both on account of its being late and of short duration and on account of numerous fluctuations in the level of the river, and the low water level in the middle and the end of July when water is usually in most demand. What saved the season from being a total failure was the fact that fluctuations were fairly rapid and a fresh rise in the river came when crops were beginning to suffer. The abnormal rainfall was also very useful; it greatly helped the crops in northern Sind though in southern Sind being excessive, it caused damage by flooding low-lying lands. The Jamrao in no way suffered from the variable inundation.

The areas irrigated in the whole Division under different crops are given in Statement F, paragraph 15, above. There was a very small decrease of

8,269 acres as compared with the figures of last year but there was an increase of 49,772 acres when compared with the average of the previous triennium.

22. The following paragraphs give details of different works or groups of works and comparison of the agricultural and financial results of the year 1913-14 with the previous year and the average of the previous triennium, and the main causes of any important differences in results.

I.—MAJOR WORKS.

PRODUCTIVE PUBLIC WORKS.

23. A.—Eastern Nára System.

Capital.—A sum of Rs. 1,251 was spent under this head during the year.

Extensions and Improvements.—A sum of Rs. 18,022 was spent during the year on raising and strengthening the Rata Bund and the Bakhora Bakar Bund, Karia heads on Nára and Mithrao and additions to P. W. D. Inspection bungalow at the head of Thar Canal.

Maintenance and Repairs.—All the canals were maintained in good order at a cost of Rs. 1,24,315 on "Works" and "Works Establishment."

Irrigation.—The area irrigated during the year was 260,094 acres of which 216,945 were under kharif and 43,149 acres were under rabi as compared with 256,767 acres (kharif 212,490 and rabi 44,277 acres) in the last year and with 250,448 acres (kharif 194,114 and rabi 56,334 acres), the average of the previous three years.

Financial Results.—The gross revenue for the year amounted to Rs. 6,41,514 as compared with last year's revenue of Rs. 6,83,430 and Rs. 6,73,681, the average revenue of the previous triennium. Deducting working expenses Rs. 2,26,286 and share due to old irrigation Rs. 3,100, the net revenue during the year due to improvements was Rs. 4,12,128 or 6.05 per cent. on the capital outlay to end of year as compared with 6.67 per cent. in the last year and 6.11 per cent., the average of the previous three years.

General Remarks.—The remissions granted during the year amounted to Rs. 56,642 against Rs. 8,620 remitted last year and Rs. 9,136, the average remissions of the previous three years. The year's remissions were due mostly to floods caused by abnormal rains.

The principal crops grown were—

					Acres.
Rice	...	...	...	...	122,454
Cotton	...	...	...	...	52,561
Bájri	...	...	...	...	36,556
Wheat	...	...	...	...	24,427
Oil-seeds	...	...	...	...	11,970

and the total value of the whole outturn is estimated at Rs. 67,55,820 or Rs. 26 per acre.

24. B.—Jamrao Canal.

Capital.—The expenditure during the year was Rs. 45,843 which was spent on works in connection with the 17th mile project and Dalore Distributary.

Extensions and Improvements.—A sum of Rs. 9,393 was spent during the year on "Works" only mainly on constructing bungalows at 6th mile Silore and 23rd mile Puran Minors.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 1,57,824 including "Work Establishment". Regrading and clearance of minors was done where necessary. The conditions at the Head Works continued to be satisfactory and the groynes in the first seven miles were maintained and extended.

Irrigation.—The total area irrigated during the year was 239,617 acres (kharif 177,927 and rabi 61,690 acres) compared with 249,288 acres (kharif 173,110 and rabi 76,178) in the last year and with 226,117 acres (kharif 159,756 and rabi 66,361 acres, the average cultivation of previous three years.

Financial Results.—The gross revenue of the year amounted to Rs. 8,20,056 compared with Rs. 8,28,237 in the last year and Rs. 7,44,952, the average revenue of the previous triennium. Deducting working expenses Rs. 3,53,789, the net revenue during the year was Rs. 4,66,267 or 5.55 per cent. on the capital outlay to end of year as compared with 5.69 per cent. during the last year and 4.91 per cent., the average of the previous three years.

General Remarks.—The amount remitted during the year was Rs. 10,819 against Rs. 2,349 remitted last year and Rs. 8,560, the average remissions of the previous three years. The year's remissions were mainly due to floods owing to heavy rains.

The principal crops grown were—

					Acres.
Cotton	...	...	...	...	124,657
Wheat	...	...	...	...	49,175
Bájri	...	...	...	...	44,642

and the estimated value of the outturn was Rs. 94,12,828 or Rs. 39 per acre.

25.

C.—Dad Canal.

Capital.—The expenditure during the year was Rs. 45,074 and was mainly spent on the Ren Distributary works. The other works undertaken were excavating a new mouth to Guri Dad and Karia heads.

Extensions and Improvements.—A sum of Rs. 29,026 was spent on "Works" only, on the construction of the Executive Engineer's Bungalow at Nawabshah, the P. W. Inspection bungalows at Gupchani and Sarhari and on excavating new mouths to Hazariwah and Mirwah Sahro ex : Dad.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 96,995 including "Work Establishment". The year's expenditure on new head to Bhorti Dhand and clearance of the Dhand to feed the Dad is included in the above amount.

Irrigation.—The total area irrigated during the year was 109,179 acres (kharif 88,670 and rabi 20,509) against last year's cultivation of 102,011 acres (kharif 85,791 and rabi 16,220) and 106,978 acres (kharif 90,710 and rabi 16,268, the average of the previous three years.

Financial Results.—The gross revenue for the year amounted to Rs. 2,60,901 as compared with Rs. 2,37,157 in the last year and Rs. 2,54,408, the average of the previous three years. Deducting working expenses Rs. 1,72,021 and share due to old irrigation Rs. 38,699, the net revenue due to improvements was Rs. 50,181 or Rs. 1.96 per cent. on the capital outlay to end of the year as compared with 0.91 per cent. in last year and 3.22 per cent., the average of the previous triennium.

General Remarks.—A sum of Rs. 3,490 was remitted during the year against Rs. 12,392 remitted last year and Rs. 6,375, the average remissions of the previous three years.

The principal crops grown were—

					Acres.
Bájri	...	...	...	...	35,090
Jowári	...	...	...	...	26,155
Oil-seeds	...	...	...	...	12,140
Cotton	...	...	...	...	11,803

and the estimated value of the outturn was Rs. 27,15,445 or Rs. 25 per acre.

26.

D.—Nasrat Canal.

Capital.—A sum of Rs. 3,984 was spent on converting the Chanhi bridge into a regulator in mile 25, Nasrat.

Extensions and Improvements.—The expenditure during the year was Rs. 22,326 on “Works” only and was chiefly spent on the construction of a bungalow and office for the Executive Engineer at Nawabshah (the cost of which is divided between Dad and Nasrat) and on completion of the P. W. Inspection bungalows, Class I, at 68th and 72nd miles, Nasrat.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 1,12,363 including “Work Establishment”. This expenditure includes the amount spent on completion of the new month to the Lundi Dhand and clearing the feeder cut.

Irrigation.—The area irrigated during the year was 99,176 acres (kharif 84,580 and rabi 14,596) as compared with 98,000 acres (kharif 86,008 and rabi 11,992) in the previous year and with 90,626 acres (kharif 81,849 and rabi 8,777), the average of the previous three years.

Financial Results.—The gross revenue amounted to Rs. 2,62,138 as compared with Rs. 2,69,804 of the previous year and Rs. 2,57,185, the average of the previous three years. Deducting working expenses Rs. 1,80,293 and share due to old irrigation Rs. 53,046, the net revenue during the year due to improvements was Rs. 28,799 or 1.53 per cent. on the capital outlay to end of the year as compared with 1.67 per cent. in the last year and 0.94 per cent., the average of the previous three years.

General Remarks.—The remissions granted during the year amounted to Rs. 17,891 against Rs. 15,920 remitted last year and Rs. 16,616, the average remissions of the previous three years. The increase in remissions is due to damage done by locusts.

The principal crops grown were—

					Acres.
Jowári	...	...	...	...	33,029
Cotton	...	...	...	...	26,877
Báji	...	...	...	...	20,148
Oil-seeds	...	...	...	...	10,925

and the estimated value of the outturn was Rs. 19,43,546 or Rs. 20 per acre.

II.—MINOR WORKS AND NAVIGATION.

A.—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

27.

I.—Fuleli Canal.

Extensions and Improvements.—A sum of Rs. 15,397 was spent on “Works” only on completion of the Inspection bungalows at Pangrio and Serani and the Executive Engineer’s bungalow at Hyderabad.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 1,70,481 inclusive of “Work Establishment”. This expenditure includes the amount spent on completing the cut through the sand bank at the mouth of the Fuleli New commenced last year.

Irrigation.—The area irrigated during the year was 385,943 acres (kharif 345,251 and rabi 40,692) compared with 392,082 acres (kharif 350,001 and rabi 41,981) irrigated in the previous year and with 381,967 acres (kharif 330,974 and rabi 50,993), the average of the previous triennium.

Financial Results.—The gross revenue amounted to Rs. 7,59,131 against Rs. 8,23,780 realized last year and Rs. 8,26,045, the average of the previous three years. Deducting working expenses Rs. 3,13,578 and share due to old irrigation Rs. 1,28,188, the net revenue due to improvements was Rs. 3,17,363

or Rs. 15.99 per cent. on the capital outlay to end of the year compared with 16.27 per cent. in the last year and with 18.42 per cent., the average of the previous three years.

General Remarks.—The amount remitted during the year was Rs. 2,21,540 against Rs. 17,794 remitted last year and Rs. 9,840, the average remissions of the previous three years. The year's remissions were mainly due to floods and to postponement of levy of the revised assessment rates.

The principal crops grown were—

					Acres.
Rice	...	...	...	...	235,095
Bájri	...	...	...	...	73,568
Cotton	...	...	...	...	23,092
Oil-seeds	...	...	...	...	15,899

and the estimated value of the outturn was Rs. 58,27,770 or Rs. 15 per acre.

28. 2.—*Hasanali Canal.*

Extensions and Improvements.—A sum of Rs. 1,438 was spent on "Works" only.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 13,604 inclusive of "Work Establishment".

Irrigation.—The area irrigated during the year was 17,881 acres (kharif 17,608 and rabi 273) compared with 17,929 acres (kharif 17,690 and rabi 239) in the previous year and with 17,537 acres (kharif 17,211 and rabi 326), the average cultivation of the past three years.

Financial Results.—The gross revenue amounted to Rs. 42,338 compared with Rs. 48,351 realized last year and Rs. 48,354, the average realizations of the previous three years. Deducting working expenses Rs. 23,587 and share due to old irrigation Rs. 2,458, the net revenue due to improvements was Rs. 16,293 or 5.35 per cent. on the capital outlay to end of the year against 5.67 per cent. in the last year and 6.16 per cent., the average of the previous three years.

General Remarks.—The sum remitted during the year was Rs. 7,364 against Rs. 24 only remitted last year and Rs. 2,442, the average remissions of the past three years. The heavy amount remitted this year was due to floods caused by heavy rains and to postponement of levy of revised assessment rates.

The principal crop grown was—

					Acres.
Rice	...	...	...	...	14,245

and the estimated value of the outturn was Rs. 5,86,505 or Rs. 33 per acre.

29. *Alibhar Kacheri.*

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 2,729 including "Work Establishment".

Irrigation.—The area irrigated was 14,998 acres (kharif 13,739 and rabi 1,259) against last year's area of 13,291 acres (kharif 12,556 and rabi 735) and 14,068 acres (kharif 12,268 and rabi 1,800), the average area irrigated in the previous three years.

Financial Results.—The gross revenue amounted to Rs. 30,847 against Rs. 28,995 in the last year and Rs. 30,722, the average revenue of the previous three years. Deducting working expenses Rs. 6,366 and share due to old irrigation Rs. 8,239, the net revenue due to improvements was Rs. 16,242 or 67.91 per cent. on the capital outlay to end of year against last year's percentage of 47.80 and 62.42 the average percentage of the previous three years.

General Remarks.—The sum remitted during the year was Rs. 300 against Rs. 40 remitted last year and Rs. 200, the average remissions of the last three years.

The principal crop was bájri 8,853 acres and the value of the whole outturn was estimated at Rs. 4,91,984 or Rs. 33 per acre.

30.

4.—*Great Marak.*

Extensions and Improvements.—A sum of Rs. 3,884 was spent on “Works” only.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 19,743 including “Work Establishment”.

Irrigation.—The area irrigated was 72,263 acres (kharif 64,514 and rabi 7,749) against 72,333 acres (kharif 67,181 and rabi 5,152) in the last year and 69,247 acres (kharif 63,777 and rabi 5,470 acres), the average of the previous three years.

Financial Results.—The gross revenue amounted to Rs. 1,72,883 against Rs. 1,73,140 in the last year and Rs. 1,67,158 the average of the previous three years. Deducting working expenses Rs. 45,932 and share due to old irrigation Rs. 36,032, the net revenue due to improvements was Rs. 90,919 or 42.14 per cent. on the capital outlay to end of the year compared with 37.93 per cent. in the previous year and 38.29 per cent., the average of the last three years.

General Remarks.—The sum remitted during the year was Rs. 1,480 against Rs. 1,094 remitted last year and Rs. 1,431, the average remissions of the last three years.

The principal crops were—

					Acres.
Bájri	...	...	...	...	36,105
Cotton	...	...	...	...	22,592

and the value of the whole outturn was estimated at Rs. 23,23,936 or Rs. 32 per acre.

31.

Sarfraz.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 10,910 including “Work Establishment”.

Irrigation.—The area irrigated during the year was 30,726 acres (kharif 28,823 and rabi 1,903) against 33,655 acres (kharif 32,376 and rabi 1,279) in the last year and 30,799 acres (kharif 29,580 and rabi 1,219), the average of the previous three years.

Financial Results.—The gross revenue was Rs. 62,852 against last year's figure of Rs. 62,944 and Rs. 59,949, the average revenue of the previous three years. Deducting working expenses Rs. 19,933 and share due to old irrigation Rs. 10,985, the net revenue due to improvements was Rs. 31,934 or 25.61 per cent. on the capital outlay to end of the year compared with 27.41 per cent. in the previous year and 23.82 per cent. the average of the previous three years.

General Remarks.—The sum remitted during the year was Rs. 2,895 against Rs. 102 remitted last year and Rs. 50, the average remissions of the previous three years.

The principal crops were—

					Acres.
Bájri	...	...	...	...	18,670
Cotton	...	...	...	...	6,963

and the value of the whole outturn was estimated at Rs. 4,42,077 or Rs. 14 per acre.

B.—WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

32.

1. *Nasrat Canals District.*

The principal canals under this classification are the Mehrab, the Naulakhi and the Dambhro.

Extensions and Improvements.—A sum of Rs. 6,235 was spent on "Works" only chiefly on the construction of a P. W. Inspection bungalow, Class II, at Phul and a small regulator over Mirwah Duro ex: Dambhro and on completion of the P. W. Inspection bungalow, Class II, at Mehrabpur.

Maintenance and Repairs.—The expenditure was Rs. 58,853 including "Work Establishment".

Irrigation.—The total area irrigated during the year was 93,553 acres (kharif 80,675 and rabi 12,878) against last year's area of 94,421 acres (kharif 81,179 and rabi 13,242) and the three years' average area of 93,373 acres (kharif 79,384 and rabi 13,989).

Financial Results.—The total canal revenue amounted to Rs. 2,36,280 and the total revenue charges were 84,857 which represents 39.9 per cent. on revenue and Re. 0.9 per acre irrigated against last year's figures of 30.0 per cent. and Re. 0.8 per acre. The corresponding figures for the previous three years averaged 37.6 per cent. and Re. 0.9 per acre.

General Remarks.—The remissions granted during the year amounted to Rs. 907 against Rs. 1,678 remitted last year and Rs. 5,796 the average remissions of the previous three years.

The principal crops grown were—

					Acres.
Jowári	...	...	...	...	52,095
Báji	...	...	...	...	16,774
Wheat	...	...	...	...	9,506

and the estimated value of the outturn was Rs. 13,84,654 or Rs. 15 per acre.

33. 2.—Hyderabad Canals District.

The principal canals are the Ren, Gharo Mahmudo, Kari Shumali and Nasir.

Extensions and Improvements.—A sum of Rs. 23,569 was spent during the year chiefly on the Executive Engineer's bungalow and office at Hyderabad charged to Gharo Mahmudo.

Maintenance and Repairs.—All the canals were maintained in good order at a cost of Rs. 67,099 including "Work Establishment". Of this amount Rs. 7,990 were spent on widening Sangrowah and connecting it by a new cut with Gharo Mahmudo, which was cut into two parts at its 8th mile by erosion of the river. The work was in progress at the end of the year.

Irrigation.—The total area irrigated was 166,998 acres (kharif 151,732 and rabi 15,266) against 170,971 acres (kharif 155,217 and rabi 15,754) in the last year and 162,336 acres (kharif 144,645 and rabi 17,691), the average of the past three years.

Financial Results.—The total canal revenue amounted to Rs. 3,38,875 and the revenue charges were Rs. 1,12,176 being 33.1 per cent. on the revenue and Re. 0.7 per acre irrigated against last year's figures of 29.6 per cent. and Re. 0.6 per acre irrigated. The corresponding figures for the previous three years were 28.2 per cent. and Re. 0.6 per acre irrigated.

General Remarks.—The remissions amounted to Rs. 1,188 against Rs. 1,398 remitted last year and Rs. 2,039, the average remissions of the previous three years.

The principal crops were—

					Acres.
Fáji ...	...	...	...	...	92,281
Cott n...	...	...	...	...	47,747

and the value of the outturn was estimated at Rs. 37,75,984 or Rs. 23 per acre.

34.

3.—*Fuleli Canals District.*

There are only a few small canals under this head taking off direct from the Indus.

Extensions and Improvements.—A sum of Rs. 1,251 was spent on “Works” only.

Maintenance and Repairs.—The canals were maintained in good order at a cost of Rs. 18,995 inclusive of “Work Establishment”.

Irrigation.—The total area irrigated during the year was 26,857 acres (kharif 23,795 and rabi 3,063) against 24,806 acres (kharif 22,380 and rabi 2,426) in last year and 24,018 acres (kharif 21,061 and rabi 2,957), the average of the previous three years.

Financial Results.—The total canal revenue amounted to Rs. 59,918 and the revenue charges were Rs. 29,190 representing 48·5 per cent. on the revenue and Rs. 1·2 per acre irrigated against last year's figures of 35·9 per cent. on the revenue and Re. 0·9 per acre irrigated. The corresponding figures for the previous three years were 47·4 per cent. and Rs. 1·1 per acre.

General Remarks.—A sum of Rs. 5,152 was remitted during the year against Rs. 1,294 remitted last year and Rs. 2,595, the average remissions of the previous three years. The year's heavy remissions are due to floods and to postponement of levy of revised assessment rates.

The principal crop grown was rice 14,738 acres and the value of the outturn was estimated at Rs. 7,08,317 or Rs. 26 per acre.

C.—WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE
ACCOUNTS ARE KEPT.

35.

Agricultural Works.

Extensions and Improvements.—A sum of Rs. 19,955 was spent on “Works” only, mainly on raising and strengthening the Hajipur Bund mile 8 to 11/6 in the Fuleli Canals District and on constructing the Mikaro and Tirchi bunds in the Nasrat Canals District.

Maintenance and Repairs.—All the bunds were maintained in good order at a total cost of Rs. 71,192 including “Work Establishment”. Of this sum Rs. 62,769 were spent on bunds in the Fuleli Canals District, Rs. 5,617 on bunds in the Nasrat Canals District and Rs. 2,806 on the Ren bund in the Hyderabad Canals District.

General Remarks.—Water stood against all the river embankments which stood well and there was no cause for anxiety.

36. The expenditure on and receipts from gardens during the year are compared below with the three previous years' expenditure and receipts :—

Years.	Expenditure on maintenance.	Receipts.	
		As estimated.	Actuals.
	Rs.	Rs.	Rs.
1910-11	5,317	2,250	1,686
1911-12	5,372	2,250	1,515
1912-13	5,437	2,250	1,792
1913-14	4,513	1,800	2,086

There is an increase in receipts from gardens in the Division of Rs. 295 and Rs. 422 compared with the last year's receipts and the average receipts of the past three years.

37. During the year about 9,250 new young trees of various kinds other than babul were reared in canal gardens and nurseries and about 8,120 trees of various kinds were planted along canals and bunds during the year. Of these about 6,580 are alive. Besides these about 12,850 babul trees were also planted along canals and river embankments.

Plantations.

38. The Division was in charge of Major F. M. Westropp, R. E., for the whole year.

The following officers were in charge of Executive Districts:—

District.	Executive Engineer.	Months in charge.
Nasrat Canals	Mr. P. L. Bowers	7
	„ H. A. MacArthur	1
	„ D. R. H. Browne	4
Hyderabad Canals	„ D. R. Sawhney	12
Fuleli Canals	„ C. O. Lowsley	10½
	„ A. Gordon	1½
Eastern Nára	„ V. N. Parulekar	12
Jamrao	„ C. M. Lane	1/10th
	„ C. W. E. Arbuthnot	11/10ths

All these officers worked satisfactorily.

F. ST. J. GEBBIE,
Superintending Engineer, Indus Left Bank Division.

Below No. 5920, dated 22nd December 1914, from the Superintending Engineer, Indus Left Bank Division.

No. C. E.—2155 OF 1914.

PUBLIC WORKS DEPARTMENT.
*Office of the Chief Engineer in Sind,
In Camp, 30th December 1914.*

Subject.—Irrigation Revenue Report for Sind for the year 1913-14.

Forwarded, with compliments, to the Secretary to Government, Public Works Department, Bombay.

2. The report was received in this office on the 27th December 1914.

G. McC. HARRISON,
Chief Engineer in Sind.

Documents accompanying:—

One roll containing Tables by Registered post.
(Through the Commissioner in Sind.)

TABLE I.

TABLE

Area of Cultivation and Consolidated Revenue for 1913-1914 and comparison with Irrigation share of

Canals and Executive Districts.	Cultivation.			Consolidated Assessment.			
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
1	2	3	4	5	6	7	
MAJOR WORKS.							
PRODUCTIVE WORKS.							
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.							
<i>Canals in Operation.</i>							
Begári Canals District	{ Desert Canal	79,905	39,557	119,552	1,99,318	1,04,036	3,03,354
	{ Unharwáh	45,245	15,187	60,412	1,11,590	42,899	1,54,489
	{ Begári Canal	164,131	73,922	237,953	4,24,939	2,00,230	6,25,169
	Total	289,371	128,546	417,917	7,35,847	3,47,165	10,83,012
Shikárpur Canals District	{ Mahiwáh	41,569	13,843	55,412	1,16,429	47,263	1,63,697
Jámraó Canal District	{ Jámraó Canal	175,672	54,119	229,791	5,79,156	1,89,193	7,68,349
Nasrat Canals District	{ Dád Canal	83,342	16,081	99,423	2,22,614	62,299	2,74,913
	{ Nasrat Canal	84,243	11,669	95,911	2,60,100	36,991	2,97,091
	Total	167,584	27,750	195,334	4,82,714	89,290	5,72,004
Eastern Nára District	{ Nára Supply Channel	844	3,421	4,265	2,345	9,717	13,062
	{ Eastern Nára	23,279	14,011	37,290	41,470	24,411	65,881
	{ Mithrao Canal	115,055	12,069	127,124	3,63,492	35,072	3,98,564
	{ Thar Canal	52,552	3,288	55,838	1,82,756	10,332	1,93,088
	{ Khipra Canal	2,555	940	3,495	4,282	1,321	5,613
	{ Heran Canal	907	56	963	2,065	241	2,306
	{ Hiral Canal	16,856	1,317	18,173	57,238	5,416	62,654
	Total	212,048	35,100	247,148	6,53,638	85,510	7,40,148
	Total, Major Works	886,244	259,358	1,145,602	25,07,784	7,59,426	33,27,210
MINOR WORKS.							
IRRIGATION AND NAVIGATION.							
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.							
<i>Canals in Operation.</i>							
Ghár Canals District	{ Sukkur Canal	62,165	15,447	77,612	2,22,851	67,412	2,90,263
	{ Ghár Canal	210,298	27,059	237,347	9,32,415	1,70,776	11,03,121
	Total	272,463	42,506	314,969	11,55,266	2,38,188	13,93,464
Karáchi Canals District	{ Suttah Canal	14,443	1,612	16,060	23,526	2,426	31,952
Hyderabad Canals District	{ Alibhar Kacheri	12,470	611	13,081	32,243	1,927	34,170
	{ Máraik	57,433	5,718	63,201	1,67,415	17,403	1,84,818
	{ Sarfraz	25,924	1,614	27,538	64,620	3,864	67,884
	Total	95,877	7,943	103,820	2,63,678	23,194	2,86,872
Fuleli Canals District	{ Fuleli Canal	287,985	31,425	319,410	9,33,925	67,347	10,01,272
	{ Haasanaí Canal	16,972	170	17,142	53,093	420	53,513
	Total	304,957	31,595	336,552	9,87,018	67,767	10,54,785
Total, Minor Works, Capital and Revenue Accounts		687,735	83,656	771,391	24,35,438	3,31,575	27,67,063
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.							
<i>Canals in Operation.</i>							
Shikárpur Canals District	{ Canals in Rohri	26,699	12,673	39,372	1,00,341	47,073	1,47,414
	{ Sind Canal	59,531	12,699	72,230	1,90,522	49,894	2,40,416
	{ Rajih Canal	6,112	3,658	9,770	29,891	16,188	46,079
	{ Chitti Canal	4,660	5,444	10,104	22,276	23,643	45,919
	{ Garang Canal	2,724	3,637	6,361	11,603	15,680	27,282
	Total	90,726	33,111	123,837	3,54,633	1,52,457	5,07,120
Western Nára District.	{ Nára	20,241	37,439	237,780	8,33,668	1,72,041	10,10,769
	{ Manchar	3,412	14,129	17,541	10,366	35,283	45,674
	{ Aral	3,071	4,088	7,159	7,637	14,901	22,588
	{ Pritchará Canal	7,311	1,300	8,611	28,227	5,360	33,577
	{ Wákur	960	1,378	2,338	3,153	5,165	8,317
	{ Harvi	2,942	1,579	4,521	9,149	5,578	14,726
	{ New Feeder, Western Nára	876	64	940	3,647	224	3,871
	{ Dula Canals	7,536	8,890	16,426	21,596	28,461	49,657
	{ Phitta Canals	4,333	2,200	6,533	10,946	7,776	18,721
	{ Canals, north of Kotri	8,052	3,155	11,207	32,107	7,365	39,472
	Total	238,834	74,222	313,056	9,55,564	2,81,759	12,37,323
Karáchi Canals District	{ Kalri	16,222	4,411	20,633	41,041	9,926	50,967
	{ Kachor	29,339	5,660	34,999	63,623	10,142	73,765
	{ Indus Canals, Right Bank	29,679	2,054	31,733	53,314	3,117	56,431
	{ Pivari	9,148	3,791	12,939	2,07,323	10,893	2,18,216
	{ Indus Canals, Left Bank	46,718	4,716	51,434	1,03,218	6,799	1,10,042
	Total	212,434	26,542	237,976	4,05,518	40,777	5,09,295

I.

the average of the previous three years showing Increase or Decrease under Heads—Kharif, Rabi and Net Consolidated Assessment.

Remissions.			Net Consolidated assessment.	Irrigation share 90 per cent.	Average of previous three years.				Results as compared with the average of the previous three years.			
Kharif.	Rabi.	Total.			Cultivation.			Irrigation share of Net Consolidated assessment.	Cultivation.			Irrigation share of Net Consolidated assessment.
					Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
8	9	10	11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Acres.	Rs.	Acres.	Acres.	Acres.	Rs.
10,650	27,684	38,334	2,65,020	2,38,518	83,327	33,250	116,586	2,47,020	-3,332	6,298	2,066	-8,503
6,988	5,430	12,418	1,42,071	1,27,864	49,358	20,782	70,140	1,58,058	-4,113	-5,615	-9,728	-30,192
1,823	33,381	35,204	5,89,965	5,30,969	109,735	24,376	134,111	3,10,527	54,396	49,446	108,842	2,20,442
19,461	66,495	85,956	9,97,066	8,97,361	242,420	78,417	320,837	7,15,603	46,951	60,129	97,080	1,81,748
531	1,503	2,034	1,61,663	1,45,407	43,529	20,249	63,778	1,68,370	-1,960	-6,406	-8,366	-22,882
8,746	1,073	10,819	7,57,530	6,81,777	157,474	58,931	216,406	6,48,901	18,198	-4,812	13,386	37,876
2,473	1,017	3,490	2,71,423	2,44,281	81,956	11,917	93,873	2,39,661	-1,614	4,104	2,550	5,620
11,294	6,627	17,921	2,79,200	2,61,250	81,510	7,006	88,516	2,42,943	2,732	4,663	7,395	8,337
13,737	7,644	21,381	5,50,623	4,95,561	166,466	18,923	185,389	4,81,604	1,118	8,627	9,945	13,957
.....	347	347	11,715	10,544	695	4,408	5,303	12,979	-51	-987	-1,038	-2,435
1,035	483	1,523	64,358	57,922	21,308	15,363	37,171	58,175	1,971	-1,852	119	-253
20,004	348	21,012	3,77,542	3,39,788	90,001	17,313	110,913	3,40,243	15,454	-5,243	10,211	-455
18,123	15	18,137	1,74,951	1,67,456	61,021	4,583	55,604	1,72,345	1,531	-1,297	234	-14,889
84	116	200	5,403	4,863	2,655	1,126	3,781	5,274	-100	-186	-286	-411
.....	...	.....	2,906	2,075	1,555	78	1,633	4,085	-678	-22	-700	-2,020
8,083	499	3,592	54,062	48,050	13,333	4,757	18,090	53,887	3,623	-3,440	53	-5,231
47,998	1,813	49,811	6,80,337	6,21,304	190,393	48,127	238,525	6,40,908	21,650	-13,027	8,623	-25,694
91,473	78,528	1,70,001	31,57,209	28,41,490	500,287	224,647	1,024,934	28,56,485	85,957	34,711	120,663	1,85,005
1,834	1,405	3,379	2,86,884	2,58,196	65,612	7,436	73,048	2,55,769	-3,447	8,011	4,564	22,427
11,918	1,522	13,740	10,59,451	9,80,507	207,904	24,040	231,934	9,20,488	2,394	3,019	5,413	60,019
13,802	8,317	17,119	13,76,335	12,38,703	273,506	81,476	304,983	11,56,257	-1,053	11,030	9,977	32,446
8,517	63	8,580	23,372	21,035	13,700	261	13,961	24,622	748	1,351	2,099	-3,787
.....	300	300	83,870	80,483	17,061	1,403	12,464	20,282	1,409	-792	617	1,201
1,155	325	1,480	1,83,338	1,65,004	56,814	3,886	60,680	1,59,894	669	1,852	2,521	5,110
2,895	...	2,895	64,989	58,490	25,443	1,054	26,502	58,198	476	560	1,036	2,282
4,050	625	4,675	2,82,197	2,53,977	93,323	6,323	99,646	2,45,374	2,554	1,020	4,174	8,603
2,19,793	1,747	2,21,540	7,79,732	7,01,759	274,263	39,744	314,027	7,57,366	13,702	-8,319	5,383	-55,607
7,364	...	7,364	46,149	41,534	16,617	237	16,854	42,323	355	-67	288	-789
2,27,157	1,747	2,28,904	8,25,581	7,43,293	280,900	39,991	330,881	7,99,689	14,057	-8,386	5,671	-56,396
2,53,526	5,752	2,59,278	25,07,785	22,57,008	671,429	78,041	749,470	22,26,142	16,306	5,615	21,921	30,866
541	1,107	1,648	1,45,776	1,31,191	28,794	13,291	42,075	1,32,653	-2,085	-618	-2,703	-1,462
2,676	431	3,306	2,37,107	2,13,306	50,182	10,847	61,029	1,35,534	349	1,852	2,201	24,812
.....	196	196	45,483	41,395	5,458	2,707	8,255	31,007	854	881	1,515	9,383
25	40	65	45,354	41,209	5,073	3,687	8,760	35,496	-413	1,757	1,344	7,773
25	176	201	27,091	24,332	2,540	2,400	4,940	18,152	184	1,237	1,421	6,230
3,469	1,950	5,419	5,01,711	4,51,523	92,037	33,022	125,059	4,04,742	-1,311	5,089	3,778	46,791
89,039	10,350	99,389	9,11,320	8,20,189	196,564	42,492	238,856	8,33,204	3,977	-5,053	-1,076	-13,105
4,721	5,375	10,096	85,578	82,020	3,353	11,883	15,236	35,498	59	2,216	2,305	-3,478
.....	1,499	1,499	21,089	18,980	2,944	5,727	8,671	23,843	127	-1,639	-1,512	-4,863
2,091	290	2,281	31,206	28,085	7,574	859	8,433	27,838	-263	441	178	247
179	...	179	8,133	7,324	913	880	1,793	5,189	47	403	545	2,136
189	114	303	14,423	12,981	2,884	1,372	4,256	11,559	58	207	265	1,422
.....	...	.....	3,871	3,484	979	107	1,086	4,023	-103	-43	-146	-559
40	37	77	49,530	44,622	8,176	8,417	16,593	42,037	-640	78	-567	2,585
4,109	...	4,109	14,613	13,152	3,894	1,423	5,317	12,394	439	777	1,216	763
6,399	231	6,680	22,792	20,513	3,341	4,264	12,605	31,175	-289	-1,109	-1,398	-10,662
1,06,767	17,946	1,24,713	11,12,610	10,01,350	235,423	77,824	313,246	10,26,849	3,412	-3,602	-190	-25,499
22,179	120	22,299	28,568	25,711	16,859	2,312	19,201	30,944	-637	2,069	1,432	-5,233
14,630	1,025	15,655	58,110	53,299	29,427	2,639	31,466	51,519	-98	3,021	3,523	790
7,416	32	7,448	48,982	44,084	26,132	2,194	27,326	35,395	4,547	-140	4,407	8,689
65,338	633	66,021	1,82,195	1,18,975	84,940	4,460	88,600	1,80,394	6,446	4,241	10,657	-61,419
34,079	301	34,380	75,037	67,584	51,031	2,781	53,812	86,414	-4,313	1,935	-2,378	-18,880
1,64,292	2,111	1,66,403	3,42,892	3,08,603	206,439	13,816	220,305	3,84,686	5,945	11,726	17,671	-76,063

TABLE

Canals and Executive Districts.				Cultivation.			Consolidated Assessment.		
				Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
1				2	3	4	5	6	7
MINOR WORKS—continued.				Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
IRRIGATION AND NAVIGATION—continued.									
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—continued.									
Canals in operation—continued.									
Nasrat Canals District ...	{	Mehrabwah ...	...	12,323	633	12,961	33,254	1,908	35,162
		Naulakkli ...	...	40,686	5,544	52,230	1,38,237	18,506	1,56,743
		Dambro ...	...	11,151	1,170	12,340	32,644	3,758	36,442
		Other Canals ...	...	7,588	3,109	10,697	19,999	12,548	32,547
		Total ...	...	77,763	10,465	88,228	2,24,174	36,720	2,60,894
Hyderabad Canals District ...	{	Ghoro Mahmudo ...	...	63,010	5,619	68,629	1,67,790	14,478	1,82,268
		Kari Shumali ...	...	32,080	1,536	34,216	81,084	4,366	85,450
		Nasir ...	...	29,108	1,006	30,714	73,440	5,045	78,485
		Renwah ...	...	399	379	778	966	1,254	2,220
		Other Canals ...	...	4,300	635	4,935	10,353	2,427	12,685
		Total ...	...	129,407	9,605	139,302	3,33,523	27,570	3,61,098
Fuleli Canals District ...		Other Canals ...	...	20,856	1,824	22,080	65,583	4,061	69,994
		Total, Minor Works, Revenue Accounts only ...	...	770,110	160,900	930,079	24,02,355	5,43,374	29,45,629
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begari Canals District ...		Kashmore Bund ...	...	1,788	1,178	2,966	3,621	3,053	6,674
Shikarpur Canals District ...	{	Bunds in Rohri ...	...	87	9	96	222	29	251
		Sukkur-Begari Bunds ...	...	731	5,347	6,078	3,291	20,658	23,949
		Kasimpur Bund ...	...	618	723	1,341	1,681	2,755	4,433
		Total ...	...	1,436	6,079	7,515	5,194	28,442	28,636
Ghar Canals District ...		Ghar Bunds ...	...	457	464	921	2,277	2,246	4,523
Western Nara District ...	{	Nara Bund ...	...	2,038	659	2,697	8,143	2,401	10,549
		Bunds, north of Kotri ...	...	.....	.....	.....	.....	.....	.....
		Total ...	...	2,038	659	2,697	8,148	2,401	10,549
Karachi Canals District ...	{	Bunds, Right Bank ...	...	3,952	224	4,176	8,429	764	9,193
		Bunds, Left Bank ...	...	4,208	196	4,404	8,226	540	8,735
		Total ...	...	8,160	420	8,580	16,655	1,273	17,928
		Total Agricultural Works ...	...	13,879	8,600	22,679	35,895	32,415	68,310
Indus Right Bank Division ...	{	Begari Canals District ...	...	291,159	129,724	420,883	7,39,468	3,50,218	10,89,686
		Shikarpur Canals District ...	...	133,731	58,033	191,764	4,76,256	2,23,197	6,99,453
		Ghar Canals District ...	...	272,910	42,970	315,880	11,57,543	2,40,434	13,97,977
		Western Nara District ...	...	240,872	74,581	315,753	9,63,712	2,84,160	12,47,872
		Karachi Canals District ...	...	235,042	27,574	262,616	5,14,699	44,476	5,59,175
		Total ...	...	1,173,714	333,182	1,506,896	33,51,678	11,42,485	40,94,163
Indus Left Bank Division ...	{	Jamrao Canal District ...	...	175,072	54,119	229,791	5,79,156	1,59,103	7,38,319
		Eastern Nara District ...	...	212,048	35,100	247,148	6,53,633	56,510	7,40,148
		Nasrat Canals District ...	...	245,347	38,215	283,562	7,06,883	1,26,010	8,32,898
		Hyderabad Canals District ...	...	225,374	17,748	243,122	5,97,266	50,764	6,47,070
		Fuleli Canals District ...	...	325,813	39,411	365,224	10,62,856	71,828	11,24,684
		Total ...	...	1,184,254	178,601	1,362,855	35,89,744	5,24,305	41,14,049
		Total, Sind ...	...	2,357,968	511,783	2,869,751	74,41,422	16,66,790	91,08,212

NOTE :—The figures in this Statement are Assessments.

I-concluded.

Remissions.			Net Consolidated assessment.	Irrigation share 0 per cent.	Average of previous three years.				Results as compared with the average of the previous three years.			
Kharif.	Rabi.	Total.			Cultivation.			Irrigation share of Net Consolidated assessment.	Cultivation.			Irrigation share of Net consolidated assessment.
					Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
8	9	10	11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Acres.	Rs.	Acres.	Acres.	Acres.	Rs.
731	72	72	35,090	31,541	10,619	683	11,302	24,997	1,709	-50	1,659	6,584
50	13	747	1,55,496	1,40,306	46,073	5,370	52,043	1,40,507	8	174	182	-111
38	...	50	31,302	32,773	11,276	1,300	12,066	33,023	-115	-211	-326	-270
...	...	5	32,509	20,268	7,474	4,110	11,694	29,293	114	-1,001	-887	-35
822	85	907	2,69,987	2,33,988	70,047	11,653	87,600	2,27,820	1,716	-1,088	628	6,168
470	311	781	1,81,477	1,63,329	59,447	6,150	65,597	167,654	3,563	-501	3,062	5,675
840	...	840	85,104	76,593	30,313	1,304	31,007	72,171	2,307	-58	2,309	4,422
31	...	31	78,454	70,608	20,636	1,800	31,439	72,506	-538	-194	-722	-1,957
...	...	...	2,220	1,998	338	607	1,085	2,878	11	-318	-307	-878
...	30	30	12,655	11,390	4,047	1,084	6,631	10,073	-347	-1,349	-1,696	-4,683
847	341	1,188	3,59,910	3,23,019	124,431	12,225	138,656	3,21,340	5,060	-2,420	2,646	2,579
5,137	...	5,137	64,702	59,286	19,886	1,046	20,532	53,077	1,070	178	2,148	4,309
2,41,334	22,433	3,03,767	26,41,862	23,77,679	753,312	150,036	603,368	24,19,394	16,708	9,383	26,681	-41,715
118	615	733	5,041	5,347	2,451	1,944	4,395	8,695	-663	-766	-1,429	-3,248
...	...	...	251	226	...	377	377	979	87	-368	-281	-753
6	48	61	23,898	21,309	1,810	3,253	5,092	17,775	-1,079	2,065	986	3,753
...	...	...	4,436	3,902	850	746	1,305	3,797	59	-23	36	195
5	46	51	29,585	25,738	2,369	4,405	6,774	22,531	-933	1,674	741	3,185
...	30	30	4,493	4,044	411	219	630	2,520	46	245	291	1,824
213	...	213	10,336	9,302	2,361	750	3,111	10,087	-323	-91	-414	-785
...	...	...	...	...	142	205	437	1,312	-142	-295	-437	-1,312
213	...	213	10,336	9,302	2,503	1,045	3,548	11,309	-465	-386	-851	-2,097
2,507	...	2,507	6,598	5,936	4,247	398	4,645	7,461	-295	-174	-469	-1,525
435	...	435	8,300	7,470	3,996	190	4,186	7,469	212	6	218	1
3,032	...	3,032	14,896	13,406	8,243	583	8,831	14,930	-83	-168	-251	-1,524
3,218	891	4,059	64,251	57,825	15,977	8,201	24,178	60,075	-2,098	599	-1,499	-2,250
19,679	67,110	86,689	10,02,997	9,02,696	244,871	80,361	325,232	7,24,298	46,288	49,393	95,651	1,78,400
4,015	3,499	7,504	6,91,949	6,22,756	137,935	47,676	195,611	5,95,652	-4,204	387	-3,247	-27,104
13,302	3,347	17,149	13,80,828	12,42,747	273,917	31,695	305,612	11,58,777	-1,007	11,275	10,298	83,970
1,09,980	17,916	1,24,926	11,22,946	10,10,652	237,925	78,869	316,794	10,38,248	2,947	-3,988	-1,041	-27,596
1,75,811	2,174	1,73,015	3,81,120	3,43,044	228,432	14,965	243,397	4,24,416	6,610	12,909	19,519	-81,374
3,20,207	94,676	4,14,283	45,79,680	41,21,897	1,123,080	263,268	1,386,346	39,41,893	50,631	69,916	120,550	1,80,504
9,746	1,073	10,819	7,57,530	6,81,777	157,474	53,931	211,405	6,43,911	18,198	-4,812	13,386	37,676
47,988	1,813	49,811	6,90,337	6,21,304	190,393	48,127	238,525	6,46,999	21,650	-18,027	9,623	-25,694
14,559	7,729	22,288	8,10,610	7,29,549	242,513	30,476	272,989	7,09,424	2,334	7,739	10,573	28,125
4,897	966	5,863	6,42,107	5,77,896	217,754	18,543	236,302	5,66,714	7,620	-800	6,820	17,182
2,32,294	1,747	2,34,011	8,90,643	8,01,579	309,786	41,627	351,413	8,58,666	16,027	-3,208	7,819	-52,057
3,00,494	13,328	3,23,822	37,91,227	34,12,105	1,117,925	197,709	1,315,634	34,20,703	66,329	-19,108	47,221	-3,598
6,29,701	1,07,404	7,37,105	83,71,107	75,34,002	2,241,005	460,975	2,701,980	78,62,096	116,963	50,808	167,771	1,11,906

TABLE III.

Area of Cultivation and Canal Revenue Direct and Indirect for the year 1913-1914.

Canal and Executive Districts.	Cultivation.			Water share of net consolidated assessment.	Average Revenue before improvement.		Balance irrigation share due to canals.	Hakabo.	Miscellaneous.	Total Canal Revenue (columns 8, 9 and 10).	Receipt from sale of occupancy rights.	Total direct and indirect receipts (columns 11 and 12).
	Government.	Jagir.	Total.		Deduct.	Add.						
1	2	3	4	5	6	7	8	9	10	11	12	13
MAJOR WORKS.												
PRODUCTIVE WORKS.												
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.												
<i>Canals in operation.</i>												
Begari District.	Desert Canal	119,552	42,392	161,944	2,38,518	...	2,38,518	63,029	4,330	3,24,877	1,910	3,26,787
	Unharwah	60,412	38	60,450	1,27,864	...	1,27,864	302	2,024	1,30,190	2,128	1,32,318
	Begari Canal	287,953	46,202	284,155	6,30,969	33,613	4,97,356	32,714	3,574	6,53,644	8,533	6,45,111
	Total ...	417,917	88,632	506,549	8,97,351	33,613	3,68,738	1,15,045	9,928	9,88,711	13,371	10,02,082
Shikarpur Canals District ...	Mahiwah	55,412	1,661	57,073	1,45,470	1,10,487	35,000	734	3,801	39,535	3,035	42,570
Jamrao Canal District ...	Jamrao Canal	229,701	2,999	232,700	6,81,777	...	6,81,777	1,652	56,204	7,39,633	61,683	8,01,316
Nasrat Canals District ...	Dad Canal	99,423	7,085	106,508	2,44,231	33,913	1,60,363	2,616	3,307	1,64,980	7,763	1,72,743
	Nasrat Canal	95,911	503	96,414	2,51,280	72,354	1,78,426	246	1,161	1,79,532	12,043	1,91,575
	Total ...	195,334	7,583	202,922	4,95,561	1,06,267	3,38,794	2,860	4,559	3,46,212	20,705	3,66,917
Eastern Nara District.	Nara Supply Channel	4,265	5,030	9,295	10,544	...	10,544	6	4,387	14,939	183	15,124
	Eastern Nara	37,200	...	37,200	57,932	3,444	64,478	...	4,831	69,309	170	70,079
	Mithrao Canal	127,124	1,054	128,178	3,39,788	...	3,39,788	696	3,690	3,44,174	320	3,44,503
	Thar Canal	55,638	2,488	58,326	1,57,456	...	1,57,456	1,235	3,075	1,61,766	289	1,62,055
	Khipro Canal	3,495	...	3,495	4,803	...	4,803	...	131	4,934	9	5,003
	Heran Canal	863	...	863	2,075	...	2,075	...	...	2,075	180	2,255
	Hiral Canal	18,173	...	18,173	48,656	...	48,656	...	681	49,337	2,228	51,565
	Total ...	247,148	8,572	255,720	6,31,304	3,444	6,17,860	1,939	16,695	6,36,494	3,347	6,39,841
Total, Major Works ...												
1,145,603												
109,462												
1,255,064												
28,41,490												
3,04,321												
25,37,169												
1,22,230												
91,186												
27,50,585												
1,02,143												
28,52,728												
MINOR WORKS.												
IRRIGATION AND NAVIGATION.												
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.												
<i>Canals in operation.</i>												
Ghar District.	Sukkur Canal	77,812	2,842	80,654	2,58,196	84,896	1,73,300	525	2,140	1,76,064	816	1,76,880
	Ghar Canal	237,347	14,490	251,837	9,80,507	1,95,512	8,44,095	4,539	13,538	8,63,122	7,516	8,70,638
	Total ...	315,159	17,332	332,491	12,38,703	2,20,408	10,18,395	5,064	15,737	10,39,186	8,332	10,47,518
Karachi Canals District.	Sattah Canal	16,060	61	16,121	21,035	16,145	4,890	23	...	4,912	674	5,586
Hyderabad Canals District.	Alibhar Kacheri	13,031	1,691	14,722	30,483	17,606	12,878	62	233	13,913	839	14,752
	Marak	63,201	7,023	70,224	1,05,094	50,437	1,05,667	2,968	883	1,09,405	3,406	1,12,811
	Sarfruz	27,538	3,069	30,607	58,400	18,306	39,684	1,635	584	42,108	1,293	43,396
	Total ...	103,820	12,713	116,533	2,53,977	86,746	1,58,230	4,843	1,749	1,64,821	5,538	1,70,359
Fuleli Canals District.	Fuleli Canal	319,410	62,775	382,185	7,01,759	2,44,549	4,57,210	31,654	10,855	4,89,719	13,127	5,02,846
	Hasanali Canal	17,142	637	17,779	41,534	5,916	35,618	336	431	36,385	411	36,796
	Total ...	336,552	63,412	399,964	7,43,293	2,50,465	4,92,828	31,990	11,286	5,26,104	13,538	5,39,642
Total, Minor Works Capital and Revenue Accounts ...												
771,391												
93,518												
864,909												
22,57,008												
5,82,076												
10,74,332												
41,919												
28,772												
17,45,023												
28,082												
17,73,105												
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.												
<i>Canals in operation.</i>												
Shikarpur Canals District.	Canals in Rohri	39,372	10,124	49,496	1,31,191	...	1,31,191	1,310	5,176	1,37,677	4,497	1,42,174
	Sind Canal	63,230	5,610	68,840	2,13,396	...	2,13,396	1,015	1,817	2,16,228	6,229	2,22,457
	Rajhi Canal	9,770	161	9,931	41,295	...	41,295	40	608	41,843	540	42,389
	Chitti Canal	10,104	769	10,873	41,269	...	41,269	444	514	42,227	600	42,833
	Garang Canal	6,381	946	7,327	24,382	...	24,382	521	474	25,377	600	26,046
	Total ...	128,837	17,610	146,447	4,51,533	...	4,51,533	3,330	8,489	4,63,352	14,607	4,77,959
Western Nara District.	Nara	237,780	13,716	251,496	8,20,189	...	8,20,189	5,090	18,222	8,43,501	11,377	8,54,878
	New Feeder, Western Nara	17,641	...	17,641	32,020	...	32,020	...	...	32,020	...	32,020
	Wahur	7,159	...	7,159	18,980	...	18,980	...	761	19,141	103	19,244
	Marvi	8,011	...	8,011	28,085	...	28,085	...	73	28,158	889	29,047
	Pritchard Canal	2,333	...	2,333	7,324	...	7,324	...	1,392	8,716	1,011	9,727
	Dadu Canals	4,521	224	4,745	12,981	...	12,981	183	290	13,454	553	14,007
	Phitta Canal	940	1,304	2,244	3,484	...	3,484	575	1,164	5,223	503	5,726
	Manchar	16,423	...	16,423	44,622	...	44,622	...	...	44,622	...	44,622
	Aral	6,533	1,631	8,164	13,152	...	13,152	844	...	13,996	...	13,996
	Other Canals, north of Kotri	11,207	1,162	12,369	20,513	...	20,513	1,153	181	21,847	977	22,824
	Total ...	313,056	17,116	330,172	10,01,350	...	10,01,350	7,845	21,463	10,30,678	14,813	10,45,491
Nasrat Canals District.	Mehrabwah	13,061	162	13,223	31,581	...	31,581	1	60	31,642	541	32,183
	Naulakhi	52,230	2,224	54,454	1,40,398	...	1,40,398	808	278	1,41,482	716	1,42,198
	Dambro	12,347	739	13,086	32,753	...	32,753	512	419	33,684	529	34,213
	Other Canals	10,697	112	10,809	29,258	...	29,258	84	160	29,472	619	30,091
	Total ...	86,335	3,237	89,572	2,33,988	...	2,33,988	1,375	917	2,36,280	2,405	2,38,685
Hyderabad Canals District.	Gharo Mahmudo	66,959	17,167	84,126	1,63,329	...	1,63,329	6,029	2,940	1,72,298	2,441	1,74,739
	Kari Shomali	34,216	6,500	40,716	76,518	...	76,518	2,346	1,301	80,240	8,135	88,375
	Nasir	30,714	1,565	32,279	70,609	...	70,609	175	1,369	72,153	1,270	73,423
	Reawah	778	...	778	1,998	...	1,998	...	302	2,399	113	2,503
	Other Canals	4,935	8	4,943	11,390	...	11,390	...	404	11,794	75	11,869
	Total ...	189,302	25,280	214,582	3,23,819	...	3,23,819	8,550	6,406	3,38,576	7,003	3,45,579
Fuleli Canals District ...	Other Canals	23,680	2,280	25,960	58,286	...	58,286	1,262	370	59,918	734	60,652

* Includes Manchar, Aral and new Feeder.

TABLE III—concluded.

Canals and Executive Districts.	Cultivation.			Water share of ret consolidated as assessment.	Average Revenue before improvement.		Balance Irrigation share due to canals.	Hakabo.	Miscellaneous.	Total Canal Revenue columns 8, 9 and 10).	Receipts from sale of Occupancy rights.	Total direct and indirect receipts (columns 11 and 12).	
	Government.	Jagir.	Total.		Deduct.	Add.							
1	2	3	4	5	6	7	8	9	10	11	12	13	
MINOR WORKS—concluded.													
IRRIGATION AND NAVIGATION—concluded													
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.													
<i>Canals in operation—concluded.</i>													
Karachi Canals District.	Kalri	484	21,087	25,711	...	...	25,711	363	150	26,213	428	26,641
	Baghar	2,010	30,000	52,200	...	...	52,200	1,031	1,580	54,810	686	55,496
	Indus Canal's Right Bank	1,403	32,731	44,044	...	...	44,044	537	99	44,680	1,224	45,904
	Pinyari	1,882	101,000	1,18,950	...	...	1,18,975	478	3,875	1,23,328	3,837	1,27,165
	Indus Canals Left Bank	217	51,651	67,534	...	...	67,534	58	235	67,827	1,605	69,432
	Total	237,976	6,576	241,552	3,08,403	...	3,08,003	2,476	5,069	3,17,038	7,832	3,24,870	
Total Minor Works, Revenue Accounts only 930,070 71,000 1,001,149 23,77,079 23,77,079 24,838 43,624 24,46,141 47,484 24,93,625													
AGRICULTURAL WORKS.													
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.													
Begari Canals District ... Kashmir Bund	2,068	...	3,068	5,347	...	...	5,347	...	1,553	6,900	588	7,283
Bhikarpur Canals District.	Bands in Rohri	91	94	220	...	...	220	...	110	345	...	345
	Sukkur Begari Bund	6,078	2,937	9,015	21,503	...	21,503	40	2,201	23,749	1,203	24,952	
	Kasimpur Bund	1,341	...	1,341	3,093	...	3,093	...	88	4,080	...	4,080	
	Total	7,516	2,937	10,452	25,726	...	25,726	40	2,401	28,174	1,203	29,377	
Ghar Canals District ... Ghar Bunds	921	53	973	4,044	...	...	4,044	91	203	4,337	27	4,364
Western Nara District.	Nara Bunds	2,697	...	2,697	9,302	...	9,302	...	422	9,724	20	9,744	
	Bunds, North of Kotri ... ..	...	...	...	...	...	...	...	3	9	...	3
	Total	2,697	...	2,697	9,302	...	9,302	...	425	9,727	20	9,747	
Karachi Canals District.	Bunds, Right bank	4,170	340	4,522	5,933	...	5,930	...	2,516	8,452	240	8,692	
	Bunds, Left bank	4,404	119	4,523	7,470	...	7,470	...	210	7,700	152	7,852	
	Total	8,574	459	9,033	13,403	...	13,400	...	2,726	16,152	392	16,544	
Karachi Buildings District ... M. I. Depot ... ..	...	...	...	...	...	...	...	...	211	211	...	211
Nasrat Canals District.	Miscellaneous Receipts ... ..	...	...	...	...	...	...	...	10	10	...	10
Hyderabad Canals District.	Miscellaneous Receipts ... ..	...	...	...	...	...	...	...	12	12	...	12
Fuleli Canals District.	Miscellaneous Receipts ... ..	...	...	...	...	...	...	...	220	220	...	220
Total, Agricultural Works 22,679 3,484 26,163 67,825 67,825 131 7,905 65,761 2,025 67,786													
<i>Average Revenue before improvements, vide Bombay Government Resolution Nos. 389, 599 and 507, dated 28th February and 13th April 1893 and 23rd February 1904, and Nos. 169 and 1701, dated 24th June 1905, and No. 1374, dated 26th May 1906.</i>													
Begari Canals District ... Begari Canal ... ..	...	...	...	...	...	39,613	33,613	...	...	33,613	...	33,613
Bhikarpur Canals District ... Mahiwah ... ..	...	...	...	...	...	1,10,497	1,10,497	...	...	1,10,497	...	1,10,497
Ghar Canals District.	Sukkur Canal ... ..	...	...	...	...	84,808	84,808	...	...	84,808	...	84,808
	Ghar Canal ... ..	...	...	...	...	1,35,512	1,35,512	...	...	1,35,512	...	1,35,512
	Total ... ..	...	...	...	...	2,20,318	2,20,318	...	...	2,20,318	...	2,20,318
Karachi Canal District ... Sattah Canal ... ..	...	...	...	...	...	16,145	16,145	...	...	16,145	...	16,145
Eastern Nara District ... Eastern Nara ... ..	...	...	...	...	...	3,444	3,444	...	...	3,444	...	3,444
Nasrat Canals District.	Dad Canal ... ..	...	...	...	...	83,913	83,913	...	...	83,913	...	83,913
	Nasrat Canal ... ..	...	...	...	...	72,854	72,854	...	...	72,854	...	72,854
	Total ... ..	...	...	...	...	1,56,767	1,56,767	...	...	1,56,767	...	1,56,767
Hyderabad Central District.	Alibhar Kocheri ... ..	...	...	...	...	17,505	17,505	...	...	17,505	...	17,505
	Great Mamk ... ..	...	...	...	...	59,437	59,437	...	...	59,437	...	59,437
	Sarfruz ... ..	...	...	...	...	18,506	18,506	...	...	18,506	...	18,506
	Total ... ..	...	...	...	...	95,748	95,748	...	...	95,748	...	95,748
Fuleli Canals District.	Fuleli Canal ... ..	...	...	...	...	2,44,549	2,44,549	...	...	2,44,549	...	2,44,549
	Basasali Canal ... ..	...	...	...	...	5,916	5,916	...	...	5,916	...	5,916
	Total ... ..	...	...	...	...	2,50,465	2,50,465	...	...	2,50,465	...	2,50,465
Grand Total, Agricultural Works 22,679 3,484 26,163 67,825 67,825 131 7,905 65,761 2,025 67,786													
Indus Right Division.	Begari Canals District	420,813	88,632	509,445	9,02,698	33,613	33,613	9,02,693	1,15,945	11,481	10,29,224	13,754	10,42,978
	Bhikarpur Canals District	191,754	22,208	213,972	6,22,756	1,10,497	1,10,497	6,22,766	4,104	14,698	6,41,588	18,845	6,60,433
	Ghar Canals District	316,990	17,314	333,264	12,43,747	2,20,318	2,20,318	12,42,747	5,155	16,839	12,65,811	8,359	12,72,200
	Western Nara District	316,753	17,116	332,560	10,10,812	10,10,652	7,845	21,908	10,40,405	14,838	10,55,238
	Karachi Canals District	262,616	6,132	268,748	3,43,044	16,145	16,145	3,43,044	2,493	8,795	3,54,247	8,898	3,63,145
	Karachi Buildings District ... ..	...	...	...	...	...	...	...	211	211	...	...
	Total	1,608,696	151,472	1,668,368	41,21,697	3,80,573	3,80,573	41,21,697	1,34,647	72,942	43,29,486	64,689	43,94,176
Indus Left Bank Division.	Jamrao Canal District	229,191	2,989	232,790	6,81,777	6,81,777	1,032	66,204	7,30,633	61,665	8,01,318
	Eastern Nara District	247,148	8,572	255,720	6,21,304	3,444	3,444	6,21,304	1,039	16,695	6,39,038	3,847	6,43,285
	Nasrat Canals District	283,662	10,815	294,377	7,29,549	1,56,767	1,56,767	7,29,549	4,235	5,494	7,39,278	23,110	7,62,388
	Hyderabad Canals District	243,122	37,973	281,045	6,77,898	95,748	95,748	6,77,898	13,393	8,167	5,69,456	12,631	6,12,087
	Fuleli Canals District	359,393	65,682	424,924	8,01,579	2,50,465	2,50,465	8,01,579	33,252	11,865	8,46,716	14,272	8,60,988
	Total	1,362,555	126,051	1,488,606	34,12,105	5,06,424	5,06,424	34,12,105	54,471	98,446	85,66,921	1,75,045	86,89,066
Grand Total, Sind 2,869,751 277,623 3,147,274 75,34,002 8,86,997 8,86,997 75,34,002 1,80,119 1,71,397 78,91,507 1,79,734 80,74,241													

Note.—The figures in Columns 5 and 8 are assessments, those in 9, 10 and 12 are actuals.

TABLE IV.

Area of Cultivation, Assessment, Realizations and Balances outstanding in respect of Lands in Khelat and Jajhir Lands in Sind for 1913-1914.

Canals and Executive Districts.	AREA CULTIVATED DURING THE YEAR.			Un-realized balance at end of last year.	ASSESSMENT OF THE YEAR.			Remissions.	Net Total for Collection.	Actual Realizations.	Balance outstanding at end of year.		
	Kharrif.	Rabi.	Total.		Kharrif.	Rabi.	Total.						
1	2	3	4	5	6	7	8	9	10	11	12		
MAJOR WORKS.	Acres.	Acres.	Acres.	Rs.	Bs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
PRODUCTIVE WORKS.													
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.													
<i>Canals in Operation.</i>													
Begari Canals District.	Khelat Lands Foreign.	Desert Canal ...	28,923	10,209	39,132	87,220	52,882	23,610	75,992	6,155	1,07,057	81,527	25,530
		Begari Canal ...	27,269	2,006	30,172	16,800	28,404	3,580	31,984	14,325	34,049	50,006	4,043
	Total ...	53,189	13,115	69,304	63,610	80,786	27,190	1,07,976	20,480	1,41,106	1,11,533	29,573	
	Desert Canal ...	2,013	1,247	3,260	373	325	185	510	...	889	502	381	
	Unharwah ...	35	3	38	302	159	47	206	...	508	302	206	
Begari Canal ...	12,920	3,110	16,030	1,251	3,513	1,289	4,802	...	6,013	2,708	3,345		
Total ...	14,969	4,860	19,328	1,026	3,997	1,521	6,618	...	7,414	3,512	3,932		
Shikarpur Canals District—Mabihwah.	1,139	523	1,661	892	437	193	633	...	1,515	731	781		
Jamrao Canal District—Jamrao Canal.	2,277	722	3,000	1,988	1,017	517	1,534	...	3,502	1,652	1,850		
Nasrat Canals District.	Dad Canal ...	5,323	1,767	7,085	-2,758	2,378	548	3,923	...	168	2,615	-2,447	
	Nasrat Canal ...	393	105	503	178	70	69	139	...	317	245	72	
	Total ...	5,666	1,922	7,588	2,580	2,448	617	3,065	...	485	2,860	-2,375	
Eastern Nara District.	Nara Supply Channel ...	1,842	3,184	5,030	9,280	491	827	1,318	6,604	3,774	8	3,766	
	Eastern Nara ...	...	...	...	...	...	...	...	...	...	...	...
	Mithrao Canal ...	493	121	1,054	185	511	48	550	...	744	696	48	
	Thar Canal ...	2,182	303	2,488	44	1,228	85	1,313	28	1,329	1,235	94	
	Khipro Canal ...	...	...	...	...	...	...	...	...	...	...	...
	Heron Canal ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	4,957	3,615	8,672	9,440	2,230	980	3,190	6,832	5,847	1,939	3,908		
Total, Major Works ...	85,108	21,259	100,452	65,295	90,915	31,001	1,21,916	27,312	1,59,890	1,22,230	37,669		
MINOR WORKS.													
IRRIGATION AND NAVIGATION.													
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Ghar Canals District.	Sukkur Canal ...	2,061	741	2,842	652	1,036	389	1,425	...	2,407	525	1,882	
	Ghar Canal ...	13,468	1,022	14,470	...	4,154	385	4,539	...	4,539	4,539	...	
Total ...	15,529	1,833	17,312	482	5,190	774	5,964	...	6,966	5,064	4,882		
Karachi Canals District—Sattah Canal.	49	12	61	-49	22	4	26	...	-23	22	-45		
Hyderabad Canals District.	Alibhar Kacheri ...	1,209	423	1,691	-99	617	35	652	...	573	62	501	
	Mirak ...	7,031	942	7,973	300	2,381	256	2,617	...	2,907	2,959	41	
	Sarfinaz ...	2,590	160	3,059	5,345	1,249	67	1,395	...	6,651	1,935	4,816	
Total ...	11,189	1,514	12,713	5,607	4,246	341	4,594	...	10,201	4,843	5,358		
Fuleli Canals District.	Fuleli Canal ...	57,071	4,804	62,775	3,187	26,972	2,162	29,134	...	32,321	31,654	667	
	Hasanali Canal ...	633	1	637	...	298	1	299	...	299	336	-37	
Total ...	58,607	4,805	63,412	3,187	27,270	2,163	30,433	...	32,620	31,990	630		
Total, Minor Works, Capital and Revenue Accounts ...	85,384	6,134	93,518	9,727	38,728	3,290	40,017	...	49,744	41,919	7,825		
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Shikarpur Canals District.	Canals in Rohri ...	7,019	2,973	9,992	1,393	697	341	1,298	...	2,541	1,217	1,324	
	Sind Canal ...	4,002	1,603	5,610	1,519	1,885	800	2,685	...	4,234	1,015	3,219	
	Rajib Canal ...	10	151	161	11	5	92	97	...	108	40	68	
	Chitti Canal ...	269	540	789	652	162	246	408	...	1,060	444	616	
	Garang Canal ...	404	482	946	655	245	293	478	...	1,134	521	613	
Total ...	11,764	5,714	17,478	4,771	3,194	1,712	4,906	...	9,077	3,237	5,840		
Bawalpur Lands Foreign—Canals in Rohri.	Nara ...	87	45	132	43	33	17	50	...	93	93	...	
	New Feeder Western ...	6,725	3,930	12,715	5,983	4,715	1,622	6,397	65	12,255	5,090	7,165	
Western Nara District.	Nara ...	...	...	...	...	...	...	...	...	...	...	...
	Wahur ...	...	...	...	...	...	...	...	...	...	...	...
	Marvi ...	...	...	...	...	...	...	...	...	...	...	...
	Pritchard Canal ...	...	...	...	-23	...	...	...	...	-23	...	-23
	Dadu Canals ...	224	...	224	149	84	...	84	...	233	163	69	
	Phitta Canal ...	676	718	1,394	553	350	317	697	...	1,250	575	675	
	Manchar ...	...	...	...	-11	...	...	...	...	-11	...	-11
Aral ...	682	949	1,631	424	306	409	714	...	1,133	644	294		
Other Canals North of Kotri.	...	746	406	1,152	964	350	33	383	...	1,347	1,163	194	
	Virah Bund ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	11,053	6,063	17,116	8,039	5,805	2,410	8,215	65	16,189	7,845	8,344		

TABLE IV--concluded.

Canals and Executive Districts.	AREA CULTIVATED DURING THE YEAR.			Un-realized balance at end of last year.	ASSESSMENT OF THE YEAR.			Remissions.	Net Total for Collection.	Actual Realizations.	Balance outstanding at end of year.	
	Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	
MINOR WORKS--concluded.												
IRRIGATION AND NAVIGATION--concluded.												
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT--concluded.												
<i>Canals in Operation--concluded.</i>												
Karachi Canals District.	Kalri	308	63	444	132	181	38	210	...	351	352	-1
	Baghar	1,737	273	2,010	867	709	85	794	...	1,461	1,031	430
	Indus Canal Right Bank	996	7	1,003	211	276	3	279	...	490	537	-47
	Pinyari	1,576	307	1,883	290	719	115	834	...	1,124	468	666
	Indus Canals Left Bank	205	13	317	180	134	4	138	...	208	88	210
	Total ...	4,009	607	5,876	1,400	2,019	245	2,264	...	3,724	2,476	1,248
Nasrat Canals District.	Mehrabwah	141	11	152	2	45	3	48	...	50	1	49
	Naulakhi	2,020	204	2,224	903	817	50	867	...	1,770	808	962
	Danabro	630	59	730	690	310	37	347	...	1,237	512	725
	Other Canals	71	41	113	-147	61	1	62	...	-85	54	-139
	Total ...	2,912	315	3,227	1,648	1,233	91	1,324	...	2,972	1,875	1,597
Hyderabad Canals District.	Gharo Mahmud	14,873	2,295	17,167	-1,845	5,657	294	5,921	...	4,076	6,029	-1,953
	Kari Shumali	0,184	316	6,000	2,253	2,469	151	2,620	...	4,878	2,346	2,532
	Nasir	1,354	201	1,585	2,862	570	10	580	...	3,442	175	3,267
	Ronwah ... ..	...	...	...	...	...	...	...	...	...	...	...
	Other Canals	8	...	8	41	...	...	...	...	41	...	41
	Total ...	22,448	2,812	25,260	3,510	8,696	425	9,121	...	12,437	8,550	3,887
Fuleli Canals District.	Other Canals	2,233	47	2,280	...	1,016	22	1,037	...	1,037	1,262	-225
Total, Minor Works, Revenue Accounts only												
		55,406	15,863	71,069	18,677	21,995	4,922	26,917	65	45,529	24,838	20,691
AGRICULTURAL WORKS.												
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.												
Begari Canals--Kashmir District.	...	...	...	...	...	...	...	...	...	...	...	...
Shikarpur Canals District.	Bunds in Rohri ... ..	...	...	...	...	...	...	...	...	...	...	...
	Sukkur Begari Bund	1,030	1,895	2,927	63	...	...	...	...	53	40	13
	Kasimpur Bund ... ..	...	...	...	...	...	...	...	...	...	...	...
	Total ...	1,030	1,895	2,927	63	...	...	...	...	53	40	13
Ghar Canals District.	Ghar Bunds	52	...	52	137	21	...	21	...	158	91	67
Western Nara Canals District.	Nara Bunds ... ..	...	...	...	...	...	...	...	...	...	...	...
	Bunds North of Kotri ... ..	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	...	...	...	...	...	...	...	...	...	...
Karachi Canals District.	Bunds, Right Bank	331	15	346	-70	143	6	149	...	79	...	79
	Bunds, Left Bank	148	1	149	-233	36	...	36	...	-197	...	-197
	Total ...	479	16	495	-303	179	6	185	...	-118	...	-118
Total, Agricultural Works												
		1,570	1,914	3,484	-113	200	6	206	...	93	191	-38
<i>Foreign Lands.</i>												
Begari Canals District	...	50,189	13,115	69,304	53,610	80,736	27,180	1,07,976	20,480	1,41,106	1,11,533	29,573
Ehikarpur Canals do ...	...	87	45	132	43	33	17	50	...	83	93	...
	Total ...	50,276	13,160	69,436	53,653	80,819	27,207	1,08,026	20,480	1,41,190	1,11,626	29,573
<i>Jaghir Lands.</i>												
Indus Right Bank Division.	Begari Canals District	14,068	4,360	19,328	1,923	3,997	1,521	5,518	...	7,444	3,512	3,932
	Shikarpur Canals District	13,942	8,134	22,076	5,106	3,631	1,908	5,539	...	10,645	4,011	6,634
	Ghar Canals District ...	16,551	1,403	17,384	1,119	5,211	774	5,065	...	7,104	5,155	1,949
	Western Nara District ...	11,053	8,063	17,116	8,039	5,805	2,410	8,215	65	16,189	7,815	8,374
	Karachi Canals District ...	5,437	695	6,132	1,108	2,220	255	2,475	...	3,533	2,493	1,040
	Total ...	60,051	21,055	82,036	17,298	20,864	6,868	27,732	65	44,965	23,031	21,934
	Total ...	117,267	34,215	1,51,472	70,931	101,683	34,075	1,35,758	20,545	1,86,164	1,34,647	51,517
Indus Left Bank Division.	Jamrao Canal District	2,277	723	2,999	1,968	1,017	517	1,534	...	3,502	1,852	1,650
	Eastern Nara District	4,957	3,615	8,572	9,489	2,230	960	3,190	6,832	5,847	1,939	3,908
	Nasrat Canals District	6,578	2,237	10,815	-932	3,081	708	4,359	...	3,457	4,235	-778
	Hyderabad Canals Central	33,647	4,326	37,973	8,923	12,942	773	13,715	...	22,638	13,393	9,245
	Fuleli Canals District	60,840	4,552	65,392	3,187	28,285	2,185	30,470	...	33,657	33,252	405
	Total ...	110,299	15,752	126,051	22,635	48,155	5,143	53,298	6,832	60,101	54,471	14,630
TOTAL, BIND												
		227,556	49,907	277,523	93,586	1,49,893	39,218	1,89,066	27,377	2,55,265	1,89,113	66,147

* The difference as compared with last year is due to adjustments made by the Civil Department.

TABLE V.

Revenue Expenditure on New Works, Maintenance and Repairs, and Establishment Charges in the Public Works and Revenue Departments on Irrigation Works in Sind for the year 1913-1914.

Canals and Executive Districts.	REVENUE EXPENDITURE.										Revenue Collection Charges.	Total columns 6 to 13.	TOTAL EXPENDITURE.				
	Improvements.				Maintenance and Repairs.								Works.	Establishment.		Indirect Charges.	Total.
	Works.	Regular Establishment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Establishment.	Tools and Plant.	Total.				Public Works Department, including Tools and Plant.	Civil Department Collection Charges.		
					Works.	Works Establishment.	Total.										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
MAJOR WORKS. PRODUCTIVE WORKS. IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.																	
<i>Canals in Operation.</i>																	
Begri Canals District.																	
Desert Canal ...	11,891	1,523	169	13,569	78,763	24,124	1,03,887	13,299	1,863	1,19,549	16,713	1,35,261	1,15,778	16,540	16,712	2,991	1,51,921
Unharwah ...	749	98	15	862	32,681	8,303	40,934	5,270	831	47,038	7,767	54,802	41,683	6,212	7,767	751	56,413
Begri Canal ...	61,561	7,777	472	69,810	1,47,516	25,251	1,72,767	21,828	1,826	1,95,910	85,334	2,31,253	2,34,328	31,401	35,334	4,604	3,05,637
Total ...	74,201	9,398	656	84,255	2,59,960	58,678	3,17,588	40,995	3,520	3,61,503	59,813	4,21,316	3,91,750	63,953	59,813	7,746	5,13,301
Mahliwah ...	3,036	425	54	4,415	30,589	11,894	51,464	5,550	707	57,721	11,355	69,076	55,400	6,736	11,355	837	74,328
Jamroo Canal ...	9,393	7,020	248	17,661	1,04,758	53,066	1,57,824	1,33,080	(a) 4,171-788	2,94,267	23,201	3,16,468	1,87,217	1,44,631	22,201	19,740	3,53,789
Nasrat Canals District.																	
Dad Canal ...	29,020	5,031	82	34,133	81,744	15,251	96,995	13,817	106	1,10,918	17,991	1,28,909	1,26,021	24,586	17,991	3,423	1,72,021
Nasrat Canal ...	22,316	4,331	23	26,670	99,329	13,034	1,12,363	21,745	115	1,34,223	15,751	1,49,974	1,34,839	26,204	15,751	3,649	1,59,243
Total ...	51,336	9,362	105	61,803	1,81,073	28,285	2,09,358	40,662	221	2,50,141	33,742	2,83,883	2,60,710	50,790	33,742	7,072	3,52,314
Eastern Nara District.																	
Nara Supply Channel.	63	9	...	62	9,077	2,183	10,260	1,075	...	11,935	677	12,612	10,313	1,684	677	236	12,910
Eastern Nara ...	4,838	1,444	17	6,297	19,207	7,656	26,863	8,021	94	34,978	3,620	38,598	31,699	9,576	3,620	1,325	46,220
Mithrao Canal ...	11,993	3,307	39	14,739	44,748	11,848	56,596	16,430	(a) -733	72,465	20,348	92,633	67,969	19,235	20,348	2,763	1,10,335
Thar Canal ...	2,040	611	7	2,658	14,846	5,182	20,028	5,998	70	26,096	9,619	35,715	22,068	6,686	9,619	925	39,299
Khipro Canal ...	...	...	...	...	1,782	...	1,782	631	6	2,329	303	2,621	1,792	637	292	75	2,096
Harna Canal ...	...	...	...	...	...	...	...	...	...	...	124	124	...	...	...	...	124
Hiral Canal ...	...	...	...	...	5,311	3,565	8,776	2,583	31	11,400	2,940	14,340	8,776	2,624	2,940	863	14,763
Total ...	18,823	5,371	63	23,756	93,881	30,434	1,24,315	35,249	-340	1,60,223	37,620	1,96,843	1,42,637	40,342	37,620	3,687	2,26,267
Total Major Works	1,57,204	23,068	1,063	1,91,330	6,78,203	1,62,347	8,60,649	2,64,835	7,401	11,22,875	1,64,731	12,87,606	10,17,753	2,96,452	1,64,731	41,082	15,20,018
MINOR WORKS. IRRIGATION AND NAVIGATION.																	
<i>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</i>																	
<i>Canals in Operation.</i>																	
Chief Canals District.																	
Sukkar Canal ...	...	...	...	...	84,102	8,875	42,977	12,229	81	55,287	18,989	74,256	42,977	12,310	18,989	1,713	75,969
Ghar Canal ...	2,873	813	5	3,691	1,03,088	16,347	1,19,436	33,793	226	1,53,463	64,654	2,18,107	1,23,308	34,536	64,654	5,187	2,26,963
Total ...	2,873	813	5	3,691	1,97,190	25,222	1,62,412	46,021	307	2,08,740	83,623	2,92,363	1,65,285	47,146	83,623	6,900	3,02,954
Karachi Canals District.																	
Sattah Canal ...	...	...	...	...	6,557	2,032	8,589	443	50	9,082	1,429	10,511	8,589	493	1,429	62	10,573
Hydrabad Canals District.																	
Allbhar Kacheri ...	...	...	...	...	2,729	2,729	996	18	3,743	2,433	6,226	2,729	1,014	2,433	140	636	
Marak ...	3,884	1,892	25	5,301	18,091	3,653	19,743	7,073	125	26,941	12,504	39,445	23,627	8,615	12,504	1,383	45,932
Sarfrax ...	...	...	...	...	9,129	1,781	10,910	3,982	70	14,962	4,413	19,375	10,910	4,052	4,413	558	19,923
Total ...	3,884	1,392	25	5,301	25,220	8,163	33,382	12,051	213	45,646	19,400	65,046	37,266	13,681	19,400	1,894	72,237
Fuleli Canals District.																	
Fuleli Canal ...	15,397	5,155	232	20,784	1,47,784	23,747	1,70,481	57,084	2,564	2,30,129	53,913	2,84,042	1,85,879	65,035	58,013	3,762	2,13,578
Hasanal Canal ...	1,438	492	22	1,942	10,844	2,780	13,604	4,564	205	18,373	2,568	20,939	16,012	5,273	2,566	706	23,547
Total ...	16,835	5,637	254	23,726	1,58,628	26,527	1,84,085	61,648	2,769	2,48,502	56,479	3,04,931	2,00,920	70,308	60,479	4,468	2,37,165
Total Minor Works Capital and Revenue Accounts are kept	23,592	7,843	284	31,718	3,27,545	60,923	3,68,468	1,20,163	3,339	5,11,970	1,60,931	6,72,901	4,12,060	1,31,638	1,60,931	18,304	7,22,922
<i>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</i>																	
<i>Canals in Operation.</i>																	
Shikarpur Canals District.																	
Canals in Bohri ...	1,533	189	-5	1,717	44,530	4,901	49,431	6,107	-163	55,375	8,123	63,498	50,934	6,123	8,123	...	65,21
Sind Canal ...	15,528	1,918	-52	17,394	54,797	7,742	62,539	7,726	-207	70,068	12,959	83,017	78,067	9,285	12,959	...	1,00,47
Rajib Canal ...	4,385	540	-14	4,894	1,374	493	1,813	224	-6	2,030	2,500	4,530	6,130	744	2,500	...	9,42
Chitti Canal ...	793	98	-3	893	3,054	728	3,782	467	-13	4,236	2,504	6,740	4,575	549	2,504	...	7,67
Garang Canal ...	4,200	530	-14	4,806	1,370	914	2,284	282	-8	2,558	1,516	4,074	6,574	790	1,516	...	8,88
Gidu Dhund ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	26,612	3,275	-88	29,999	1,05,125	14,723	1,19,848	14,906	-397	1,34,227	27,602	1,61,829	1,46,360	17,599	27,602	...	1,91,53

(a) Suspense Account.

TABLE V—continued.

Canals and Executive Districts.	REVENUE EXPENDITURE.											Revenue Collection Charges.	Total, columns 6 to 12.	TOTAL EXPENDITURE.				
	Improvements.				Maintenance and Repairs.									Works.	Establishment.		Indirect Charges.	Total.
	Works.	Regular Estab-lishment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Estab-lishment.	Tools and Plant.	Total.	Public Works Department, including Tools and Plant.				Civil Department Collection Charges.			
					Works.	Works Estab-lishment.	Total.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
MINOR WORKS—contd.																		
IRRIGATION AND NAVIGATION—concluded.																		
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.																		
Canals in Operation—concluded.																		
Western Nara District.	Nara ...	12,075	3,150	51	14,276	1,02,359	29,356	1,31,715	23,451	554	1,55,720	*53,295	2,09,015	1,48,790	26,206	53,295	...	2,23,291
	New Feeder Western ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Marvi ...	...	...	...	...	3,799	289	4,088	728	17	4,833	781	5,614	4,058	745	781	...	5,614
	Wahur ...	...	...	...	...	3,269	200	3,468	440	10	2,918	439	3,357	2,468	450	439	...	3,357
	Pritchard ...	731	130	3	864	89,121	3,380	92,481	16,467	389	1,09,337	1,709	1,11,046	93,212	16,950	1,709	...	1,11,010
	Dadu Canals ...	8,695	1,849	36	10,244	5,637	1,349	6,970	1,241	29	8,240	2,683	10,923	15,635	2,849	2,683	...	21,172
	Phitta Canal ...	...	...	...	...	1,309	735	2,044	364	9	2,417	885	3,302	2,044	373	885	...	3,302
	Manchar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Aral ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canals north of Kotri ...	488	87	2	577	6,663	2,040	8,703	1,549	87	10,299	1,314	11,609	9,191	1,675	1,314	...	12,180	
Virah Bund ...	...	...	...	...	500	...	500	89	2	591	...	591	500	...	...	...	591	
Total ...	21,959	3,010	92	25,961	2,11,640	37,329	2,48,969	44,329	1,047	3,94,345	61,111	5,55,466	2,70,928	49,376	61,111	...	3,51,417	
Nasrat Canals District.	Mohrabwah ...	447	87	3	537	14,168	1,068	15,163	2,950	109	18,223	1,009	20,131	15,610	3,149	1,909	...	20,663
	Naulakhi ...	4,148	807	30	4,985	22,297	3,976	26,268	6,110	189	31,567	8,488	40,053	30,416	6,138	8,498	...	45,038
	Dambro ...	1,640	319	12	1,971	6,261	2,575	8,836	1,710	63	10,618	2,092	12,620	10,476	2,113	2,092	...	14,591
	Other Canals ...	...	...	...	...	7,511	1,075	8,586	1,670	62	10,318	1,735	12,053	8,586	1,732	1,735	...	12,053
Total ...	6,235	1,213	45	7,493	50,169	8,684	58,853	11,440	423	70,725	14,132	84,857	65,068	18,130	14,132	...	92,950	
Hyderabad Canals District.	Ghāro Mahmud ...	21,000	7,664	136	28,800	31,412	4,255	35,667	13,017	230	48,914	10,382	59,296	56,667	21,047	10,382	...	88,090
	Karl Shauāl ...	1,394	505	9	1,908	8,108	3,058	11,165	4,075	72	15,312	4,653	19,965	12,549	4,661	4,652	...	21,862
	Nasir ...	376	320	6	1,202	14,794	2,169	16,963	6,191	110	23,264	4,329	27,593	17,839	6,627	4,329	...	28,795
	Renwah ...	309	113	2	424	1,454	...	1,454	531	0	1,984	129	2,114	1,703	655	129	...	2,538
	Other Canals ...	...	...	...	...	1,850	...	1,850	676	12	2,537	673	3,209	1,850	687	672	...	3,209
Total ...	23,569	8,002	153	32,324	57,619	9,480	67,099	24,450	433	92,021	20,155	1,12,176	90,638	33,677	20,155	...	1,44,506	
Fuleli Canals Dist.	Other Canals ...	1,251	420	19	1,690	16,540	2,455	18,995	6,373	288	25,653	3,537	29,190	20,240	7,097	3,537	...	30,880
	Total ...	15,394	792	69	16,275	12,542	4,664	17,106	530	99	19,085	1,600	20,685	32,500	1,880	1,600	...	35,969
Karachi Canals District.	Baghar Indus Canal Right Bank ...	46,724	2,363	265	49,342	18,910	9,713	28,523	1,468	168	30,157	3,110	33,267	74,247	4,262	3,110	...	81,609
	Pinyari Indus Canal Left Bank ...	19,453	1,001	119	20,567	64,639	18,279	82,978	4,269	481	87,728	6,939	94,637	1,02,431	5,834	6,939	...	1,15,204
	Other Canals ...	1,147	59	7	1,213	30,369	4,238	34,607	1,781	201	36,589	4,166	40,755	35,754	2,048	4,166	...	41,063
	Total ...	61,718	4,205	474	66,397	1,39,710	38,808	1,78,518	9,185	1,030	1,89,739	18,467	2,07,206	2,60,236	14,900	18,467	...	2,93,603
Total, Minor Works, Revenue Accounts only, 1,61,244 21,825 605 1,83,664 5,80,869 1,11,470 6,92,282 1,10,630 2,628 8,06,740 1,45,004 9,50,744 8,53,526 1,36,778 1,45,004 ... 11,84,308																		
AGRICULTURAL WORKS.																		
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																		
Begari Canals District.	Kashmir Bund ...	203	42	...	245	1,45,597	39,204	1,84,791	38,387	120	2,23,298	320	2,23,624	1,84,994	88,540	320	...	2,23,869
	Sukkur-Begari Bund ...	2,852	594	24	3,470	96,677	10,775	1,07,352	23,002	918	1,31,272	1,292	1,32,564	1,10,204	24,538	1,292	...	1,36,034
	Kāsimpur Bund ...	...	...	...	...	1,146	558	1,704	200	8	2,212	240	2,458	2,004	208	240	...	2,456
Bunds Rohri District.	Other Canals ...	601	125	5	731	3,270	2,027	5,297	686	27	6,010	14	6,024	5,893	843	14	...	6,755
	Total ...	3,453	719	29	4,201	1,07,993	13,660	1,21,653	23,888	953	1,39,494	1,552	1,41,046	1,18,106	25,559	1,552	...	1,45,247
Ghar Canals District.	Other Canals ...	...	...	...	...	2,136	4,559	6,695	1,439	94	8,228	248	8,476	6,695	1,633	248	...	8,476
	Total ...	59,773	12,502	68	72,341	11,343	8,101	19,444	4,067	22	23,533	558	24,091	79,217	10,657	558	...	96,432
Western Nara District.	Other Canals ...	7,146	1,495	8	8,644	3,185	534	8,419	84	4	8,464	...	8,464	11,165	2,348	...	13,513	
	Total ...	66,919	13,097	74	80,990	14,525	8,935	23,463	4,095	26	23,997	558	28,055	90,382	19,005	558	...	1,09,945

* Revenue collection charges for Western Nara includes charges for new feeder, Manchar and Aral also.

† Difference of Rs. 1,330 against Indus Canals Left Bank has been charged to Pinyari as reported by Executive Engineer, Karachi Canals.

‡ The Executive Engineer, Shikarpur Canals, reports that the difference is due to the expenditure of Rs. 3,050 on the following works having been accounted for erroneously by the Deputy Accountant General under Sukkur Begari Bund :—

Kasimpore Bund ... Rs. 1,049
 Bunds Rohri District ... " 2,001
 ... " 3,050

§ Difference of Rs. 112 between Nara and Bunds, north of Kotri, has been charged to the latter Bund as correctly shown by the Executive Engineer, Western Nara.

TABLE V—concluded.

Canals and Executive Districts.	REVENUE EXPENDITURE.											Revenue Collection Charges.	Total, columns 6 to 12.	TOTAL EXPENDITURE.				
	Improvements.				Maintenance and Repairs.									Works.	Establishment.			Total.
	Works.	Regular Establishment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Establishment.	Tools and Plant.	Total.	Public Works Department, including Tools and Plant.				Civil Department Collection Charges.	Indirect Charges.		
					Works.	Works Establishment.	Total.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
AGRICULTURAL WORKS—concluded.																		
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT—concluded.																		
Karachi Canals District	Bunds, Right Bank ...	84,644	18,167	403	1,03,217	30,384	6,176	43,659	9,120	202	51,690	343	52,235	1,27,207	27,600	343	...	1,55,440
Karachi Canals District	Bunds, Left Bank ...	1,03,022	21,983	484	1,24,369	65,739	16,077	80,806	17,383	394	98,593	427	99,020	1,82,825	40,034	427	...	2,23,339
	Total ...	1,60,670	40,047	880	2,27,606	1,03,113	21,252	1,23,335	26,492	596	1,50,413	770	1,51,183	3,10,032	67,634	770	...	3,78,779
Korachi Buildings District	River District Mathematical Instrument Depot ...	34,803	70,417	9,931	1,84,243	26,400	...	26,400	22,169	2,773	51,432	...	51,432	1,21,365	1,14,892	...	...	2,36,677
	... ..	...	946	5,733	6,660	...	...	...	...	...	...	...	...	...	6,660	...	...	6,660
	Total ...	34,803	80,363	16,630	1,90,904	26,400	...	26,400	22,169	2,773	51,432	...	51,432	1,21,365	1,21,961	...	...	2,42,346
Nasrat Canals District	Mikar Bund ...	1,434	371	6	1,811	306	376	632	228	3	1,113	...	1,113	3,316	608	...	...	2,924
Nasrat Canals District	Tirchi Bund ...	6,650	1,710	25	8,304	78	170	257	68	1	324	...	324	6,907	1,811	...	...	8,718
Nasrat Canals District	Maintaining Bench Marks and Centre Mark line of proposed Rohri-Hyderabad Canal ...	...	...	...	...	508	...	508	131	2	639	...	639	500	183	...	...	639
Nasrat Canals District	Canal Chouki at Doulatpur ...	...	...	...	...	613	...	613	169	2	774	...	774	613	161	...	...	774
Nasrat Canals District	Bund between Nasrat and Naulakhi ...	...	...	...	...	19	361	370	96	2	409	...	409	370	96	...	...	493
Nasrat Canals District	Naulakhi-Bhorthi Bund ...	...	...	...	...	1,540	1,417	2,957	704	11	3,732	...	3,732	2,957	775	...	...	3,732
Nasrat Canals District	Indus Survey Marks ...	...	...	...	...	32	...	32	8	...	40	...	40	32	8	...	...	40
	Total ...	8,084	2,090	31	10,215	8,004	2,623	5,617	1,452	21	7,070	...	7,070	13,701	3,694	...	...	17,205
Nasrat Canals District	Renwah Bund ...	412	88	25	525	2,506	...	2,506	600	173	3,579	...	3,579	3,218	896	...	...	4,104
Nasrat Canals District	Indus Survey Marks ...	70	4	1	75	...	...	...	...	...	...	...	...	16	5	...	...	21
	Total ...	423	92	26	600	2,806	...	2,806	600	173	3,579	...	3,579	3,234	901	...	...	4,125
Fuleli Canals District	Hajipur Bund ...	11,443	2,435	170	14,048	37,430	...	37,430	7,964	559	45,950	...	45,950	48,574	11,135	...	...	60,993
Fuleli Canals District	River Bunds ...	...	...	...	...	20,872	4,467	25,339	5,301	373	31,166	...	31,166	25,339	5,767	...	...	31,166
	Total ...	11,443	2,435	170	14,048	58,302	4,467	62,769	13,365	932	77,056	...	77,056	4,212	16,892	...	...	91,104
	Total, Agricultural Works ...	3,72,095	1,39,778	16,872	5,22,745	4,56,043	94,600	5,57,049	1,32,660	8,020	6,91,329	3,454	6,94,733	9,22,744	2,97,330	3,454	...	12,23,525
Indus Right Bank Division	Begari Canals District, Shikarpur Canals District ...	74,404	9,437	643	84,484	4,04,497	67,862	5,02,379	78,732	3,640	5,84,801	60,139	6,44,940	5,72,783	92,502	80,139	7,746	7,37,170
Indus Right Bank Division	Ghar Canals District ...	33,001	4,419	5	38,315	2,45,698	40,287	2,85,965	44,244	1,263	3,31,472	40,509	3,71,981	3,19,398	49,921	49,500	837	4,11,133
Indus Right Bank Division	Western Nara District ...	2,974	813	5	3,681	1,39,321	29,791	1,69,107	47,460	401	2,18,968	53,271	3,00,839	1,71,989	48,678	53,271	6,930	3,11,480
Indus Right Bank Division	Karachi Canals District ...	66,878	17,937	166	1,08,951	2,23,168	46,264	2,72,432	49,237	1,073	3,22,742	61,669	3,84,411	3,61,310	68,363	61,669	...	4,91,362
Indus Right Bank Division	Korachi Buildings District ...	2,68,938	44,215	1,360	3,13,993	2,48,330	62,092	3,10,472	36,090	1,672	3,45,234	20,666	3,66,900	5,78,960	83,367	20,666	62	6,82,055
Indus Right Bank Division	Korachi Buildings District ...	34,803	80,363	16,636	1,90,914	26,400	...	26,400	22,169	2,773	51,432	...	51,432	1,21,365	1,20,961	...	...	2,42,346
	Total ...	5,63,360	1,57,184	17,825	7,33,348	12,90,539	2,73,286	15,66,845	2,77,932	10,822	15,55,640	2,66,854	21,22,603	21,80,184	4,69,813	2,66,854	15,545	28,76,360
Indus Left Bank Division	Jamrao Canal District ...	9,303	7,020	248	17,581	1,04,758	63,066	1,57,824	1,39,030	3,383	2,04,237	22,201	3,16,438	1,67,217	1,44,631	22,201	19,749	3,53,789
Indus Left Bank Division	Eastern Nara District ...	13,322	5,371	63	23,766	93,881	80,434	1,24,315	36,218	340	1,69,223	37,620	1,96,843	1,42,637	40,842	37,620	5,667	2,23,236
Indus Left Bank Division	Canals District ...	65,671	13,255	131	79,057	2,34,336	89,492	2,73,628	53,483	1,920	3,29,226	47,874	3,77,094	3,39,499	68,778	47,874	7,072	4,83,223
Indus Left Bank Division	Hyderabad Canals District ...	27,681	10,986	244	38,371	85,645	17,642	1,03,297	37,140	1,901	1,42,328	39,855	1,81,863	1,81,168	49,331	39,855	1,884	2,21,938
Indus Left Bank Division	Fuleli Canals District ...	29,529	8,492	443	38,464	2,33,420	82,429	2,65,849	81,375	3,983	3,51,207	60,016	4,11,223	2,95,878	94,203	60,016	9,438	4,59,145
	Total ...	1,50,706	45,124	1,089	1,97,009	7,62,040	1,73,053	9,26,103	3,40,306	10,856	12,76,265	2,07,266	14,83,531	10,76,890	3,97,376	2,07,266	43,811	17,24,381
	GRAND TOTAL ...	7,14,135	2,02,808	13,911	9,35,357	20,42,509	4,49,349	24,91,948	6,18,236	21,678	31,31,914	4,74,120	38,06,034	32,06,083	8,61,189	4,74,120	59,335	48,00,777

(a, Suspense Account.)

TABLE VI.

Cultivation, Canal Revenue and Expenditure for 1913-1914, as contrasted with three previous years.

Canals and Executive Districts.	AVERAGE OF THREE PREVIOUS YEARS.			Per-centage of Expendi-ture on Re-venue.	Cost of Main-tenance per acre.	1913-1914.			Per-centage of Expendi-ture on Re-venue.	Cost of Main-tenance per acre.	LENGTH IN MILES.					
	Cultiva-tion.	Canal Revenue.	Mainte-nance and Revenue Collection.			Cultiva-tion.	Canal Revenue.	Mainte-nance and Revenue Collection.			Canals.			Bunds	Total.	
											Main Canals.	Branches.	Total.			
-1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
MAJOR WORKS.																
PRODUCTIVE WORKS.																
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.																
<i>Canals in Operation.</i>																
Begári District.	Desert Canal ...	166,534	3,38,039	1,34,472	38.8	0.8	161,944	3,24,377	1,35,261	41.6	0.8	74	258	332	...	532
	Unharwah ...	70,194	1,59,866	43,642	27.3	0.6	60,450	1,31,100	54,902	42.1	0.9	31	86	120	...	120
	Begári Canal ...	156,439	3,29,616	1,80,839	54.9	1.2	284,155	5,07,257	2,31,253	40.8	0.8	80	163	243	...	243
	Total ...	393,167	8,27,511	3,58,953	43.4	0.9	506,549	10,32,324	4,21,316	41.2	0.8	188	512	700	...	700
Shikárpur Canals District—Mahiwáb.		65,771	1,72,371	63,855	37.0	1.0	57,073	1,60,032	69,076	46.0	1.2	29	204	293	...	293
Jámráo Canal District—Jámráo Canal		219,725	6,72,333	2,37,175	42.7	1.3	232,760	7,39,433	3,16,488	42.8	1.3	117	620	637	...	637
Nasrat District.	Dád Canal ...	104,445	2,46,514	1,27,553	51.7	1.2	108,509	2,50,268	1,33,909	53.5	1.2	37	293	380	...	380
	Nasrat Canal ...	89,023	2,44,579	1,67,441	68.4	1.9	96,414	2,52,686	1,49,974	59.3	1.5	80	109	279	...	279
	Total ...	193,468	4,91,093	2,94,994	60.1	1.5	202,922	5,02,979	2,83,883	56.4	1.4	167	402	659	...	659
Eastern District.	Nára Supply Channel ...	7,963	16,351	13,811	34.5	1.7	9,205	14,939	12,612	34.4	1.3	12	...	12	...	12
	Eastern Nára ...	37,173	69,181	35,937	52.0	1.0	37,290	62,763	38,598	61.5	1.0	...	...	...	...	170
	Mithrao Canal ...	117,756	3,44,512	93,869	27.2	0.8	128,178	3,44,174	92,893	28.9	0.7	92	40	141	...	93
	Thar Canal ...	58,536	1,75,902	34,236	19.5	0.6	58,326	1,61,766	35,716	22.1	0.6	21	48	72	...	32
	Khípra Canal ...	3,782	5,445	5,406	99.3	1.4	3,495	4,994	2,621	52.0	0.7	15	...	15	...	15
	Heran Canal ...	1,683	4,259	864	20.3	0.5	963	2,075	124	5.9	0.1	3	...	3	...	3
	Híral Canal ...	18,090	54,767	12,961	23.7	0.7	18,173	49,237	14,340	29.1	0.8	19	22	41	...	41
	Total ...	244,963	6,70,417	1,97,114	29.4	0.8	255,720	6,39,938	1,90,843	30.7	0.8	105	119	244	304	563
	Total, Major Works ...	1,117,994	28,34,225	12,02,091	42.4	1.1	1,255,054	30,54,406	12,37,606	42.1	1.0	660	1,907	2,573	304	2,877
MINOR WORKS.																
IRRIGATION AND NAVIGATION.																
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																
<i>Canals in Operation.</i>																
Ghár District.	Sukkur Canal ...	75,780	2,40,311	68,352	28.7	0.9	80,454	2,60,370	74,256	28.5	0.9	74	56	130	...	130
	Ghár Canal ...	249,972	9,35,776	2,26,120	24.4	0.9	251,337	9,98,634	2,18,107	21.8	0.9	66	230	296	...	296
	Total ...	325,752	11,76,087	2,96,972	25.3	0.9	332,291	12,59,504	2,92,363	23.2	0.9	140	286	426	...	426
Karáchi Canals District—Sattah Canal		14,065	24,946	23,522	94.3	1.7	16,121	21,057	10,511	49.9	0.7	29	6	35	...	35
Hyderabad District.	Alibhar Kacheri ...	13,707	29,979	6,515	21.7	0.5	14,772	30,318	6,226	20.1	0.4	26	82	63	...	68
	Great Márah ...	68,217	1,32,835	44,594	27.2	0.7	71,164	1,08,942	39,445	23.4	0.5	28	145	171	...	171
	Sarfráz ...	30,721	58,059	17,275	20.3	0.6	30,597	60,109	19,375	31.8	0.6	79	83	112	...	112
	Total ...	112,645	2,51,873	68,384	27.1	0.6	116,533	2,60,569	65,046	25.0	0.6	181	210	341	...	341
Fúeli District.	Fúeli Canal ...	377,212	6,01,109	2,96,946	37.1	0.8	392,185	7,44,268	2,34,042	38.1	0.7	100	915	1,015	...	1,015
	Hasanali Canal ...	17,440	43,176	22,935	53.1	1.3	17,779	42,301	20,939	49.5	1.2	35	60	95	...	95
	Total ...	394,661	6,44,285	3,19,881	37.9	0.8	399,964	7,86,569	3,04,981	40.4	0.8	135	975	1,110	...	1,110
	Total, Minor Works, Capital and Revenue Accounts ...	547,123	22,97,191	7,08,759	30.9	0.8	664,909	23,27,690	6,73,801	28.9	0.8	435	1,477	1,912	...	1,912
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																
<i>Canals in Operation.</i>																
Shikárpur Canals District.	Canals in Rohri ...	52,360	1,37,602	39,865	29.0	0.8	49,496	1,37,377	63,493	46.1	1.3	108	11	119	...	119
	Sind Canal ...	65,932	1,96,066	55,548	43.6	1.3	68,540	2,16,228	83,017	38.4	1.2	50	70	120	...	120
	Rajib Canal ...	8,401	32,239	7,098	23.0	0.8	8,931	41,843	4,530	10.8	0.5	10	...	10	...	10
	Chitti Canal ...	9,486	34,151	9,614	23.2	1.0	10,873	42,227	6,740	18.0	0.6	8	...	8	...	8
	Garang Canal ...	5,864	18,787	7,405	39.4	1.3	7,307	25,377	4,074	16.1	0.6	8	...	8	...	8
	Gudu Dhand ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	142,043	4,18,845	1,40,531	35.7	1.1	146,447	4,69,352	1,61,859	34.9	1.1	184	81	265	...	265
Western Nára District.	Nára New Feeder, West-ern Nára ...	1,086	4,023	241	6.0	0.2	17,541	32,020	...	...	...	8	...	8	...	8
	Marvi ...	4,256	11,619	3,743	32.2	0.9	8,611	19,141	5,614	29.3	0.7	16	...	16	...	16
	Wahur ...	1,794	5,276	2,155	40.8	1.2	7,159	28,158	3,367	11.9	0.5	6	...	6	...	6
	Pritchard ...	8,434	29,318	41,765	142.5	4.1	2,338	8,716	1,11,046	1,274.0	47.5	27	23	50	...	50
	Dáru Canals ...	17,242	42,470	9,588	23.5	0.6	4,745	13,454	10,928	61.2	2.3	19	14	33	...	33
	Phitta ...	6,102	14,036	2,274	16.2	0.4	2,334	5,223	3,02	63.2	1.4	41	...	41	...	41
	Manchar ...	15,238	35,501	2,205	6.2	0.1	16,428	44,623	...	...	...	...	...	...	...	...
	Aral ...	10,369	24,583	1,417	5.8	0.1	8,164	13,966	...	...	...	20	13	33	...	33
	Canals, north of Kotri ...	14,107	31,966	11,862	37.1	0.8	12,359	21,847	11,603	53.1	0.9	61	...	61	...	61
	Virah Bund ...	...	...	838	...	...	...	...	591	...	...	...	...	...	...	...
	Total ...	339,913	10,55,276	2,43,524	33.1	0.7	330,172	10,30,678	3,55,456	34.5	1.1	353	327	680	...	680
Nasrat District.	Mehrabwah ...	11,453	25,102	24,503	97.6	2.1	13,113	31,642	29,131	63.6	1.5	29	16	45	...	45
	Nauláki ...	54,332	1,41,843	34,303	24.2	0.6	54,454	1,41,432	40,053	28.3	0.7	27	93	123	...	123
	Dambro ...	13,648	33,963	13,495	34.6	0.9	18,079	53,684	12,620	37.7	0.9	31	35	66	...	66
	Other Canals ...	12,011	29,643	12,668	43.4	1.0	10,909	29,472	12,063	40.9	1.1	23	9	32	...	32
	Total ...	91,444	2,30,556	81,784	37.6	0.9	91,465	2,36,290	84,857	35.9	0.9	110	156	266	...	266
Hyderabad District.	Gháro Mahmúdo ...	80,758	1,67,128	44,888	26.7	0.6	85,828	1,72,268	69,296	34.4	0.7	30	194	224	...	224
	Kari Shumali ...	37,599	75,613	19,468	25.9	0.6	40,716	80,210	19,964	24.8	0.5	37	123	160	...	166
	Nasir ...	33,091	73,691	31,164	23.7	0.6	32,269	72,153	27,593	38.2	0.9	25	102	127	...	127
	Benwah ...	1,094	3,175	3,171	59.9	2.9	778	2,310	2,174	68.4	2.7	24	4	28	...	28
	Other Canals ...	6,934	10,343	3,023	15.5	0.5	4,943	11,794	3,209	27.2	0.6	17	11	28	...	28
	Total ...	159,164	3,35,925	91,669	28.2	0.6	164,562	3,38,876	1,12,176	33.1	0.7	133	440	573	...	573
Fúeli District.	Other Canals ...	22,783	55,004	26,092	47.4	1.1	24,960	59,918	29,190	48.5	1.2	63	81	144	...	144

TABLE VI—concluded.

Canals and Executive Districts.	AVERAGE OF THREE PREVIOUS YEARS.					1913-1914.					LENGTH IN MILES.				
	Cultiva-tion.	Canal Revenue.	Main-te-nance and Revenue Collec-tion.	Per-cent-age of Expend-iture on Re-venue.	Cost of Main-tenance per acre.	Cultiva-tion.	Canal Revenue.	Main-te-nance and Revenue Collec-tion.	Per-cent-age of Expend-iture on Re-venue.	Cost of Main-tenance per acre.	Canals.			Bunds	Total.
											Main Canals.	Branches.	Total.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MINOR WORKS—concluded.	Acres.	Rs.	Rs.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Miles.	Miles.	Miles.	Miles.	Miles.
IRRIGATION AND NAVIGATION—concluded.															
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.															
<i>Canals in Operation—concluded.</i>															
Karachi Canals District.															
Kalri	20,045	33,014	24,013	72.7	1.2	21,007	26,213	19,635	75.1	0.9	26	66	92	...	92
Baghar	34,270	53,976	39,189	73.6	1.1	36,999	54,910	33,267	60.6	0.9	88	87	155	...	155
Indus Canals Right Bank	23,265	37,16	19,449	52.9	0.7	32,736	44,660	18,362	42.2	0.6	103	8	111	...	111
Pinyari	91,093	1,85,439	1,00,303	54.1	0.1	101,069	1,23,398	94,637	76.7	0.9	81	251	332	...	332
Indus Canals Left Bank	53,953	86,910	47,523	54.7	0.9	51,651	67,857	40,755	60.1	0.3	167	71	238	...	238
Total	227,626	3,90,504	2,30,487	58.1	1.0	243,552	3,17,038	2,07,206	65.4	0.9	465	463	928	...	928
Total, Minor Works, Revenue Accounts only	972,973	24,92,164	8,26,057	33.1	0.9	1,001,148	24,46,141	9,50,744	38.9	0.9	1,308	1,548	2,856	...	2,856
AGRICULTURAL WORKS.															
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.															
Begari Canals District.															
Kashmor Bund	4,395	10,731	2,24,388	2,091.0	51.1	2,966	6,900	2,28,624	3,211.9	75.4	...	...	...	91	91
Shikarpur Canals District.															
Sukkur-Begari Bund	7,903	21,477	2,41,914	1,126.4	30.6	96	345	1,32,584	38,424.4	1,380.9	...	...	...	60	60
Kasimpur Bunds	1,305	4,157	3,747	90.1	2.9	9,015	23,749	2,458	10.3	0.3	...	...	...	11	11
Division	377	1,389	8,013	876.9	21.3	1,341	4,080	6,024	147.6	4.5	...	...	...	52	52
Total	9,585	27,023	2,53,674	938.9	26.5	10,462	28,174	1,41,046	500.6	13.5	...	...	...	123	123
Ghar Canal District.															
Ghar Bunds	778	2,822	9,423	333.9	12.1	973	...	8,476	195.4	8.7	...	...	...	46	46
Western Nara District.															
Nara Bunds	3,111	10,993	26,769	234.4	8.3	2,697	9,724	24,001	247.7	8.9	...	...	...	91	91
Bunds, north of Kotri	437	1,372	5,554	404.8	12.7	...	3	4,364	1,02,193.3	...	...	...	...	6	6
Total	3,548	12,365	31,323	263.3	8.9	2,697	9,727	28,365	297.7	1.7	...	...	...	97	97
Karachi Canals District.															
Bunds, Right Bank	4,834	7,613	91,072	1,196.3	18.8	4,522	8,452	52,233	618.0	11.6	...	...	...	56	56
Bunds, Left Bank	4,305	7,899	1,14,198	1,445.7	26.5	4,553	7,700	98,950	1,235.1	21.7	...	...	...	95	95
Total	9,139	15,512	2,05,268	1,323.3	22.5	9,075	16,152	1,51,188	936.0	1.7	...	...	...	151	151
Karachi Buildings District.															
River District ... ..	...	...	...	...	...	...	...	51,432	...	...	...	...	...	...	...
M., L. Depot ... ..	...	372	...	...	...	...	...	211	...	...	...	...	...	...	...
Total ... ..	...	372	...	...	...	...	...	211	51,432	...	...	...	...	...	...
Jamrao Canal District.															
Eastern Nara District ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nasrat Canals District ... ..	...	129	10,272	7,962.8	...	...	...	19	8,384	43,968.4	...	...	...	13	13
Hyderabad Canals District ... ..	...	27	2,237	8,245.2	...	...	...	12	4,661	38,811.7	...	...	...	8	8
Fuleli Canals District ... ..	...	160	57,789	88,628.0	...	...	...	229	77,052	33,647.1	...	...	...	44	44
Total ... ..	...	306	70,298	22,973.2	...	...	...	260	90,067	34,641.1	...	...	...	65	65
Total, Agricultural Works	27,445	69,131	7,94,374	1,149.1	29.3	26,163	65,761	6,94,783	1,056.5	26.6	...	...	...	573	573
Indus Right Bank Division.															
Begari Canals District	397,662	8,38,242	5,83,341	69.8	1.5	509,515	10,29,224	6,44,910	62.7	1.3	188	512	700	91	791
Shikarpur Canals District	217,399	6,18,793	4,67,050	75.5	2.1	213,972	6,41,558	3,71,981	58.0	1.7	213	345	558	123	631
Ghar Canals District	326,530	11,78,909	3,06,395	28.0	0.9	332,264	12,63,841	8,00,539	23.8	0.9	140	296	426	46	472
Karachi Canals District	333,461	10,67,641	2,74,847	25.7	0.8	332,869	10,40,405	3,84,411	36.9	1.2	353	327	680	97	777
Western Nara District	250,830	4,36,962	4,59,277	105.1	1.8	2,68,748	3,54,247	3,68,900	104.1	1.4	494	469	963	151	1,114
Karachi Buildings District ... ..	...	372	...	...	...	...	...	211	51,432	24,375.4	...	...	...	...	...
Total	1,625,782	41,40,919	20,90,910	50.5	1.4	1,658,368	4,329,466	21,22,503	49.0	1.3	1,328	1,939	3,327	508	3,335
Indus Left Bank Division.															
Jamrao Canal District	219,725	6,72,333	2,87,175	42.7	1.3	232,790	7,39,633	3,16,488	42.8	1.3	117	520	637	...	637
Eastern Nara District	244,863	6,70,417	1,97,114	29.4	0.8	255,720	6,39,938	1,96,843	30.7	0.8	165	119	284	1304	583
Nasrat Canals District	284,912	7,21,778	3,90,030	54.0	1.4	294,377	7,39,278	3,77,094	51.0	1.3	277	1648	925	113	969
Hyderabad Canals District	271,809	5,87,825	1,62,290	27.6	0.6	281,085	5,99,456	1,81,883	39.3	0.6	324	1650	914	3	922
Fuleli Canals District	417,444	8,99,439	4,03,762	44.9	0.9	424,924	8,46,716	4,11,323	48.6	1.0	198	1,056	1,254	44	1,298
Total	1,438,863	35,51,792	14,40,371	40.5	1.0	1,438,906	35,65,021	14,83,531	41.6	1.0	1,021	2,993	4,014	369	4,383
Grand Total, Sind	2,964,635	76,92,711	35,31,281	45.9	1.2	3,147,474	78,94,507	36,06,034	45.7	1.1	2,409	4,932	7,341	877	8,218

* Jamrao Canal District.—Increase of 28 miles in Branches over the previous year is due to the distributaries in connection with the 17th mile Project Jamrao Canal completed during the year.
 † Eastern Nara District.—Decrease of 1 mile in main Canals, one mile in Branches and one mile in length of Bunds as compared with the previous year is due to rechainage of the Mithrao Canal and its branches and of the protective bunds in connection with the Thar Canal.
 ‡ Nasrat Canals District.—Increase of 2 miles in Branches over the previous year is due to (1) increase in Dad Canal of 4 miles of Guri Dad excavated during the year, (2) decrease of 6 miles in Nasrat Canal due to 350 miles of Distributary 19 converted into a Karia and made over to Khatedar and 2.21 miles difference found in rechainage of Distributaries and (3) Increase of 4 miles found in rechainage of Mehrao and Nanlakh branches.
 § Increase of 1 mile in Bunds over the previous year is due to construction of Tirahi Bund during the year.
 ¶ Hyderabad Canals District.—Decrease of 1 mile in Main Canals as compared with last year is due to 1 mile of Gharo Mahmudo eroded away by the river and the decrease of one mile in Branches is due to rechainage and to certain branch Canals formerly shown under Kari Shumali and Nasir being now included in Gharo Mahmudo and Saffraz.

TABLE VII.

Statement showing Receipts from Sale of Occupancy Rights in Waste or other Lands not belonging to Major and Minor Works, but directly benefited by their construction for the year 1913-1914.

Canals and Executive Districts.	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.
	Táluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MAJOR WORKS.									
PRODUCTIVE WORKS.									
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.									
<i>Canals in Operation.</i>									
Begári Canals District.			Acres.	Rs.	Rs.	Rs.	Rl.	Rs.	
			850	445	1,994	199	*1,615	65	
			795	451	826	83	*669	26	
			353	72	427	43	*346	14	
Total ...			1,998	968	3,247	325	2,630	105	
Shikárpur District.			463	1,042	884	88	796	32	
Jámrao Canal District.			24,117	27,311	2,08,312	20,831	187,481	7,499	
Nasrat Canals District.			2,219	3,078	5,370	537	4,833	193	
			6,949	8,307	16,328	1,633	14,695	588	
Total ...			8,568	11,885	21,698	2,170	19,528	* 781	
Eastern Nára District.			308	528	642	64	578	23	
			1,879	1,627	...	...	...	...
			68	109	162	16	146	6	
			569	727	...	...	...	...
Total ...			2,824	2,991	804	80	724	29	
Total, Major Works ...			37,970	44,197	2,34,945	23,494	2,11,159	8,446	
MINOR WORKS.									
IRRIGATION AND NAVIGATION.									
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation.</i>									
Ghár Canals District.			10	9	576	58	518	21	
			33	31	197	20	177	7	
Total ...			43	40	773	78	695	28	
Karachi Canals District.			298	603	1,028	103	925	37	
Hyderabad District.			3	...	3	...	
			18	2	16	1	
			6	1	5	...	
Total	27	3	24	1	
Fuleli Canals District.			2,846	6,517	12,019	1,202	10,817	433	
			
Total ...			2,846	6,517	12,019	1,202	10,817	433	
Total, Minor Works, Capital and Revenue Accounts ...			3,137	7,160	13,847	1,386	12,461	499	

Too numerous to mention.

Too numerous to mention.

* The figures have been shown by Accountant General. The difference will be taken by him in the Next Year's statement.

TABLE VII—continued.

Canals and Executive Districts.	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.
	Taluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MINOR WORKS—continued.									
IRRIGATION AND NAVIGATION—concluded.									
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation—concluded.</i>									
Shikárpur District.	Canals	Canals in Rohri	476	227	800	81	719	29	
		Sind Canal...	47	...	225	22	208	8	
		Rajib do. ...	12	...	98	10	88	3	
		Chitti do. ...	29	40	574	57	517	21	
		Garang do. ...	58	...	84	8	76	3	
	Total ...		622	267	1,781	178	1,608	64	
Western Nára District.		Nára	1	...	9	1	8	1	
		Manchar	...	...	...	...	...	...
		Aral	...	...	...	...	...	...
		New Feeder, Western	...	...	...	...	...	...
		Nára	...	...	...	...	...	...
		Pritchard Canal	...	...	...	...	...	...
		Wahur	...	...	...	...	...	...
		Márvi	...	...	...	...	...	...
		Dádu Canals	...	...	...	...	...	...
		Phitta Canals	...	...	...	...	...	...
		Canals north of Kotri	43	52	107	11	96	4	
	Total ...		44	52	116	12	104	5	
Nasrat District.	Canals	Mehrabwah	...	...	...	...	...	...
		Naulákhi	...	...	...	...	...	...
		Dámbró	...	...	...	...	...	...
		Other Canals...	...	...	...	...	...	...
	Total ...		...	...	...	...	...	...
Hyderabad Canals District.		Gháro Mahmúdo	371	311	1,324	138	1,191	48	
		Kari Shumáli	624	979	2,204	220	1,984	79	
		Nazir	...	...	...	...	...	...
		Renwah	...	...	...	...	...	...
		Other Canals...	...	...	...	...	...	...
	Total ...		995	1,290	3,528	358	3,175	127	
Fuleli District.	Canals	Other Canals	...	...	...	...	...	...
Karachi Canals District.		Kalri	212	458	505	51	454	18	
		Bághar	250	486	584	58	526	21	
		Indus Canals Right Bank	399	780	788	78	710	29	
		Finyári	987	2,148	3,077	308	2,769	111	
		Indus Canals Left Bank	505	950	1,415	141	1,274	51	
	Total ...		2,353	4,822	6,869	636	5,733	230	
Total, Minor Works, Revenue Accounts only ...			4,014	6,431	11,794	1,179	10,615	426	

Too numerous to mention.

Too numerous to mention.

TABLE VII—concluded.

Canals and Executive Districts.	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.
	Taluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MINOR WORKS—concluded.									
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begari Canals District.	Kashmor Bund	...	22	7	11	1	10	...	
Shikarpur Canals District.	Bunds in Rohri	...	...	...	...	...	...	...
	Sukkur-Begari Bund	...	2	...	7	1	6	...	
	Kasimpur Bund	...	...	...	...	...	...	...
	Total	...	2	...	7	1	6	...	
Ghar Canals District.	Ghar Bunds	...	1	...	6	1	5	...	
Western Nara District.	Nara Bunds	...	...	...	...	...	...	...
	Bunds, north of Kotri.	...	...	...	...	...	...	...
	Total	...	...	...	...	...	...	...
Karachi Canals District.	Bunds, Right Bank	...	196	406	513	51	462	18	
	Bunds, Left Bank	...	27	...	46	5	41	2	
	Total	...	223	406	559	56	503	20	
	Total, Agricultural Works	...	248	413	588	59	524	20	
Sindus Right Bank Division.	Begari Canals District	...	2,020	975	3,258	326	2,640	105	
	Shikarpur Canals District	...	1,087	1,809	2,672	267	2,405	96	
	Ghar Canals District	...	44	40	779	79	700	28	
	Western Nara District	...	44	52	116	12	104	5	
	Karachi Canals District	...	2,874	5,831	7,956	795	7,161	287	
	Total	...	6,069	8,207	14,781	1,479	13,010	521	
Sindus Left Bank Division.	Jamrao Canal District	...	24,117	27,311	2,08,312	20,831	1,87,481	7,499	
	Eastern Nara District	...	2,824	2,991	804	80	724	29	
	Nasrat Canals District	...	8,568	11,885	21,698	2,170	19,528	781	
	Hyderabad Canals District	...	995	1,290	3,555	356	3,199	128	
	Fuleli Canals District	...	2,846	6,517	12,019	1,202	10,817	433	
	Total	...	39,350	49,994	2,46,388	24,639	2,21,749	8,870	
	Grand Total, Sind	...	45,419	58,201	2,61,769	26,118	2,34,759	9,391	

Too numerous to mention.

Too numerous to mention.

T A B L E V I I I .

TABLE

Abstract of Crop Return of Government,

Canals, Districts and Crops.	1909-1910.			1910-1911.			1911-1912.			
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Begári Canals...	<i>Kharij.</i>									
	Rice... ..	...	81,307	81,307	...	87,436	87,436	...	46,762	46,762
	Jowári ...	36,706	132,406	169,112	34,552	131,058	165,610	22,482	68,275	90,757
	Báji ...	10,732	52,141	62,923	12,620	45,665	58,185	12,346	39,198	51,544
	Cotton ...	2	248	250	1	387	388	22	201	223
	Other Crops .	1,319	36,764	38,083	2,015	43,696	45,711	2,367	41,090	43,457
	Total ...	48,809	302,866	351,675	49,088	308,242	357,330	37,217	195,526	232,743
	<i>Rabi.</i>									
	Wheat ...	340	33,506	33,846	4	46,713	46,717	40	33,519	33,559
	Barley ...	3	109	112	1	124	125	...	39	39
Oil-seeds ...	3,829	31,717	35,546	295	24,829	25,124	72	19,327	19,399	
Other Crops .	51	129,369	129,420	27	119,448	119,475	7	52,779	52,786	
Total ...	4,223	199,701	203,924	327	191,114	191,441	119	105,664	105,783	
Grand Total.	53,032	502,567	555,599	49,415	499,356	548,771	37,336	301,190	238,526	
Shikárpur Canals.	<i>Kharij.</i>									
	Rice... ..	...	58,354	58,354	...	57,802	57,802	...	40,390	40,390
	Jowári ...	37,863	35,990	73,853	43,302	53,768	97,070	35,310	37,549	72,859
	Báji ...	6,469	6,913	13,382	4,289	5,822	10,111	4,812	3,709	8,521
	Cotton ...	32	320	402	103	313	416	160	446	606
	Other Crops .	873	7,608	8,481	1,809	8,590	10,399	1,455	8,291	9,746
	Total ...	45,287	109,185	154,472	49,503	126,295	175,798	41,737	90,385	132,122
	<i>Rabi.</i>									
	Wheat ...	843	67,390	68,233	791	78,635	79,426	636	28,646	29,282
	Barley ...	12	355	367	5	385	390	...	248	248
Oil-seeds ...	35	12,325	12,360	18	11,362	11,380	21	2,938	3,009	
Other Crops..	66	35,745	35,811	43	43,934	43,977	16	17,542	17,558	
Total ...	956	115,815	116,771	857	134,316	135,173	673	49,424	50,097	
Grand Total .	46,243	225,000	271,243	50,360	260,611	310,971	42,410	139,809	182,219	
Ghár Canals ...	<i>Kharij.</i>									
	Rice... ..	8	233,657	233,665	...	232,469	232,469	...	212,508	212,508
	Jowári ...	12,187	27,639	39,826	14,013	43,344	57,357	15,725	31,435	47,205
	Báji ...	706	333	1,539	596	2,653	3,254	1,057	3,094	4,151
	Cotton ...	5	7	12	1	8	9	46	31	77
	Other Crops .	2,020	4,883	6,903	2,276	5,993	8,269	2,951	4,946	7,997
	Total ...	14,926	267,019	281,945	16,886	284,472	301,358	19,779	252,062	271,441
	<i>Rabi.</i>									
	Wheat ...	1,270	40,921	42,191	1,195	46,536	47,731	1,385	39,174	40,559
	Barley ...	8	59	67	6	93	99	5	139	144
Oil-seeds ...	239	30,374	31,163	454	35,765	36,219	759	20,322	30,651	
Other Crops .	304	118,469	118,773	233	110,153	110,386	399	78,357	78,756	
Total ...	1,871	190,323	192,194	1,888	192,597	194,485	2,548	146,902	149,540	
Grand Total.	16,797	457,342	474,139	18,774	477,069	495,843	22,327	399,054	421,351	
Western Nára	<i>Kharij.</i>									
	Rice... ..	...	163,193	163,193	152	160,407	160,559	...	160,671	160,671
	Jowári ...	35,414	15,704	51,118	41,658	33,150	74,808	24,797	20,476	49,273
	Báji ...	11,704	3,261	14,965	7,573	2,113	9,686	10,965	2,114	13,079
	Cotton ...	149	27	176	346	5	351	1,204	110	1,314
	Other Crops .	1,410	2,653	4,063	1,603	3,377	4,980	1,377	3,867	5,244
	Total ...	48,677	154,338	233,515	51,362	199,052	250,414	42,343	137,238	229,581

VIII.

Foreign and Jughir Lands for five years.

1912-1913.			1913-1914.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Crops.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
..	11,605	11,605	...	32,187	32,187	...	100	100	...	<i>Kharif.</i>
22,520	103,617	126,137	25,122	160,002	185,424	14	86	100	...	Rice
16,134	92,088	108,222	16,774	74,771	91,545	18	82	100	...	Jowari
43	86	129	16	595	611	9	97	100	...	Bajri
1,220	44,496	45,716	1,623	50,928	52,550	3	97	100	...	Cotton
39,917	251,892	291,809	43,834	318,483	362,317	12	88	100	68	Total.
										<i>Rabi.</i>
30	44,524	44,554	181	48,082	48,263	...	100	100	...	Wheat
1	31	32	1	88	89	1	99	100	...	Barley
17	15,825	15,842	10,753	44,959	55,712	19	81	100	...	Oil-seeds
1	47,691	47,692	31	68,619	68,650	...	100	100	...	Other Crops
49	108,071	108,120	10,966	161,748	172,714	6	94	100	32	Total.
39,966	359,963	399,929	54,800	480,231	525,031	10	90	100	100	Grand Total.
										<i>Kharif.</i>
40,920	19,491	19,491	2	27,737	27,739	...	100	100	...	Rice
6,650	64,425	105,854	30,461	61,662	92,123	33	67	100	...	Jowari
329	10,644	17,294	8,468	9,320	17,788	48	52	100	...	Bajri
1,477	668	997	275	755	1,030	27	73	100	...	Cotton
	7,990	9,467	1,458	7,622	9,080	16	84	100	...	Other Crops
49,385	108,218	152,603	40,664	107,096	147,760	23	72	100	64	Total.
										<i>Rabi.</i>
1,193	50,197	51,390	494	53,145	53,639	1	99	100	...	Wheat
6	184	190	5	178	183	3	97	100	...	Barley
16	4,169	4,185	4	8,164	8,168	...	100	100	...	Oil-seeds
18	13,404	13,422	4	19,334	19,338	...	100	100	...	Other Crops
1,233	67,954	69,187	507	80,821	81,328	1	99	100	36	Total.
50,618	171,172	221,790	41,171	187,917	229,088	18	82	100	100	Grand Total.
										<i>Kharif.</i>
16	207,800	207,816	6	217,343	217,349	...	100	100	...	Rice
25,849	48,401	74,250	20,581	33,992	54,573	38	62	100	...	Jowari
4,814	3,035	7,849	2,874	2,385	5,259	55	45	100	...	Bajri
104	34	138	24	36	60	40	60	100	...	Cotton
2,960	7,183	10,143	2,519	8,731	11,250	22	78	100	...	Other Crops
33,743	266,453	300,196	26,004	262,487	288,491	9	91	100	62	Total.
										<i>Rabi.</i>
1,807	44,109	45,916	1,945	45,444	47,389	4	96	100	...	Wheat
21	74	95	6	49	55	11	89	100	...	Barley
190	21,985	22,175	500	39,781	40,281	1	99	100	...	Oil-seeds
199	79,345	80,044	296	68,354	83,650	...	100	100	...	Other Crops
2,217	146,013	148,230	2,747	173,628	176,375	2	98	100	38	Total.
35,960	412,466	448,426	28,751	436,115	464,866	6	94	100	100	Grand Total.
										<i>Kharif.</i>
...	179,253	179,253	...	175,293	175,293	...	100	100	...	Rice
36,442	37,507	73,949	37,591	26,632	64,223	39	41	100	...	Jowari
7,100	3,508	10,608	5,629	1,611	7,240	78	22	100	...	Bajri
453	115	568	341	33	374	91	9	100	...	Cotton
1,036	3,775	4,811	1,270	3,525	4,795	26	74	100	...	Other Crops
45,031	224,158	269,189	44,831	207,094	251,925	18	82	100	60	Total.

Begari Canals.

Shikarpur Canals.

Ghar Canals.

Western Nara.

TABLE

Canals, Districts and Crops.		1908-1910.			1910-1911.			1911-1912.		
		Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Western Nára- contd.	<i>Rabi.</i>									
	Wheat ...	6,555	36,161	42,716	11,801	48,822	60,123	5,375	39,412	44,787
	Barley ...	217	1,035	1,252	168	2,267	2,435	397	2,111	2,508
	Oil-seeds ...	2,049	35,120	37,214	2,084	55,959	58,043	1,007	46,779	47,786
	Other Crops..	1,325	69,377	70,702	401	66,662	66,963	355	73,125	73,480
	Total ...	10,191	141,693	151,884	14,454	173,110	187,564	7,134	161,427	168,561
	Grand Total.	58,868	326,531	385,399	65,816	372,162	437,978	49,477	348,665	398,142
Karáchi Canals.	<i>Kharij.</i>									
	Rice ...	273	186,331	186,604	118	214,003	214,121	233	213,851	214,084
	Jowári ...	724	301	1,025	1,283	38	1,321	313	440	753
	Bájrí ...	21,179	5,257	20,436	14,590	1,949	16,539	7,225	2,598	9,823
	Cotton ...	2	...	2	7	...	7	28	...	28
	Other Crops..	2,206	3,498	5,704	3,041	1,401	4,442	2,315	1,579	3,894
	Total ...	24,384	195,387	219,771	19,039	217,391	236,430	10,114	218,468	228,582
	Grand Total.	24,674	231,623	256,297	20,064	254,148	274,212	10,202	246,301	256,503
Indus Right- Bank Division.	<i>Rabi.</i>									
	Wheat ...	...	169	169	...	182	182	...	82	82
	Barley ...	33	12,756	12,789	1,025	10,486	11,511	10	3,098	3,108
	Oil-seeds ...	...	7,899	7,899	...	6,283	6,283	...	5,544	5,544
	Other Crops..	257	15,412	15,669	...	19,806	19,806	78	19,109	19,187
	Total ...	290	36,236	36,526	1,025	36,757	37,782	88	27,833	27,921
	Grand Total.	24,674	231,623	256,297	20,064	254,148	274,212	10,202	246,301	256,503
Eastern Nára...	<i>Kharij.</i>									
	Rice ...	281	722,842	723,123	800	752,117	752,417	233	674,182	674,415
	Jowári ...	122,894	212,040	334,934	134,808	261,353	396,166	102,627	158,223	260,850
	Bájrí ...	50,840	68,405	119,245	39,568	58,207	97,775	36,405	50,713	87,118
	Cotton ...	240	602	842	458	713	1,171	1,460	788	2,248
	Other Crops..	7,828	55,406	63,234	10,744	63,057	73,801	10,465	59,773	70,238
	Total ...	182,083	1,059,295	1,241,378	185,878	1,185,452	1,321,330	151,190	943,679	1,094,869
Eastern Nára...	<i>Rabi.</i>									
	Wheat ...	9,008	188,147	192,155	13,791	220,438	234,229	7,436	140,833	148,269
	Barley ...	273	14,314	14,587	1,205	13,355	14,560	412	5,635	6,047
	Oil-seeds ...	6,247	117,935	124,182	2,851	134,193	137,049	1,859	103,960	105,819
	Other Crops..	2,003	368,372	370,375	704	359,903	360,607	855	240,912	241,767
	Total ...	17,531	683,768	701,299	18,551	727,894	746,445	10,562	491,340	501,902
	Grand Total.	199,614	1,743,063	1,942,677	204,429	1,863,346	2,067,775	161,752	1,435,019	1,596,771
Eastern Nára...	<i>Kharij.</i>									
	Rice ...	1	113,002	113,003	122	124,034	124,156	280	129,366	129,646
	Jowári ...	235	150	385	1,345	311	1,656	1,143	247	1,390
	Bájrí ...	24,563	9,707	34,270	17,722	11,819	29,541	13,120	11,006	24,126
	Cotton ...	5,618	14,925	20,543	8,364	13,137	21,501	10,374	22,559	33,433
	Other Crops..	1,389	336	1,725	1,777	564	2,341	1,070	991	2,061
	Total ...	31,806	138,120	169,926	29,330	149,865	179,195	26,487	164,169	190,656
	Grand Total.	34,844	184,603	219,447	32,255	216,109	248,394	31,216	214,966	246,182

VIII—continued.

1912-1913.			1913-1914.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Crops.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
8,629	41,988	50,617	12,149	37,276	49,425	25	75	100	...	<i>Rabi.</i>
494	1,529	2,023	905	1,914	2,819	32	68	100	...	Wheat... ..
1,577	46,661	48,238	1,802	48,172	50,054	4	96	100	...	Barley... ..
571	72,206	72,867	557	62,356	62,913	1	99	100	...	Oil-seeds
										Other Crops
11,271	162,474	173,745	15,493	149,718	165,211	9	91	100	40	Total
56,802	386,632	442,934	60,324	356,812	417,136	14	86	100	100	Grand Total.
										<i>Kharif.</i>
297	226,202	226,499	126	224,449	224,575	...	100	100	...	Rice
625	106	731	926	322	1,248	74	26	100	...	Jowari... ..
8,494	719	9,213	8,262	3,019	11,281	73	27	100	...	Bajri
3	...	3	6	...	6	100	...	100	...	Cotton... ..
3,043	1,694	4,742	1,950	1,419	3,369	58	42	100	...	Other Crops
12,467	223,721	241,188	11,270	229,209	240,479	5	95	100	83	Total
										<i>Rabi.</i>
...	107	107	...	279	279	...	100	100	...	Wheat... ..
4	5,688	5,892	...	9,801	9,801	...	100	100	...	Barley... ..
...	10,073	10,073	...	17,859	17,859	...	100	100	...	Oil-seeds
150	19,767	19,917	501	22,325	22,826	2	98	100	...	Other Crops
154	35,635	35,789	501	50,264	50,765	1	99	100	17	Total
12,621	264,366	276,977	11,771	279,473	291,244	4	96	100	100	Grand Total.
										<i>Kharif.</i>
313	644,351	644,664	134	677,009	677,143	...	100	100	...	Rice
126,365	254,056	380,421	114,931	282,610	397,591	29	71	100	...	Jowari... ..
43,192	109,994	153,186	42,007	91,406	133,113	32	68	100	...	Bajri
932	903	1,835	662	1,419	2,081	32	68	100	...	Cotton... ..
9,741	65,138	74,879	8,819	72,225	81,044	11	89	100	...	Other Crops
180,543	1,074,442	1,254,985	166,603	1,124,369	1,290,972	13	87	100	67	Total
										<i>Rabi.</i>
11,659	180,925	192,584	14,769	184,226	198,995	7	93	100	...	Wheat... ..
526	7,506	8,032	917	12,030	12,947	7	93	100	...	Barley... ..
1,800	98,713	100,513	13,139	158,935	172,074	8	92	100	...	Oil-seeds
939	233,003	233,942	1,389	260,988	262,377	1	99	100	...	Other Crops
14,924	520,147	535,071	30,214	616,179	646,393	5	95	100	33	Total
195,467	1,594,589	1,790,056	196,817	1,740,543	1,937,365	10	90	100	100	Grand Total.
										<i>Kharif.</i>
596	125,740	126,336	1,167	121,287	122,451	1	99	100	...	Rice
2,279	784	3,063	2,350	936	3,316	72	28	100	...	Jowari... ..
26,734	18,768	45,502	25,074	11,482	36,556	69	31	100	...	Bajri
15,276	20,139	35,415	22,669	29,892	52,561	43	57	100	...	Cotton... ..
1,268	906	2,174	1,373	685	2,058	67	33	100	...	Other Crops
46,153	166,337	212,490	52,663	164,282	216,945	24	76	100	83	Total
										<i>Rabi.</i>
1,617	25,068	26,685	2,525	21,902	24,427	10	90	100	...	Wheat... ..
34	202	236	19	202	221	9	91	100	...	Barley... ..
909	7,990	8,899	733	11,237	11,970	6	94	100	...	Oil-seeds
426	8,031	8,457	213	6,313	6,531	3	97	100	...	Other Crops
2,986	41,291	44,277	3,495	39,654	43,149	8	92	100	17	Total
49,139	207,628	256,767	56,158	203,936	260,094	22	78	100	100	Grand Total.

TABLE

Canals, Districts and Crops.	1909-1910.			1910-1911.			1911-1912.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Nasrat Canals									
<i>Khariif.</i>									
Rice ...	...	15,090	15,090	81	16,436	16,517	3	15,213	15,216
Jowári ...	65,834	35,743	101,577	62,774	39,648	102,422	49,114	32,914	82,028
Bájrí ...	59,090	30,089	89,179	50,885	22,398	73,283	47,791	13,407	61,198
Cotton ...	6,973	11,241	18,214	13,827	33,169	46,996	25,981	41,601	67,582
Other Crops ...	5,502	9,906	15,408	7,086	13,494	20,580	6,098	10,930	17,028
Total ...	137,309	102,069	239,368	134,653	126,145	259,798	123,987	114,065	243,052
<i>Rabi.</i>									
Wheat ...	865	14,761	15,616	752	18,412	19,164	644	12,118	12,762
Barley ...	97	753	850	18	1,811	1,829	38	873	911
Oil-seeds ...	88	30,427	30,515	30	20,085	20,115	43	12,809	12,852
Other Crops ...	155	2,991	3,146	29	4,202	4,231	42	3,743	3,785
Total ...	1,195	48,932	50,127	829	44,510	45,339	767	29,543	30,310
Grand Total.	138,504	151,001	289,595	135,482	169,655	305,137	129,754	143,608	273,362
Hyderabad Canals									
<i>Khariif.</i>									
Rice ...	...	3,965	3,965	...	5,371	5,871	...	6,691	6,691
Jowári ...	5,511	807	6,318	6,616	1,189	7,805	6,600	528	7,128
Bájrí ...	140,072	14,825	154,897	126,854	15,843	142,697	123,696	11,598	135,294
Cotton ...	56,454	8,789	65,243	63,075	10,512	73,587	80,861	8,996	89,857
Other Crops ...	8,496	646	9,142	7,319	807	8,126	6,159	762	6,921
Total ...	210,533	29,032	239,565	203,864	33,722	237,586	217,316	28,575	245,891
<i>Rabi.</i>									
Wheat ...	607	4,084	4,691	712	8,446	9,158	530	3,297	3,827
Barley ...	2	9	11	...	5	5	5	8	13
Oil-seeds ...	521	7,145	7,666	760	22,744	23,504	184	2,612	2,796
Other Crops ...	163	6,772	6,940	171	7,677	7,848	302	3,139	3,471
Total ...	1,293	18,010	19,308	1,643	38,872	40,515	1,051	14,056	15,107
Grand Total.	211,831	47,042	258,873	205,507	72,594	278,101	218,367	42,631	260,998
Fuleli Canals...									
<i>Khariif.</i>									
Rice ...	...	234,108	234,108	100	237,831	237,931	40	250,400	250,440
Jowári ...	1,930	501	2,431	2,595	1,001	3,596	2,357	1,158	3,545
Bájrí ...	88,609	8,109	96,718	75,180	6,915	82,095	57,938	10,057	67,995
Cotton ...	17,173	1,204	18,377	22,680	2,303	25,083	22,037	5,499	27,536
Other Crops ...	6,197	2,149	8,346	6,997	1,650	8,647	5,823	1,895	7,718
Total ...	113,969	246,151	360,120	110,552	249,780	360,332	88,225	269,009	357,234
<i>Rabi.</i>									
Wheat ...	1,971	12,392	14,363	457	9,770	10,227	553	9,979	10,532
Barley ...	96	2,447	2,543	84	1,426	1,510	146	2,054	2,200
Oil-seeds ...	552	19,445	20,097	156	16,356	17,912	351	37,984	37,435
Other Crops ...	1,834	14,446	16,310	1,943	16,306	18,249	776	20,239	21,016
Total ...	4,553	48,890	53,443	2,640	44,358	46,998	1,826	69,856	71,182
Grand Total.	118,522	295,041	413,563	113,192	294,138	407,330	90,051	338,865	428,416

VIII—continued.

1912-1913.			1913-1914.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Crops.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
2	14,528	14,530	15	13,725	13,740	...	100	100	...	<i>Kharif.</i>
62,876	38,667	101,543	70,798	40,481	111,279	64	36	100	...	Rice ...
58,988	20,395	85,383	53,008	19,004	72,012	74	26	100	...	Jowari ...
11,803	27,055	38,858	15,399	25,642	41,041	38	62	100	...	Bajri ...
4,114	8,550	12,664	6,274	9,579	15,853	40	60	100	...	Cotton ...
										Other Crops ...
137,783	115,195	252,978	145,494	108,431	253,925	57	43	100	84	Total.
										<i>Rabi.</i>
1,215	15,954	17,169	463	17,962	18,425	3	97	100	...	Wheat ...
88	995	1,083	13	945	957	1	99	100	...	Barley ...
51	19,120	19,171	11	24,560	24,571	...	100	100	...	Oil-seeds ...
61	3,970	4,031	...	4,030	4,030	...	100	100	...	Other Crops ...
1,415	40,039	41,454	436	47,497	47,983	1	99	100	16	Total.
139,198	155,234	294,432	145,930	155,928	301,908	48	52	100	100	Grand Total.
										<i>Kharif.</i>
3	6,425	6,428	6	4,842	4,848	...	100	100	...	Rice ...
8,427	984	9,411	8,154	1,092	9,246	88	12	100	...	Jowari ...
154,136	17,518	171,654	141,058	14,831	155,889	90	10	100	...	Bajri ...
64,882	8,333	73,215	71,510	9,042	80,552	89	11	100	...	Cotton ...
6,066	506	6,572	7,783	430	8,273	94	6	100	...	Other Crops ...
233,514	33,816	267,330	228,511	30,297	258,808	88	12	100	91	Total.
										<i>Rabi.</i>
1,132	5,929	7,061	557	5,810	6,367	9	91	100	...	Wheat ...
3	13	16	4	4	8	50	50	100	...	Barley ...
229	6,121	6,350	335	8,605	8,990	4	96	100	...	Oil-seeds ...
473	9,020	9,493	230	10,582	10,812	2	98	100	...	Other Crops ...
1,837	21,083	22,920	1,176	25,031	26,177	4	96	100	9	Total.
235,351	54,899	290,250	229,687	55,293	284,985	81	19	100	100	Grand Total.
										<i>Kharif.</i>
101	275,272	275,373	176	263,902	264,078	...	100	100	...	Rice ...
2,845	839	3,684	3,673	733	4,456	82	18	100	...	Jowari ...
78,055	6,851	84,906	77,396	6,223	83,619	93	7	100	...	Bajri ...
16,655	736	17,391	22,256	1,773	24,029	93	7	100	...	Cotton ...
7,303	1,514	8,817	8,707	1,764	10,471	83	17	100	...	Other Crops ...
104,959	285,212	390,171	112,208	274,445	386,653	29	71	100	90	Total.
										<i>Rabi.</i>
1,934	8,191	10,125	311	7,838	8,149	4	96	100	...	Wheat ...
69	2,172	2,241	33	718	751	4	96	100	...	Barley ...
199	15,330	15,579	645	16,625	17,270	4	96	100	...	Oil-seeds ...
445	16,256	16,701	4,567	13,291	17,858	26	74	100	...	Other Crops ...
2,647	41,999	44,646	5,556	38,472	44,028	13	87	100	10	Total.
107,606	327,211	434,817	117,764	312,917	430,681	27	73	100	100	Grand Total.

Nasrat Canals.

Hyderabad Canals.

Fulelj Canals.

TABLE

Canals, Districts and Crops.	1909-1910.			1910-1911.			1911-1912.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
<i>Kharij.</i>									
Rice ...	3	965	968	...	1,002	1,002	3	2,881	2,884
Jowári ...	974	2,223	3,197	1,080	2,481	3,561	1,296	2,668	3,964
Bájrí ...	19,742	28,490	48,232	17,488	20,398	37,886	13,881	17,879	31,760
Cotton ...	24,720	50,108	74,828	30,841	70,898	101,739	32,010	79,009	111,049
Other Crops ...	1,345	5,143	6,488	1,524	5,151	6,675	1,087	4,552	5,639
Total ...	46,784	86,929	133,713	50,933	99,930	150,863	48,307	106,989	155,296
<i>Rabi.</i>									
Wheat ...	4,646	27,806	32,452	6,225	39,279	39,504	9,763	44,449	54,212
Barley ...	42	208	250	124	477	601	435	1,511	1,946
Oil-seeds ...	608	4,890	5,498	330	2,610	2,940	616	3,064	3,680
Other Crops ...	1,099	6,925	8,024	764	3,509	4,273	2,312	13,437	15,749
Total ...	6,395	39,829	46,224	7,443	39,875	47,318	13,126	62,461	75,587
Grand Total.	53,179	126,758	179,937	58,376	139,805	198,181	61,433	169,450	230,883
<i>Kharij.</i>									
Rice ...	4	367,130	367,134	303	384,674	384,977	326	404,551	404,877
Jowári ...	74,484	39,124	113,908	74,410	44,630	119,040	60,540	37,515	98,055
Bájrí ...	332,156	91,300	423,456	291,129	77,373	368,502	256,426	63,947	320,373
Cotton ...	110,918	86,267	197,185	138,787	130,099	268,886	171,793	157,664	329,457
Other Crops ...	22,929	18,180	41,109	24,703	21,666	46,369	20,237	19,130	39,367
Total ...	540,491	602,301	1,142,792	629,332	658,442	1,187,774	509,322	682,807	1,192,129
<i>Rabi.</i>									
Wheat ...	10,161	89,029	99,190	10,165	111,634	121,799	14,852	103,912	118,764
Barley ...	273	3,887	4,160	283	3,974	4,257	600	4,779	5,459
Oil-seeds ...	2,215	69,044	71,259	1,604	78,029	79,633	1,958	62,963	64,921
Other Crops ...	3,830	40,184	44,014	3,458	40,222	43,680	4,009	54,559	58,568
Total ...	16,479	202,144	218,623	15,510	233,859	249,369	21,499	226,213	247,712
Grand Total.	556,970	804,445	1,361,415	644,842	892,301	1,437,143	530,821	909,020	1,439,841
<i>Kharij.</i>									
Rice ...	285	1,089,972	1,090,257	603	1,136,791	1,137,394	559	1,078,733	1,079,292
Jowári ...	197,378	251,464	448,842	209,218	305,988	515,206	163,167	195,738	358,905
Bájrí ...	382,996	159,705	542,701	330,697	135,580	466,277	292,831	114,660	407,491
Cotton ...	111,158	86,869	198,027	139,245	130,812	270,057	173,253	158,452	331,705
Other Crops ...	30,757	73,586	104,343	35,447	84,723	120,170	30,702	78,903	109,605
Total ...	722,574	1,661,596	2,384,170	715,210	1,793,894	2,309,104	660,512	1,626,486	2,286,998
<i>Rabi.</i>									
Wheat ...	19,169	272,176	291,345	23,956	332,072	356,028	22,288	244,745	267,033
Barley ...	546	18,201	18,747	1,488	17,329	18,817	1,092	10,114	11,506
Oil-seeds ...	8,462	186,979	195,441	4,475	212,227	216,682	3,317	166,023	170,740
Other Crops ...	5,833	408,566	414,399	4,162	400,125	404,287	4,864	295,471	300,355
Total ...	34,010	885,912	919,932	34,061	961,753	995,814	32,061	717,553	749,614
Grand Total.	756,584	2,547,508	3,304,092	749,271	2,755,647	3,304,918	692,573	2,344,039	3,036,612

VIII—concluded.

1913-1913.			1913-1914.			Percentage of Lift and Flow.			Percentage of Kharif and Rabi.	Canals, Districts and Crops.
Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.		
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
...	177	177	...	...	...	...	...	...	...	<i>Kharif.</i>
1,867	4,932	6,329	1,045	2,924	3,969	26	74	100	...	Rice ...
19,037	29,439	48,476	19,348	25,294	44,642	43	57	100	...	Jowári ...
23,910	84,823	113,738	32,807	91,450	124,667	26	74	100	...	Báji ...
854	3,506	4,390	1,105	3,551	4,659	24	76	100	...	Cotton ...
									...	Other Crops ...
50,198	122,912	173,110	54,308	123,619	177,927	31	69	100	74	Total.
										<i>Rabi.</i>
11,024	49,114	60,138	7,008	42,167	49,175	14	86	100	...	Wheat ...
338	856	1,194	134	720	858	16	84	100	...	Barley ...
714	3,434	4,148	408	2,564	2,972	14	86	100	...	Oil-seeds ...
1,287	9,411	10,698	926	7,759	8,685	11	89	100	...	Other Crops ...
13,363	62,815	76,178	8,480	53,210	61,690	14	86	100	26	Total.
63,561	185,727	249,288	62,788	176,329	239,617	26	74	100	100	Grand Total.
										<i>Kharif.</i>
702	422,142	422,844	1,364	403,756	405,120	...	100	100	...	Rice ...
77,794	46,236	124,030	86,050	46,216	132,266	65	35	100	...	Jowári ...
336,950	98,971	435,921	315,584	76,834	392,718	80	20	100	...	Báji ...
137,526	141,141	278,667	161,641	158,199	322,840	51	49	100	...	Cotton ...
19,635	14,932	34,617	25,245	16,069	41,314	61	39	100	...	Other Crops ...
572,607	723,472	1,296,079	593,184	701,074	1,294,258	46	54	100	85	Total.
										<i>Rabi.</i>
16,922	104,256	121,178	10,864	95,679	106,543	10	90	100	...	Wheat ...
532	4,238	4,770	206	2,589	2,795	7	93	100	...	Barley ...
2,102	52,045	54,147	2,182	63,591	65,773	3	97	100	...	Oil-seeds ...
2,692	46,688	49,380	5,941	41,975	47,916	12	88	100	...	Other Crops ...
22,248	207,227	229,475	19,193	203,834	223,027	9	91	100	15	Total.
594,855	930,699	1,525,554	612,377	904,908	1,517,285	40	60	100	100	Grand Total.
										<i>Kharif.</i>
1,015	1,066,493	1,067,508	1,498	1,080,765	1,082,263	...	100	100	...	Rice ...
204,159	300,292	504,451	201,031	328,826	529,857	38	62	100	...	Jowári ...
380,142	208,965	589,107	357,891	167,940	525,831	68	32	100	...	Báji ...
138,458	142,044	280,502	165,303	159,618	324,921	51	49	100	...	Cotton ...
29,376	80,120	109,496	34,064	88,294	122,358	28	72	100	...	Other Crops ...
753,150	1,797,914	2,551,064	750,787	1,825,443	2,585,230	29	71	100	75	Total.
										<i>Rabi.</i>
28,581	285,181	323,762	25,633	279,905	305,538	8	92	100	...	Wheat ...
1,058	11,744	12,802	1,123	14,619	15,742	7	93	100	...	Barley ...
3,902	150,758	154,660	15,321	222,526	237,847	6	94	100	...	Oil-seeds ...
3,631	279,691	283,322	7,330	302,963	310,293	2	98	100	...	Other Crops ...
37,172	727,374	764,546	49,407	820,013	869,420	6	94	100	25	Total.
790,322	2,525,288	3,315,610	809,194	2,645,456	3,454,650	23	77	100	100	Grand Total.

TABLE IX.

Rainfall in the Province of Sind for the year 1913-1914.

Collectorate and Districts.			April 1913.	May.	June.	July.	August.	September.	October.	November.	December.	January 1914.	February.	March.	Total, 1913-1914.	Total, 1912-1913.	
			In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	
<i>Indus Right Bank Division.</i>																	
SINDH COLLECTORATE.	Begari Canals District.	Kashmor	...	...	0 28	0 32	0 89	...	...	...	0 17	0 2	0 20	0 1	1 67	0 80
		Kandkot	...	...	0 32	0 48	4 11	...	...	...	0 49	...	0 42	...	5 11	3 18
		Jacobabad	0 32	0 48	1 47	0 40	...	1 30	0 3	0 84	...	4 98	1 60
		Thul	0 24	2 0	1 78	0 95	...	0 78	...	5 70	0 59
		Shahdadpur	0 8	3 33	0 47	1 66	0 4	0 79	...	6 37	2 28
Average			...	...	...	...	...	...	...	...	...	...	...	4 91	1 69	
			Mean average of 10 years ...													3 10	
SUKKUR COLLECTORATE.	Shikarpur Canals District.	Ubauro	...	...	0 30	0 42	3 27	...	...	...	0 18	...	0 11	...	4 37	2 11
		Mirpur Mathelo	1 12	0 23	3 35	0 2	...	0 28	...	0 12	...	5 12	3 6
		Ghotki	0 20	3 35	0 4	0 46	...	0 16	...	4 21	4 59
		Rohri	1 48	0 87	0 5	...	1 23	...	0 58	...	4 19	5 39
		Sukkur	0 90	0 44	0 6	...	0 7	...	1 17	...	0 50	...	3 23	4 66
Average			...	...	...	...	...	...	...	...	...	...	...	4 84	3 6	
			Mean average of 10 years ...													3 1	
LAHORE COLLECTORATE.	Ghar Canals District.	Ratodero	...	...	0 32	0 88	1 83	...	...	...	1 27	0 3	1 10	...	5 38	2 0
		Larkana	...	0 34	...	0 2	1 41	1 52	1 34	...	0 76	...	5 39	2 41
		Kambar	0 48	1 71	0 80	0 53	1 43	...	0 70	0 3	5 25	1 76
		Bakrani	2 34	0 80	1 49	...	0 64	0 12	5 2	2 23
		Warrah	0 1	1 67	1 7	1 39	...	0 58	...	4 70	1 82
Average			...	...	...	...	...	...	...	...	...	...	...	5 15	2 4	
			Mean average of 10 years ...													3 13	
LAHORE COLLECTORATE.	Western Nara District.	Mehar	...	...	0 6	2 14	0 88	...	...	...	1 58	...	0 56	0 2	5 19	2 31
		Khairpur Nathausah	...	...	0 1	2 89	1 42	...	...	...	1 80	...	0 71	0 2	6 94	1 84
		Dadu	...	...	0 27	6 40	1 37	...	...	...	1 60	...	0 71	...	10 25	2 81
		Johi	...	...	0 83	4 61	4 5	...	...	...	1 40	...	0 86	...	11 45	2 94
		Schwan	0 9	7 2	1 28	0 16	1 37	...	0 70	0 8	10 70	4 7
Average			...	...	...	...	...	...	...	...	...	...	...	11 88	3 70	
			Mean average of 10 years ...													5 42	
KARACHI COLLECTORATE.	Karachi Canals District.	Bulakhan's Thano	...	...	0 24	17 10	9 37	0 73	...	0 6	0 49	...	1 67	...	29 66	15 14
		Jerruck	...	...	0 1	12 92	5 33	2 17	...	...	0 29	...	0 64	...	21 56	3 92
		Tatta	...	...	0 2	25 93	19 33	1 41	...	0 4	0 10	...	0 7	...	37 90	6 34
		Sakro	...	...	...	20 17	6 58	0 69	...	...	0 5	...	1 9	0 11	28 69	4 31
		Kotri Ghorabari	...	...	...	19 85	15 65	...	...	...	0 4	...	0 59	...	36 13	2 4
Average			...	...	...	...	...	...	...	...	...	...	...	31 29	5 11	
			Mean average of 10 years ...													10 2	
Average for Indus Right Bank Division			...	...	...	...	...	...	...	...	...	...	...	...	11 53	3 12
<i>Indus Left Bank Division.</i>																	
TELR AND SHAH COLLECTORATE.	Jamrao Canal District.	Mirpur Khās	...	...	0 52	11 76	2 74	4 44	...	0 4	0 85	...	0 27	...	20 13	6 87
		Jamrao Canal	...	...	...	3 50	1 51	1 35	...	...	0 62	...	0 52	...	7 30	3 72
		Jamrao and Hyderabad Canals	...	...	...	7 25	0 72	2 81	...	...	0 45	...	0 27	...	11 3	1 19
		Sindhoro
		Average	...	...	...	...	...	...	...	...	...	...	...	...	12 82	3 93
			Mean average of 10 years ...													8 5	
TELR AND SHAH COLLECTORATE.	Eastern Nara District.	Umarkot	...	...	1 43	5 70	6 64	12 48	...	...	0 7	...	0 35	...	26 67	7 91
		Mithi	...	...	1 70	13 97	19 18	7 7	...	...	0 11	...	0 6	...	41 9	11 14
		Chachro	...	0 2	2 33	6 37	3 19	10 61	...	...	0 10	...	0 18	0 2	26 2	8 25
		Nagar Parkar	...	...	1 1	15 35	15 50	6 62	...	0 3	...	...	1 1	...	39 52	15 49
		Khayra	...	...	1 86	6 29	2 58	6 34	...	...	0 16	...	0 32	...	17 53	8 95
Average			...	...	...	...	...	...	...	...	...	...	...	27 10	9 44	
			Mean average of 10 years ...													8 65	
NAWABSHAH COLLECTORATE.	Nasrat Canals District.	Nawabshah	...	...	0 10	11 60	3 19	0 68	...	...	1 3	...	0 28	...	16 77	1 42
		Kandiaro	...	...	...	1 47	0 61	0 3	...	...	1 66	...	0 31	...	4 35	4 9
		Nausahro	...	...	0 85	4 0	0 60	0 3	...	...	1 83	...	0 25	...	7 56	4 53
		Tharushah	...	...	...	2 87	1 15	0 10	...	...	1 94	...	0 33	...	6 39	4 12
		Moro	...	...	...	4 10	0 70	1 10	...	...	1 53	...	0 45	...	7 89	7 2
Average			...	...	...	...	...	...	...	...	...	...	...	8 59	4 49	
			Mean average of 10 years ...													4 43	
HYDERABAD COLLECTORATE.	Hyderabad Canals District.	Sakrand	...	...	1 59	11 40	2 12	0 75	...	...	1 8	...	0 44	...	17 39	3 76
		Shahdadpur	...	...	0 5	8 97	0 55	1 80	...	0 3	0 74	...	0 36	...	12 50	5 93
		Hala	...	...	0 15	12 45	0 93	2 10	...	...	0 68	...	0 58	...	16 85	8 79
		Tando Adam	...	...	0 16	10 53	0 91	5 13	...	0 2	0 42	...	0 40	...	17 56	8 3
		Tando Alahyar	...	...	...	12 90	2 9	6 54	...	0 3	...	...	0 33	...	21 89	8 62
Average			...	...	...	...	...	...	...	...	...	...	...	17 24	7 3	
			Mean average of 10 years ...													7 14	
HYDERABAD COLLECTORATE.	Fuleli Canals District.	Hyderabad	...	...	0 9	13 21	3 70	3 47	...	...	0 23	...	0 80	0 31	20 81	6 4
		Dero Mohbat	...	...	0 6	10 11	2 97	8 5	...	...	0 15	...	0 64	...	21 88	5 53
		Tando Bago	0 45	11 23	4 15	5 7	0 6	0 13	...	0 71	...	25 50	8 2
		Badin	1 66	21 28	3 96	6 6	0 2	0 9	...	0 44	...	38 51	8 48
		Tando Mahomed Khan	0 6	10 37	2 27	4 65	0 34	...	0 66	...	18 35	4 11
Average			...	...	...	...	...	...	...	...	...	...	...	25 1	6 44	
			Mean average of 10 years ...													9 83	
Average for Indus Left Bank Division			...	...	...	...	...	...	...	...	...	...	...	...	18 15	6 26
			Mean average of 10 years for Indus Left Bank Division ...													7 41	

Mémcrandum showing the amounts of loss to Canals on account of difference between the assessments of water-rates on Jughir Lands and assessments at the ordinary rates in force for Government Lands.

Works.	To end of 1912-1913.	During 1913-1914.	To end of 1913-1914.	Remarks.
MAJOR WORKS.				
<i>Productive Works.</i>				
Desert Canal	15,26,511	70,157	15,96,668	
Unharwáh	14,465	782	15,247	
Begári Canal	18,29,658	57,411	18,87,069	
Mahiwáh	66,379	4,310	70,689	
Eastern Nára Works	4,91,223	24,824	5,15,547	
Jámráo Canal	1,44,476	9,428	1,53,899	
Dád Canal	2,41,908	23,567	2,65,475	
Nasrat Canal	18,232	1,665	19,897	
Total ...	43,32,852	1,91,639	45,24,491	
MINOR WORKS AND NAVIGATION.				
<i>Works for which Capital and Revenue Accounts are kept.</i>				
Sukkur Canal	2,04,971	9,381	2,14,352	
Ghár Canal	10,32,037	49,104	10,81,141	
Sattah Canal	2,684	106	2,790	
Alibhar Kacheri Canal	98,034	3,894	1,01,928	
Márák Great Canal	5,55,946	21,707	5,77,653	
Sarfrazwáh	3,12,693	6,873	3,19,566	
Fuleli Canal	47,01,236	1,90,435	48,91,671	
Hassanali Canal	12,296	1,770	14,066	
Total ...	69,19,897	2,83,270	72,03,167	
<i>Works for which only Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	63,632	...	
Western Nára District ... ..	...	56,875	...	
Karáchi Canals District ... ..	...	9,560	...	
Nasrat Canals District ... ..	...	10,199	...	
Hyderabad Canals District ... ..	...	65,829	...	
Fuleli Canals District ... ..	...	6,320	...	
Total ...	...	2,12,415	...	
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	14,145	...	
Ghár Canals District ... ..	...	179	...	
Karáchi Canals District ... ..	...	874	...	
Total ...	...	15,198	...	

R. A. O'CONNOR,
Deputy Accountant General.

Statement showing Actual Receipts during 1913-14 on account of Irrigation Share of Land Revenue from Canals in Sind.

MAJOR WORKS.	Gross Irrigation Share of Land Revenue.	Deduct $\frac{1}{10}$ th of Cash Refunds of Land Revenue in the Civil Department.	Net Irrigation share of Land Revenue.
<i>Productive Works.</i>	Rs.	Rs.	Rs.
Desert Canal	2,38,599	.....	2,38,599
Unharwáh	1,27,984	.....	1,27,984
Begári Canal	5,33,641	.....	5,33,641
Mahiwáh	1,49,118	.....	1,49,118
Eastern Nára Works—			
Mithrao Canal	3,37,938	.....	3,37,938
Nára Canal	57,922	.....	57,922
Thar do.	1,57,376	.....	1,57,376
Khipra Canal	4,863	.....	4,863
Hiral Canal	48,498	.....	48,498
Hiran do.	2,075	.....	2,075
Nára Supply Channel	10,776	.....	10,776
	6,19,448	.....	6,19,448
Jámrao Canal	7,00,515	.....	7,00,515
Dád Canal	2,47,127	.....	2,47,127
Nasrat Canal	2,47,789	.....	2,47,789
Total, Major Works ...	28,64,221	.....	28,64,221
MINOR WORKS AND NAVIGATION.			
<i>Works for which Capital and Revenue Accounts are kept.</i>			
Sukkur Canal	2,58,690	.....	2,58,690
Ghár Canal	9,75,736	.....	9,75,736
Sattah Canal	21,181	.....	21,181
Alibhar Kacheri Canal	29,673	.....	29,673
Máarak Great Canal	1,65,639	.....	1,65,639
Sarfrazwáh Canal	59,140	.....	59,140
Fuleli Canal	7,03,495	.....	7,03,495
Hassanali Canal	41,160	.....	41,160
Total ...	22,54,714	.....	22,54,714
<i>Works for which only Revenue Accounts are kept.</i>			
Shikárpur Canals District	4,55,683	.....	4,55,683
Western Nára District	10,02,220	.....	10,02,220
Karáchi Canals District	3,04,781	.....	3,04,781
Nasrat Canals District	2,34,047	.....	2,34,047
Hyderabad Canals District	3,27,146	.....	3,27,146
Fuleli Canals District	57,682	.....	57,682
Total ...	23,81,559	.....	23,81,559
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>			
Begári Canals District—			
Kashmore Bund	5,345	.....	5,345
Shikárpur Canals District—			
Sukkur Begári Bund	21,482	.....	21,482
Kasimpur Bund	4,101	.....	4,101
Bunds in Rohri District	226	.....	226
Ghár Canals District—			
Ghár Bunds	4,043	.....	4,043
Western Nára District—			
Nára Bunds	9,302	.....	9,302
Karáchi Canals District—			
Bunds Right and Left Banks	12,832	.....	12,832
Total ...	57,331	.....	57,331
Total, Minor Works ...	46,93,604	.....	46,93,604
GRAND TOTAL ...	75,57,825	.....	75,57,825

R. A. O'CONNOR,
Deputy Accountant General.

Statement of Highest Readings on Bukkur and Kotri gauges from 1880 to 1913.

Year.	Bukkur.		Kotri.		Remarks.
	Date.	Highest reading.	Date.	Highest reading.	
1880	8th July	14.9	14th August	17.1	
1881	20th June	14.4	28th "	17.2	
1882	7th August	17.6	17th "	20.5	
1883	17th July	15.9	26th July	18.5	
1884	19th August	15.8	27th August	19.2	
1885	20th "	15.4	4th September.	20.3	
1886	22nd July	16.3	19th August	20.3	
1887	18th August	16.6	2nd "	19.7	
1888	29th "	14.4	3rd September .	17.9	
1889	19th July	16.6	24th July	19.8	
1890	24th August	16.0	31st August	20.6	
1891	15th "	14.8	20th "	20.6	
1892	18th "	16.8	27th "	21.3	
1893	30th July	15.8	3rd "	21.0	
1894	7th August	16.4	14th "	22.6	
1895	24th "	15.3	26th "	18.3	
1896	7th "	15.8	19th "	19.4	
1897	28th "	17.9	19th "	22.0	
1898	18th July	13.3	21st July	18.5	
1899	27th "	13.4	29th "	18.6	
1900	16th August	14.5	24th August	19.3	
1901	15th "	16.4	19th "	19.5	
1902	1st "	13.5	4th "	15.9	
1903	22nd "	17.1	27th "	19.7	
1904	6th "	15.8	22nd "	18.7	
1905	20th July	16.7	25th July	19.1	
1906	22nd August...	16.6	29th August	20.9	
1907	20th "	13.7	27th "	19.4	
1908	12th "	16.1	16th September.	22.9	
1909	28th "	14.4	30th August	20.8	
1910	4th September.	14.5	8th September.	22.3	
1911	20th June	14.0	28th June	20.7	
1912	10th August	15.5	17th August	21.7	
1913	15th August	15.0	20th August	20.9	

No. W-74 of 1915.

PUBLIC WORKS DEPARTMENT.

*Office of the Commissioner in Sind :**Government House, Karáchi, 28th 29th January 1915.*

Submitted to Government together with a comparative statement showing the area irrigated and the assessment thereon for the three years ending 1913-14 and the average of the three years ending 1912-13.

Irrigation Revenue Report of the Province of Sind for 1913-14.

2. The inundation compared with that of the previous year was unfavourable. The river rose late, its level constantly fluctuated, and was particularly low at the end of July, when water is most required. The first rise began in the latter part of May, but owing to fluctuations the fair irrigating level of 13' at the Bukkur gauge was not reached until the 2nd August. This level was maintained upto the 17th August (for 16 days only as compared with 31 days in the previous year and 43 days, the average of the previous 10 years); on the 18th the river fell to 10.9 feet and thereafter, except for a few days, continued to fall till the end of the season. This sudden fall at a time when the kharif crops were in need of a final watering would have had disastrous results but for timely and copious rainfall in July and August. The fair irrigating level of 17 feet at the Kotri gauge was first registered on the 17th June and was maintained for 66 days as compared with 59 days in the previous year and 66 days, the average of the previous 10 years. Except in the delta portions of the Karáchi and Hyderabad Districts the season, on the whole, was a favourable one owing to the good rains, and the results as shown in the comparative statement indicate an improvement both in the area of cultivation and assessment in comparison with the figures of the last year. The increase in area amounts to 108,057 acres or 3.56, and in assessment to Rs. 1,40,503 or 1.67 per cent. A comparison of the current year's figures with the average figures of the past three years indicates an increase of 6.16 per cent. in area and 2.12 per cent. in assessment.

3. The following table shows the results of each Division separately :—

Division.	As compared with 1912-13.		As compared with the average of 3 years.	
	Kharif.	Rabi.	Kharif.	Rabi.
	Acres.	Acres.	Acres.	Acres.
Right Bank	+ 35,987	+ 82,300	+ 67,242	+ 65,346
Left do.	- 1,930	- 8,300	+ 68,799	- 18,746

4. There has been a striking increase in the cultivated area on the following canals :—

	Acres.
Begari Canal	103,842
Jamrao do.	13,386
Nasrat do.	7,395
Mithrao do.	10,211
Ghar do.	5,413
Fuleli do.	5,383
Pinyari do.	10,687

The increase in kharif cultivation was general; the rabi increase occurred on the Begari, Nasrat, Ghar and Pinyari canals. On the other hand, the Unharwah and the Mahiwah show a considerable decrease particularly in rabi.

5. During the year remissions of land revenue amounted to Rs. 7,64,482 as against Rs. 4,45,719 in the previous year and Rs. 4,19,525, the average of the three preceding years. The remissions include Rs. 1,42,090 on account of the difference between the new rice rates sanctioned for the Tando division, and the old rates, the levy of which was postponed for one year under Government Resolution (Confidential) No. 4147/101, dated the 4th May 1914, and Rs. 6,804 on account of arrears of hakabo for previous years written off during the year. With the exclusion of these items the actual remissions for the year under report amount to Rs. 6,15,588 or Rs. 1,44,231 more than in the previous year. Of this, floods and erosion are responsible for Rs. 3,48,203 as against Rs. 67,955 in the previous year and Rs. 1,02,581, the average of the three preceding years, and deficiency of water for Rs. 1,27,055 or Rs. 1,57,180 less than that of the previous year and Rs. 97,366 less than the average of the last three years. Other important items were damage by insects (Rs. 28,458), damage by locusts (Rs. 12,647), kalar soil (Rs. 10,217), adverse winds (Rs. 27,764) and frost (Rs. 5,857).

6. The outstanding balances at the end of the year aggregated Rs. 2,43,866 (Rs. 1,28,366 in the Right Bank Division and Rs. 1,15,500 in the left Bank) as against Rs. 3,06,212 in the preceding year and Rs. 4,82,254, the average of the past three years. The subject will be discussed in detail in the Land Revenue Administration Report, Part I.

7. The more important items of expenditure on new works are detailed below :—

		Rs.
Desert Canal	... Construction of Inspection bungalows at Manjhi, Sanhri, Hairdin, renewing the roof of the store-room at Kashmore with tiles, etc., providing Taki stones along the Canal and branches, etc....	11,891
Begari Canal	... Widening of the Nurwah and construction of masonry works over it, excavation of a new cut to Mirzawah, etc.	61,561
Canals in the Shikárpur Canals District.	Construction of a regulator in the Adartakio loop over Colonel Fife's channel, raising and strengthening of the left bank of the Rajib canal and construction of a regulator over the Garang canal, etc.	26,512
Canals in the Western Nára District.	Improvements to the Kudanwah and Dhamrao canal ex the Western Nára, Ganjrote ex the Dhamrao canal and construction of regulators over the Ghariwah and Wadhuwah, etc. ...	21,959
Canals in the Katáchi Canals District.	Construction of head regulators over Baghar and Kalri, and regulators over Gungri, Ghari Chandan and Mirza canal extension of Falak Chandan, etc.	81,718
Eastern Nára	... Raising and strengthening the Rata Bund and the Bakhora Bakar Bund, Karia heads on Nara and Mithrao and additions to Public Works Department Inspection bungalow at the head of the Thar canal	18,022
Jamrao Canal	... Construction of bungalows at 6th mile Silore and 23rd mile Puran Minors	9,393
Dad Canal	... Construction of Executive Engineer's bungalow at Nawabshah and Inspection bungalow at Gupchani and Sarhari, etc....	29,026
Nasrat Canal	... Construction of a bungalow and office for the Executive Engineer at Nawabshah and completion of the Inspection bungalows	22,326
Fuleli Canal	... Completion of Inspection bungalows at Pangrio and Serani and the Executive Engineer's bungalow at Hyderabad	15,397
Hyderabad District.	Canals Construction of Executive Engineer's bungalow and office at Hyderabad	23,569

Over and above these a sum of Rs. 2,57,245 was spent on constructing a bund along the boundary of Vazir forest in the Shikárpur Canals District, extending Western Nara bunds, raising and strengthening Manjhand and Nara bunds and on other works in the Right Bank Division. A sum of Rs. 19,955 was also spent in the Left Bank Division on raising and strengthening the Hajipur bund and constructing Mikaro and Tirchi bunds in the Nasrat Canals District.

8. The subjoined statement shows the expenditure on maintenance and repairs during the year as compared with that in the previous year and the average figure of the three preceding years:—

	1913-14.	1912-13.	Average of three years ending 1912-13.
	Rs.	Rs.	Rs.
Right Bank	21,22,503	22,26,159	21,65,614
Left do.	14,83,531	14,47,521	14,40,371

Of this the actual cost of clearance and repairs of "works" was as follows:—

	1913-14.	1912-13.	Average of three years ending 1912-13.
	Rs.	Rs.	Rs.
Right Bank	12,90,559	13,28,738	12,72,951
Left do.	7,52,040	7,18,646	7,12,324

9. The following table shows the area cultivated with the principal crops as compared with the figures of the previous year and the average of the past three years:—

	1913-14.	1912-13.	Average of the three years ending 1912-13.
	Rs.	Rs.	Rs.
Rice	10,82,263	10,67,508	10,94,732
Jowári	5,29,857	5,04,451	4,59,520
Bájri	5,25,831	5,89,107	4,87,625
Cotton	3,24,921	2,80,502	2,94,088
Wheat	3,05,538	3,13,762	3,12,274
Barley	15,742	12,802	14,375
Oil-seeds	2,37,847	1,54,660	1,80,694

R. P. BARROW,
Commissioner in Sind.

To

THE SECRETARY TO GOVERNMENT,
PUBLIC WORKS DEPARTMENT, BOMBAY.

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STATEMENT.

Statement showing cultivated Area and Assessment of Government, Jdgir and Foreign Lands for the year

Year.	GOVERNMENT LANDS.						
	Indus Right Bank Division.			Indus Left Bank Division.			Kharif.
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1911-1912 ...	1,013,852	193,575	1,207,427	1,087,991	204,151	1,292,142	2,101,843
1912-1913 ...	1,152,336	251,293	1,403,629	1,181,915	188,798	1,370,713	2,334,251
1913-1914 ...	1,173,714	333,182	1,506,896	1,184,254	178,601	1,362,855	2,357,968
Average of 3 years ending 1912-1913.	1,123,080	263,266	1,386,346	1,117,925	197,709	1,315,634	2,241,005
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1911-1912 ...	31,53,051	7,44,804	38,97,855	31,71,849	5,92,054	37,63,903	63,24,900
1912-1913 ...	34,08,144	8,73,637	42,81,781	34,06,338	5,47,111	39,53,449	68,14,482
1913-1914 ...	35,31,471	10,48,409	45,79,880	32,80,250	5,10,977	37,91,227	68,11,721
Average of 3 years ending 1912-1913.	34,32,197	9,47,126	43,79,323	32,31,839	5,68,943	38,00,782	66,64,036

Year.	FOREIGN LANDS.					
	Indus Right Bank Division.			Indus Left Bank Division.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1911-1912 ...	25,334	18,144	43,478	.....	.....	.....
1912-1913 ...	36,334	19,381	55,715	.....	.....	.....
1913-1914 ...	56,276	13,160	69,436	.....	.....	.....
Average of 3 years ending 1912-1913.	36,966	20,523	57,489	.....	.....	.....
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1911-1912 ...	65,176	30,763	96,939	.....	.....	.....
1912-1913 ..	48,860	33,942	82,811	.....	.....	.....
1913-1914 ...	60,320	27,207	87,546	.....	.....	.....
Average of 3 years ending 1912-1913.	61,900	35,686	1,00,685	.....	.....	.....

1911-1912, 1912-1913 and 1913-1914, together with the average of the three years ending 1912-1913.

		JAGHİR LANDS.								
Total.		Indus Right Bank Division.			Indus Left Bank Division.			Total.		
Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
<i>ea.</i>										
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
397,726	2,499,569	55,686	13,897	69,583	104,577	15,580	120,157	160,263	29,477	189,740
440,091	2,774,342	66,314	14,423	80,737	114,568	13,855	128,423	180,882	28,278	209,150
511,783	2,869,751	60,981	21,055	82,036	110,299	15,752	126,051	171,280	36,807	208,087
460,975	2,701,980	63,683	18,260	81,943	107,829	15,391	123,220	171,512	33,651	205,163
<i>ment.</i>										
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
13,36,858	76,61,758	19,492	3,459	22,951	51,619	6,829	58,448	71,111	10,288	81,399
14,20,748	82,35,230	21,253	4,926	26,179	50,584	4,283	54,867	71,837	9,209	81,046
15,59,386	83,71,107	20,799	6,868	27,667	48,127	5,143	53,270	68,926	12,011	80,937
15,16,069	81,80,105	20,848	5,594	26,442	49,300	5,862	55,162	70,148	11,456	81,604

GRAND TOTAL.

Indus Right Bank Division.			Indus Left Bank Division.			Total.		
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
<i>ea.</i>								
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1,094,872	225,616	1,320,488	1,192,568	219,731	1,412,299	2,287,440	445,347	2,732,787
1,254,984	285,097	1,540,081	1,296,483	202,653	1,499,136	2,551,467	437,750	3,039,217
1,290,971	367,397	1,658,368	1,294,553	194,353	1,488,906	2,585,524	561,750	3,147,274
1,223,729	302,049	1,525,778	1,225,754	213,100	1,438,854	2,449,483	515,149	2,964,632
<i>ment.</i>								
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
32,40,719	7,79,026	40,19,745	32,23,468	5,98,883	38,22,351	64,64,187	13,77,909	78,42,096
34,78,266	9,12,505	43,90,771	34,56,922	5,51,394	40,08,316	69,35,188	14,63,899	83,99,087
36,12,609	10,82,484	46,95,093	33,28,377	5,16,120	38,44,497	69,40,986	15,98,604	85,39,590
35,18,044	9,88,406	45,06,450	32,81,139	5,74,805	38,55,944	67,99,183	15,63,211	83,62,394

J. W. SMYTH,
Assistant Commissioner in Sind.

**Revenue Report of Irrigation Works in
Sind for 1913-14—Review of**

No. W. I.—5283.

PUBLIC WORKS DEPARTMENT.

Bombay Castle, 4th May 1915.

Letter from the Superintending Engineer, Indus Right Bank Division, No. 7315, dated 15th December 1914.

Submits the Revenue Report for his Division for 1913-14 and makes remarks.

Letter from the Superintending Engineer, Indus Left Bank Division, No. 5920, dated 22nd December 1914.

Submits the Revenue Report for his Division for 1913-14.

Memorandum from the Chief Engineer in Sind, No. C. E.—2155, dated 30th December 1914

Forwards the above Revenue Reports for the Indus Right and Left Bank Divisions and makes remarks.

Memorandum from the Commissioner in Sind, No. W.—74, dated 28th January 1915.

Submits the above with his remarks.

Letter from the Chief Engineer in Sind, No. C. E.—248, dated 23rd February 1915.

With reference to Government Memorandum No. 1834-I., dated 15th February 1915, forwards two statements in connection with the Irrigation Revenue Report, Sind, for 1913-14 therein called for.

RESOLUTION.—The reports by the officers in charge of the Indus Right and Left Bank Divisions have been reviewed by the Commissioner in Sind, and the general results summarised in the statement which accompanied his No. W.—74, dated 28th January 1915.

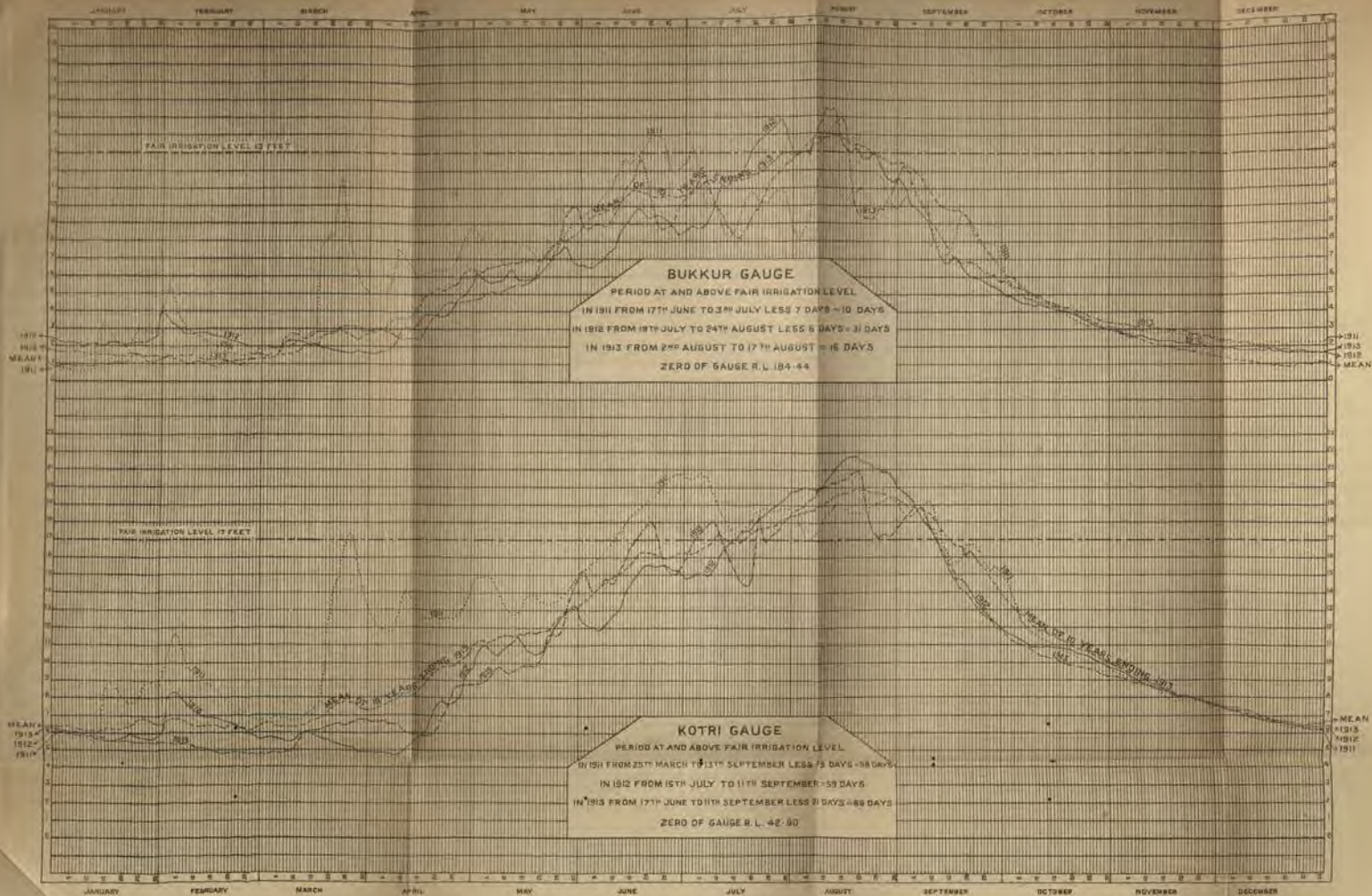
2. The total area irrigated for the year under review and for the five previous years is as follows :—

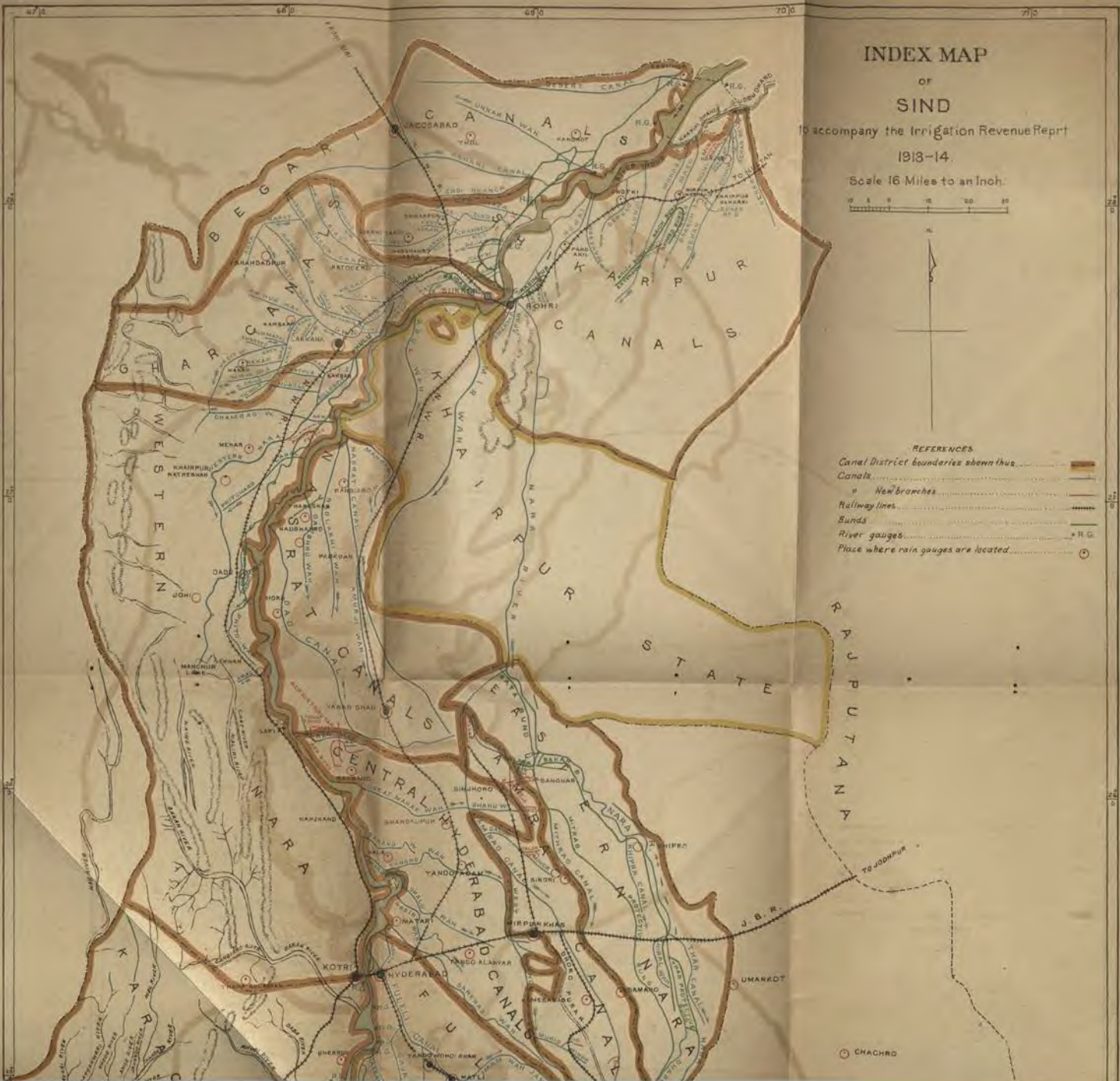
Years.							Area irrigated.
							Acres.
1908-09	...	...	..	...	...	..	3,344,549
1909-10	...	...	...	...	...	...	2,926,915
1910-11	...	...	...	...	...	...	3,121,895
1911-12	...	...	...	...	...	...	2,732,787
1912-13	...	...	...	...	...	...	3,039,217
1913-14	...	...	...	...	...	...	3,147,274

3. The financial results of the year based on actual receipts for all the Irrigation Works in the Province may be thus summarised.

	Gross Revenue.	Working Expenses.	Net Revenue.
	Rs.	Rs.	Rs.
Major Works—Productive	31,79,865	15,20,018	16,59,847
Minor Works and Navigation—Works for which both Capital and Revenue Accounts are kept	23,53,487	7,22,923	16,30,564
Works for which only Revenue Accounts are kept	24,97,505	11,33,791	13,63,714
Agricultural Works	67,287	12,19,408	—11,52,121
Grand Total ...	80,98,144	45,96,140	35,02,004

HYDROGRAPH OF THE RIVER INDUS AT BUKKUR AND KOTRI





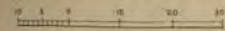
INDEX MAP

OF
SINDH

to accompany the Irrigation Revenue Report

1913-14.

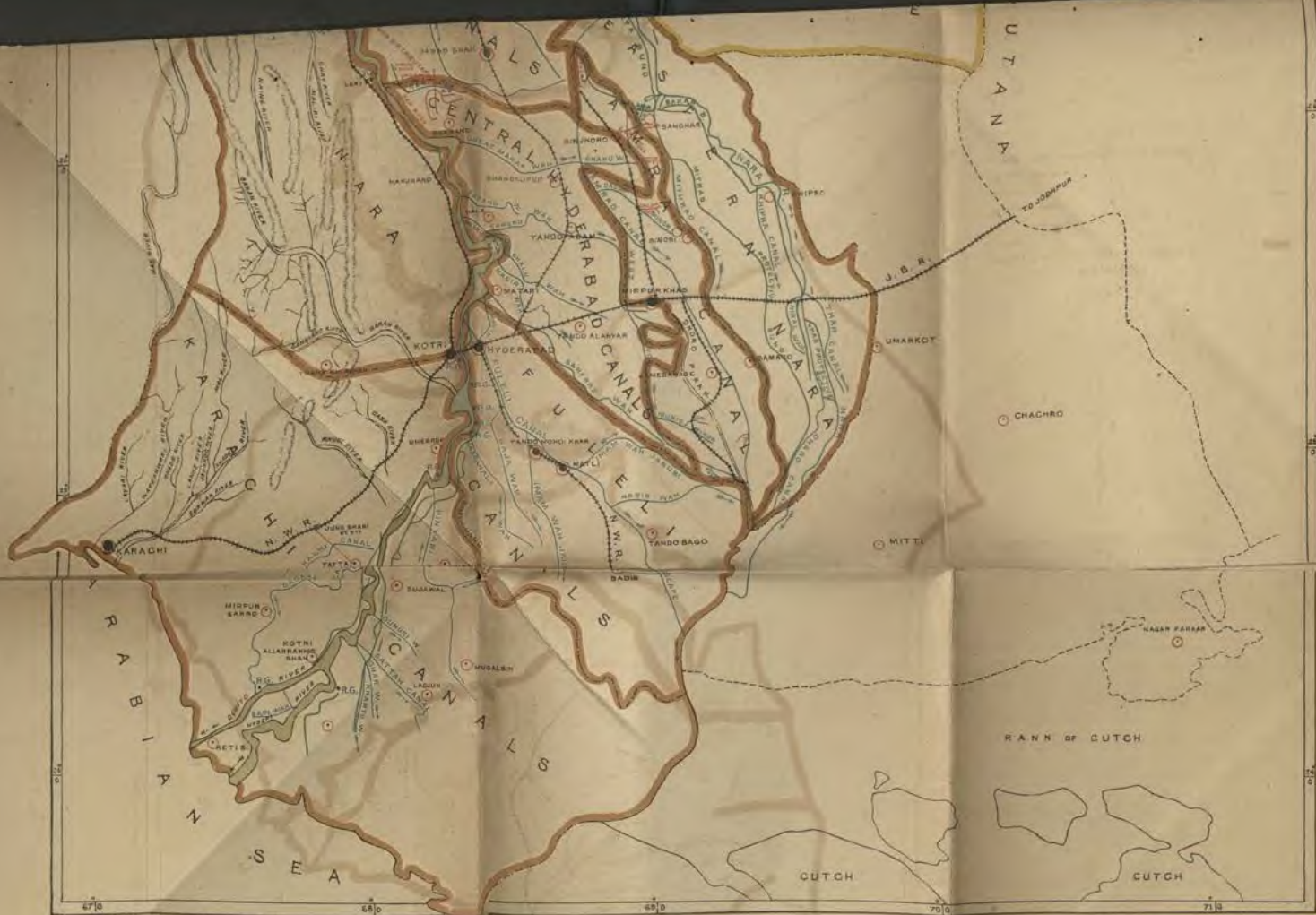
Scale 16 Miles to an Inch.



REFERENCES

- Canal District boundaries shown thus
- Canals
- " New branches
- Railway lines
- Bunds
- River gauges R.G.
- Place where rain gauges are located

CHACHRO



From the PHOTOGRAPHIC OFFICE, POONA, 1878.

Hubertshopp

MAJOR R.E.
 SUPERINTENDING ENGINEER.
 INDUS LEFT BANK DIVISION.
 1. 9. 14.

No. W. I.—5283.

PUBLIC WORKS DEPARTMENT.

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2. The total area irrigated for the year under review and for the five previous years is as follows:—

Years.							Area irrigated.
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1908-09	3,344,549
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3. The financial results of the year based on actual receipts for all the Irrigation Works in the Province may be thus summarised.

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Works for which only Revenue Accounts are kept	24,97,505	11,33,791	13,63,714
Agricultural Works *	67,287	12,19,408	—11,52,121
Grand Total	80,98,144	45,96,140	35,02,004

The minus figure under net revenue against Agricultural Works is due to the cost of maintenance of the Protective River embankments being included under the head—Working Expenses.

4. The information contained in Statement E, included by the Superintending Engineers, in their Divisional Reports under paragraph 13, is grouped together as shown below :—

Total area irrigated by all classes of works.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated (column 2 ÷ column 1.)	Expenditure on Agricultural works (excluding the cost of surveys for special projects.)	Rate of expenditure on Agricultural works per acre of area irrigated (column 4 ÷ column 1.)	Total Working expenses per acre of area irrigated including expenditure on Agricultural works (column 3 + column 5).
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
3,147,274	33,77,249	1'07	11,58,391	0'37	1'44

The whole cost per acre of irrigation in Sind must include as shown above, the expenditure on river embankments as these have to be maintained in order to protect the area of cultivation from floods.

5. The totals of the Financial results for the year under review and the previous five years are as follows :—

	Gross Revenue.	Working expenses.	Net Revenue.
	Rs.	Rs.	Rs.
1908-09	80,39,031	37,65,951	42,73,080
1909-10	78,29,012	40,42,671	37,86,341
1910-11	82,84,130	42,59,535	40,24,595
1911-12	74,19,419	40,32,299	33,87,120
1912-13	79,80,904	43,29,549	36,51,355
1913-14	80,98,144	45,96,140	35,02,004

The net profit 35,02,004 shows a falling off of nearly 1½ lakhs of rupees when compared with the previous year while it shows an increase of more than 1 lakh when compared with 1911-12.

The capital invested in works for which Capital Accounts are kept, up to the end of the year under review, was :—

	Rs.
Major Works	2,68,94,586
Minor Works	48,37,619
	<u>3,17,32,205</u>

The net revenue for the year on the above capital expenditure amounted to Rs. 27,00,551, which is equal to 8.51 per cent. The percentages in the previous years were as follows :—

1910-11	9.12
1911-12	7.25
1912-13	7.51

The Major Works show a return of 5.39 against 4.50 of the last year. The Minor Works—Capital show a return of 25.33 against 24.24 during the previous year.

6. The gross working expenses excluding the cost of surveys for special projects amounted to Rs. 45,35,640 (Rs. 33,77,249 for canals and Rs. 11,58,391 for embankments) against Rs. 42,91,050 in the previous year (Rs. 32,71,017 for canals and Rs. 10,20,133 for embankments) and the rate per acre was 1.44 which is slightly more than that of last year.

7. The average net consolidated assessment per acre on Government land in the Right Bank Division shows an advance from 3.02 to 3.10 rupees. In the Left Bank Division the amount was 2.78 against 2.88 of last year.

8. The estimated value of crops grown is Rs. 7,90,40,036 (£ 5,269,335) as compared with Rs. 7,57,94,009 (£ 5,052,934) the average of the previous five years.

9. The inundation of 1913 was not particularly good. The Bukkur 13 feet level was maintained for 16 days only against an average of 43 days in the previous ten years, but the Kotri level was maintained for the average period of 66 days. The rainfall for the year, however, was both abnormally heavy and opportune, and this largely made up for the deficiency of canal water and greatly helped the crops in the northern Sind, though in the south of Sind it did considerable damage by flooding low-lying lands. The area cultivated and the gross revenue realized therefore showed better results than those of last year which was also a year of poor inundation. Though the rainfall during the year was very heavy, no serious breaches occurred in the bunds. In consequence of threatened erosion, work was however resumed on the Unharwah loop, and a new loop had also to be made from mile 4/6 to mile 7/4 of the Sukkur Begari Bund. In the Karachi Canals District, where numerous breaches occurred last year, the work of raising and strengthening of bunds to 4 feet above the highest recorded flood level was proceeded with.

10. The officers in Sind are thanked for their efficient administration of the canals.

11. A project for making a protective bund to divert the Ghotki flood water from the Eastern Nara Supply Channel has been received from local officers and submitted to the Government of India for sanction.

12. Copies of the Report and of this Review should be forwarded to the Government of India and the Secretary of State.

W. N. CARTLAND,
Under Secretary to Government,
Irrigation and Railways.

To

The Revenue Department, Secretariat.
The Political Department, Secretariat.
The Commissioner in Sind.
The Director of Agriculture.
The Settlement Commissioner and Director of Land Records.
The Chief Engineer in Sind.
The Superintending Engineer, Indus Right Bank Division.
The Superintending Engineer, S. D.
The Superintending Engineer, C. D.
The Superintending Engineer, N. D.
The Superintending Engineer, Deccan Irrigation Division.
The Superintending Engineer, Indus Left Bank Division.
The Accountant General, Bombay.
All Executive Engineers in Sind.
The Government of India.
The Under Secretary of State for India. } (By letter).

With copies of the Revenue
Report referred to.

Class A.

Exd. C. S. P.

No. of 1915.

Copy forwarded for information and guidance to

