

Irrigation Revenue Report,

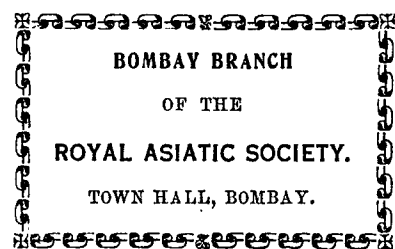
Sind

1909-10, 1910-11; 1913-14



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ANNUAL IRRIGATION REVENUE REPORT,

**SIND,**

1909-1910.

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# INDEX.

	PAGE
Letter from the Superintending Engineer, Indus Right Bank Division	1
General review of the results for the Indus Right Bank Division	3 to 15
Letter from the Superintending Engineer, Indus Left Bank Division	17
General review of the results for the Indus Left Bank Division	19 to 32
Memorandum from the Chief Engineer in Sind No. C. E.—51, dated 17th January 1911	32
Table I.—Cultivation and water share of net consolidated revenue for 1909-1910 and three previous years	33 & 34
Table II.—Area of cultivation and canal revenue for 1909-1910 and five previous years	35
Table III.—Area of cultivation and canal revenue for 1909-1910	36 to 38
Table III-A.—Area of Jágghir cultivation in Sind and Foreign lands in Khelát, the assessment for 1909-1910, total for collection, actual realizations, and balances outstanding at the end of the year	39 & 40
Table IV.—Revenue expenditure on new works, maintenance and repairs, and revenue collection charges in the Civil Department and establishment charges of the Public Works Department for 1909-1910	41 to 43
Table V.—Cultivation, canal revenue and expenditure for 1909-1910, as contrasted with the average of three previous years	44 & 45
Table VI.—Direct and indirect receipts of canal revenue for 1909-1910	46 to 48
Table VII.—Area of cultivation and revenue for 1909-1910, Government land, and comparative statement showing increases and decreases under heads Kharif and Rabi and irrigation share of net consolidated assessment for 1908-1909 and 1909-1910	49 to 55
Table VII-A.—Statement showing receipts from sale of occupancy rights	56 to 58
Table VIII.—Abstract of crop return for five years ending 1909-1910 for Government, Jágghir and Foreign lands	59 to 67
Table IX.—Rainfall in the province of Sind for 1909-1910	68
Memorandum showing amount of loss to canals on account of difference between assessments of water-rates on Jágghir lands in Sind and Foreign lands in Khelát and the assessments at the ordinary rates in force for Government lands	69
Statement I-A.—Statements of canals in Sind	72 to 75
Statement I-B.—Capital account of Irrigation Works in Sind for, and to the end of, 1909-1910	76 & 77
Statement I-C.—Showing the financial results of the irrigation works in Sind for the year ended 31st March 1910. Realizations under main heads of revenue and working expenses	78 & 79
Statement II-C.—Showing the financial results of irrigation works in Sind based on actual receipts. Principal results of operations for the year ended 31st March 1910	80
Statement III-C.—Demands and realizations during the year 1909-1910 in Sind	81
Statement IV-C.—Showing the financial results of irrigation works in Sind for 1909-1910 based on assessments. Principal results of operations for the year ended 31st March 1910	82 & 83
General abstract of financial results of irrigation works in Sind for and up to end of 1909-1910	84 to 91
Statement showing actual receipts for 1909-1910 on account of irrigation share of land-revenue from canals in Sind	92
Statement I-E.—Showing areas irrigated and average discharge of certain works in Sind during 1909-1910	94 & 95
Statement II-E.—Showing incidence of working expenses and assessed revenue on certain canals during 1909-1910	96
Statement III-E.—Showing quantity and value of crops irrigated in Sind during 1909-1910	97 to 104
Statement IV-E.—Comparative statement of irrigation and rainfall for years 1908-1909 and 1909-1910 in Sind	105 to 109
Statement of highest readings on Bukkur and Kotri gauges from 1880 to 1909	110
Memorandum from the Commissioner in Sind, No. W.-283, dated 25th April 1911	111 to 117
Hydrograph of the River Indus at Bukkur and Kotri.	
Index Map of the Indus Right and Left Bank Divisions.	
Government Resolution reviewing the Report.	





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
Irrigation—					Average for 5 years, including 1908.		
					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
Gross Irrigation Revenue realized...					Rs.	Rs.	Rs.
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 in- cluding 1908-1909.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif ...	409,831	313,284	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.	MINOR WORKS AND NAVIGATION.					Grand Total.
	MAJOR WORKS.					
	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
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1909-1910 ... { Kharif ...	394,965	296,567	530,106	19,740	846,413	1,241,378
... { Rabi ...	170,737	40,138	133,150	11,101	184,389	355,126
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.	
	2	3	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Average of 5 years { Kharif ...	9,18,685	9,98,237	15,63,189	49,412	26,10,838	35,22,523
including 1908-1909. { 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 ...	9,86,503	10,07,571	15,92,626	48,773	26,48,970	36,35,478
... { Rabi ...	5,78,361	2,38,963	5,83,313	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	9,93,397	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	11,48,926	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	...	...	...	9.54	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 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.

Expenditure on maintenance and repairs and Establishment charged to Works.

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

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

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.

Expenditure on maintenance separately for canals and river embankment.

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.

Outlay on new works.

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

	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	4,30,429



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.

The total is made up as under :—

	Rs.	Percentage on outlay.
Executive ... ..	4,06,762	21·7
<i>Direction.</i>		
Superintending Engineer ... ..	30,281	
Secretariat and Accounts ... ..	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 :—

#### 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	3,42,831	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	15,08,723	17,04,517	...	—1,95,794
Minor works for which only Revenue Accounts are kept ... ..	19,14,810	5,68,664	13,45,646	...	13,45,646	13,04,822	...	—40,176
Agricultural Works ... ..	81,000	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	5,40,757	...	—4,95,452
1908-1910 ... ..	41,48,310	25,78,427	18,19,883	2,25,855	15,44,028	22,85,274	—6,91,246	
1908-1909 ... ..	47,04,720	21,95,918	25,08,802	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. 1,596,504	Rs. 12,34,386	Rs. ·77	Rs. 13,11,743	Rs. ·82	Rs. 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 Khariorwah *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	868,372	870,375	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  $\Delta$  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. 7,839 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. 3,654 against Rs. 3,769 in the last year.

The principal crops grown were Juári 77,459 acres, rice 62,854, Bájri 19,005, wheat 12,016 and oil-seeds 15,627 acres.

24.

*D.—Máhiwah.*

*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, Lándhis 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. 2,11,570 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 :—

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
			Mr. C. M. Lane	...	1	4
Ghár Canals	...	{	Mr. D. R. Sawhney	...	1	2
			Mr. P. L. Bowers	...	5	4
			Mr. C. M. Lane	...	3	18
Western Nára	...		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.
<i>Gauges—</i>							
Bukkur, 10 feet and over ...	...	...	...	...	97	75	65
" 13 " " ...	...	...	...	...	44	59	31
Kotri, 14 " " ...	...	...	...	...	98	121	120
" 17 " " ...	...	...	...	...	46	79	60
<i>Irrigation—</i>					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	1,502,324	1,330,411
Gross Revenue ...	...	...	...	Rs.	33,16,011	33,34,316	34,30,707
Working Expenses ...	...	...	...	"	13,46,809	16,63,157	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.	
Average of 5 years including 1908-09.		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
{ Kharif ...		536,841	430,733	234,737	...	665,470	1,202,311
{ Rabi ...		193,327	62,471	23,213	.....	85,684	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	—8,091	.....	—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
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Average of 5 years (Kharif ...	13,80,317	9,50,612	5,33,671	.....	14,84,283	28,64,600
including 1908-09. { Rabi ..	4,90,005	1,21,664	68,523	.....	1,90,187	6,80,192
Total ..	18,70,322	10,72,276	6,02,194	.....	16,74,470	35,44,792
1908-09 ... { Kharif ...	15,96,756	10,22,741	5,81,518	.....	16,04,259	32,01,015
{ Rabi ..	3,36,664	1,06,943	1,02,846	.....	2,09,789	5,46,453
Total ..	19,33,420	11,29,684	6,84,364	.....	18,14,048	37,47,468
1909-10 ... { Kharif ...	13,96,919	10,28,849	5,75,918	.....	16,04,767	30,01,686
{ Rabi ..	3,31,331	1,09,596	73,661	.....	1,83,257	5,14,588
Total ..	17,28,250	11,38,445	6,49,579	.....	17,88,024	35,16,274
Increase or decrease { Kharif ...	+16,602	+78,237	+42,247	.....	+1,20,484	+1,37,086
as compared with { Rabi ...	-1,58,674	-12,068	+5,138	.....	-6930	-1,65,604
average. Total ..	-1,42,072	+66,169	+47,385	.....	+1,13,554	-28,518
Increase or decrease { Kharif ...	-1,99,837	+6,108	-5,600	.....	+508	-1,99,329
as compared with { Rabi ...	-5,333	+2,653	-29,185	.....	-26,532	-31,865
1908-09. 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.
	Rs.	Rs.
Major works—Productive ...	3.06	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	68,866	82,153	34,30,707	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.

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
<b>Total</b>	<b>13,48,662</b>

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.

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.

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

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

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.

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

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, 1909-1911.	Net profit, 1909-1910.	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	2,45,428	+1,56,320	...
Minor Works for which Capital and Revenue Accounts are kept ... ..	10,98,310	3,61,052	7,32,257	...	7,82,267	7,31,422	+508	...
Total ... ..	28,21,068	10,63,053	17,58,015	6,24,000	11,84,015	9,76,850	+2,07,165	...
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	2,30,385	-2,29,743	...	-2,29,743	-1,74,904	...	-54,839
1909-1910 ... ..	34,30,707	14,60,425	19,40,282	6,24,000	13,16,282	11,45,068	+1,70,214	...
1908-1909 ... ..	33,34,816	15,68,187	17,71,759	6,25,163	11,46,596	...	...	...
Increase or decrease ... ..	+95,891	-72,732	+1,69,123	-1,163	+1,70,214	...	+1,70,214	...

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 ...	367,130	367,134	340,163	324,175	+26,966	+42,959
	Jowári ...	74,484	89,424	113,908	151,439	-13,475	-37,581
	Bajri ...	332,156	91,300	423,456	490,333	-27,916	-66,877
	Cotton ...	110,918	86,267	197,185	252,595	-46,473	-55,410
	Other crops ...	22,929	18,180	41,109	39,077	+2,121	+2,032
Total ...		540,491	602,301	1,142,792	1,201,569	-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	69,044	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	-99,176	-61,874
Grand Total ...		556,970	804,445	1,361,415	1,519,368	-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 Ihar 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
Bājri	...	...	...	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, bājri 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.
Bājri	...	...	...	40,024
Jowāri	...	...	...	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 7,321 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 32,805 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.
Bājri	...	...	...	...	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 Bhorthi 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 Bhorthi 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 Bhorthi 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
Jámráo 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
<b>MAJOR WORKS.</b>										
<b>PRODUCTIVE WORKS.</b>										
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>										
<i>Canals in Operation.</i>										
Begári Canals { Desert Canal ... ..	119,920	2,68,622	75,749	1,49,247	124,168	2,65,680	106,612	2,27,483	116,416	2,32,613
District. { Unharwah ... ..	75,823	1,75,874	68,009	1,56,475	81,001	1,84,319	73,878	1,72,223	79,373	1,51,847
{ Begári Canal ... ..	211,855	5,25,019	213,991	5,78,979	231,566	5,94,395	216,304	5,67,131	187,519	5,26,095
Total ...	407,598	9,72,515	357,749	8,84,711	428,535	10,44,394	397,794	9,67,217	387,307	9,39,715
Shikárpur Canals District ... Mahiwhá	61,844	2,22,439	69,196	1,82,248	89,993	2,41,748	80,378	2,15,478	75,694	2,03,615
Jámráo Canal District ... Jámráo Canal ...	242,430	6,80,158	203,332	5,81,946	202,045	5,48,869	216,632	6,13,667	171,255	4,89,012
Northern Hyderabad Canals { Dád Canal ... ..	84,706	2,17,332	82,400	1,84,304	100,807	2,07,657	94,501	2,21,184	90,433	2,55,674
District. { Nasrat Canal ... ..	133,579	2,71,608	83,471	1,80,631	119,372	3,11,002	115,474	2,54,424	84,041	2,53,443
Total ...	228,285	4,88,940	175,871	3,65,055	225,979	5,78,659	210,065	4,77,558	183,104	5,09,157
Eastern Nára { Nára Supply Channel ... ..	9,419	25,492	6,007	14,391	10,196	21,747	8,561	21,523	3,435	8,998
District. { Eastern Nára ... ..	135,213	1,95,048	32,940	44,747	85,195	1,14,099	84,449	1,18,136	30,300	50,438
{ Mithrao Canal ... ..	139,766	3,12,044	100,440	2,64,032	104,166	2,70,513	116,121	2,95,106	99,193	2,86,109
{ Tbar Canal ... ..	52,985	1,29,917	44,036	1,30,692	44,830	1,36,717	47,266	1,36,125	45,754	1,43,493
{ Khipra Canal ... ..	7,918	10,189	3,714	5,077	4,078	5,408	6,236	6,390	5,589	8,713
{ Heran Canal ... ..	2,605	5,765	1,678	3,546	1,077	2,138	1,753	3,813	1,188	2,555
{ Hirai Canal ... ..	22,471	35,000	13,818	37,704	15,478	43,613	17,100	38,941	15,829	42,189
Total ...	370,277	7,44,060	202,273	5,09,023	268,946	6,00,085	280,512	6,19,923	217,347	5,09,841
Total, Major Works ...	1,330,334	31,08,730	1,010,181	25,23,013	1,215,538	30,19,765	1,189,351	28,83,833	1,024,747	26,02,210
<b>43.—MINOR WORKS.</b>										
<b>IRRIGATION AND NAVIGATION.</b>										
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>										
<i>Canals in Operation.</i>										
Ghár Canals Dis- { Sukkur Canal ... ..	87,493	2,63,045	79,694	2,37,091	93,315	2,73,013	86,795	2,54,323	86,409	2,50,251
trict. { Ghár Canal ... ..	271,609	8,87,900	200,410	6,17,221	268,014	8,17,917	239,710	7,74,316	220,715	7,34,324
Total ...	359,101	11,51,745	280,104	8,54,312	361,349	10,91,930	326,511	10,32,039	307,264	9,84,575
Karáchi Canals { Suttah Canal ... ..	14,453	85,193	14,444	20,414	16,911	23,542	15,283	20,347	10,253	37,911
District. { Alibhar Kacheri ... ..	10,821	23,248	9,795	21,757	10,311	23,548	10,112	22,404	10,400	25,270
Central Hyder- { Mávrak ... ..	56,673	1,50,022	54,276	1,30,061	68,307	1,51,710	56,419	1,41,131	63,803	1,39,508
abad Canals { Sartraz ... ..	27,264	59,132	25,833	61,045	30,731	61,201	27,943	56,266	27,802	55,246
District. Total ...	94,258	2,30,342	89,004	2,08,068	99,349	2,39,549	94,604	2,26,251	91,655	2,29,020
Fuleli Canals { Fuleli Canal ... ..	344,193	8,00,413	241,527	6,04,891	304,622	7,07,004	311,447	7,04,246	305,096	7,29,900
District. { Hasanali Canal ... ..	19,244	17,926	13,306	31,817	16,244	3,694	16,278	30,142	16,940	43,304
Total ...	363,437	8,18,339	254,833	6,36,708	321,066	7,44,698	327,725	7,34,378	322,036	7,73,204
Total, Minor Works, Capital and Revenue Accounts ...	831,240	22,42,020	684,305	17,32,277	802,545	20,99,069	7,74,083	20,24,055	737,269	20,24,870
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>										
<i>Canals in Operation.</i>										
Shikárpur Canals { Canals in Rohri ... ..	51,271	1,64,790	42,166	1,24,073	50,616	1,38,339	51,014	1,59,370	47,240	1,53,695
District. { Sind Canal ... ..	89,881	3,04,609	66,611	2,20,133	90,040	3,01,705	82,161	2,75,493	62,956	2,15,912
{ Rajhi Canal ... ..	9,658	36,482	8,613	33,093	9,776	37,874	9,299	36,096	8,262	33,604
{ Chitti Canal ... ..	10,613	40,725	10,774	41,080	11,464	44,360	10,817	42,033	8,920	36,209
{ Garang Canal ... ..	6,983	22,549	6,200	21,901	6,012	22,297	6,098	22,249	4,613	17,281
Total ...	167,386	5,69,164	131,434	4,41,990	178,708	5,94,515	169,509	5,31,223	131,791	4,57,071
Western Nára { 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
District. { New Feeder, Western Nára ... ..	1,641	5,476	1,186	3,916	1,647	5,611	1,455	5,011	1,430	5,325
{ Wahur ... ..	2,140	7,614	2,203	6,557	2,555	7,681	2,412	7,244	2,453	7,210
{ Marvi ... ..	5,331	14,755	3,056	9,449	5,752	14,722	4,913	12,775	4,623	12,528
{ Pritchard Canal ... ..	9,620	29,240	9,141	26,929	10,942	32,916	9,919	21,795	9,329	30,661
{ Dádu Canals ... ..	10,284	23,940	6,809	13,650	12,150	28,402	9,746	22,030	9,754	22,185
{ Manchar ... ..	22,338	53,848	11,804	32,261	15,578	36,175	16,572	40,775	11,144	30,466
{ Aral ... ..	7,535	20,611	5,034	14,219	11,064	31,522	7,874	22,064	8,635	23,513
{ Other Canals, north of Kotri ... ..	12,146	28,437	9,021	17,563	10,779	25,746	10,649	24,929	11,447	28,049
{ Phitta Canal ... ..	5,612	13,213	5,211	11,339	6,372	14,733	5,698	13,065	4,974	10,507
Total ...	329,067	10,26,481	272,017	8,43,093	329,353	10,15,277	309,812	9,61,617	264,189	9,28,959
Northern Hy- { Mehrahwah ... ..	14,257	33,590	10,664	21,025	13,441	33,580	12,927	30,401	12,594	27,953
derabad Canals { Naulakhi ... ..	46,177	1,24,357	32,979	78,267	51,977	1,40,916	48,711	1,14,520	46,907	1,26,245
District. { Dámro ... ..	13,683	35,866	12,199	31,260	12,932	34,007	12,955	33,741	13,648	34,119
{ Other Canals ... ..	10,274	24,822	8,859	20,946	11,581	28,303	10,238	24,710	10,063	24,549
Total ...	84,391	2,18,635	64,721	1,54,518	90,381	2,36,965	78,931	2,03,372	82,912	2,12,826
Central Hyder- { Ghazro Mahmudo ... ..	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
abad Canals { Kari Shumali ... ..	30,410	65,638	27,013	55,000	30,963	68,567	29,469	61,069	28,352	64,807
District. { Nasir ... ..	33,872	76,230	32,019	70,235	36,145	85,150	34,012	77,233	32,263	75,656
{ Renwah ... ..	3,231	7,107	675	1,487	852	1,997	1,587	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	3,15,043	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
<b>—MINOR WORKS—concluded.</b>	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.
<b>IRRIGATION AND NAVIGATION—concluded.</b>										
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.</b>										
<i>Canals in Operation—concluded.</i>										
<b>Sind Canals District—Other Canals ...</b>	29,315	32,135	18,035	41,381	21,829	46,584	23,060	89,993	21,396	57,485
<b>Indus Canals District—</b>										
Canals in Tatta, &c....	15,120	18,707	11,095	17,959	15,043	8,226	13,752	14,964	10,895	19,051
Katri ...	17,167	31,423	13,497	25,494	17,928	25,758	16,196	27,558	17,441	36,783
Baghar ...	32,325	52,845	25,916	36,203	32,485	46,142	30,342	45,064	32,514	57,131
Uchito ...	13,991	19,741	12,411	16,455	13,565	17,888	13,322	18,028	14,775	21,275
Pinyari ...	89,054	2,09,162	73,018	1,65,271	90,765	1,65,163	84,279	1,76,532	81,804	2,16,547
Canals in Mirpur Bathoro ...	13,153	35,699	11,468	24,360	11,570	30,227	12,164	30,085	12,754	34,505
Canals in Sujawal ...	8,964	22,532	8,482	18,154	12,803	9,246	9,914	16,637	10,347	26,301
Canals in Jati ...	2,662	7,202	2,230	5,941	2,769	6,144	2,464	6,429	3,387	7,920
Khanto ...	5,271	11,074	4,497	8,890	4,736	7,933	4,835	9,299	5,142	11,469
Canals in Shahbandar ...	1,716	8,817	1,613	3,013	1,895	1,941	1,732	2,924	2,076	4,679
Kokawari ...	16,483	36,984	13,821	25,158	15,085	29,436	14,963	30,526	15,747	34,674
<b>Total ...</b>	<b>215,900</b>	<b>4,49,156</b>	<b>177,548</b>	<b>3,46,898</b>	<b>218,442</b>	<b>3,38,084</b>	<b>203,963</b>	<b>3,78,046</b>	<b>206,632</b>	<b>4,69,244</b>
<b>Total, Minor Works, Revenue Accounts only...</b>	<b>961,939</b>	<b>26,10,975</b>	<b>787,593</b>	<b>20,97,511</b>	<b>973,431</b>	<b>25,54,107</b>	<b>907,654</b>	<b>24,20,864</b>	<b>855,185</b>	<b>24,30,370</b>
<b>AGRICULTURAL WORKS.</b>										
<b>WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.</b>										
<b>Begari Canals District—</b>										
Kashmor Bund ...	8,002	18,714	8,846	17,381	8,927	17,969	8,525	18,021	6,974	13,532
<b>Shikarpur Canals District—</b>										
Bunds in Rohri ...	...	...	...	...	...	...	...	...	...	...
Shikarpur-Begari Bund ...	9,162	33,054	7,012	24,565	8,949	31,816	8,341	29,912	5,203	19,044
Kasimpur Bund ...	3,677	11,912	2,361	7,135	3,079	9,426	3,086	9,461	1,089	3,470
<b>Total ...</b>	<b>12,839</b>	<b>44,966</b>	<b>9,363</b>	<b>31,700</b>	<b>11,928</b>	<b>41,242</b>	<b>11,377</b>	<b>39,363</b>	<b>6,292</b>	<b>22,514</b>
<b>Ghar Canals District—</b>										
Ghar Bunds ...	1,256	4,349	585	2,251	1,166	4,013	999	3,537	1,193	4,316
<b>Western Nara Canals District—</b>										
Nara Bunds ...	5,967	18,547	3,425	10,794	5,178	15,637	4,857	15,059	2,466	8,786
Bunds, north of Kotri ...	1,024	2,518	366	492	561	1,435	650	1,478	770	2,174
<b>Total ...</b>	<b>6,991</b>	<b>21,065</b>	<b>3,791</b>	<b>11,276</b>	<b>5,739</b>	<b>17,272</b>	<b>5,507</b>	<b>16,537</b>	<b>3,236</b>	<b>10,960</b>
<b>Karachi Canals District—</b>										
Bunds, Right Bank ...	5,591	9,010	4,558	8,446	5,812	4,166	5,330	7,207	5,490	9,608
Bunds, Left Bank ...	4,195	10,614	3,097	3,199	8,617	4,123	3,037	5,946	4,058	11,037
<b>Total ...</b>	<b>9,786</b>	<b>19,624</b>	<b>7,655</b>	<b>11,645</b>	<b>9,429</b>	<b>8,189</b>	<b>8,367</b>	<b>13,153</b>	<b>9,548</b>	<b>20,645</b>
<b>Total, Agricultural Works ...</b>	<b>38,874</b>	<b>1,08,717</b>	<b>80,070</b>	<b>74,253</b>	<b>37,179</b>	<b>88,685</b>	<b>35,375</b>	<b>80,561</b>	<b>27,243</b>	<b>71,967</b>
<b>Indus Right Bank Division—</b>										
Begari Canals District ...	415,400	9,91,229	368,095	9,02,122	437,462	10,62,363	409,319	9,85,238	394,281	9,53,247
Shikarpur Canals District ...	262,169	8,36,569	212,993	6,55,938	278,629	8,77,605	251,264	7,90,004	213,777	6,83,100
Ghar Canals District ...	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
Western Nara District ...	3,5,058	10,47,546	278,808	8,54,369	335,092	10,32,549	315,319	9,78,164	287,416	9,39,919
Karachi Canals District ...	240,139	5,03,975	199,717	3,87,957	244,812	3,69,825	228,223	4,20,586	235,633	5,27,800
<b>Total ...</b>	<b>1,613,123</b>	<b>45,35,412</b>	<b>1,344,282</b>	<b>38,56,939</b>	<b>1,658,500</b>	<b>44,38,125</b>	<b>1,538,635</b>	<b>42,10,168</b>	<b>1,439,584</b>	<b>41,01,857</b>
<b>Indus Left Bank Division—</b>										
Jamrao Canal District ...	242,430	8,80,156	205,332	5,91,046	202,045	5,48,889	216,902	6,03,657	171,255	4,89,012
Eastern Nara District ...	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
Northern Hyderabad Canals District ...	312,678	7,07,595	240,652	5,19,573	316,980	8,15,624	289,886	6,80,930	266,016	7,21,982
Central Hyderabad Canals District ...	231,138	5,45,746	210,742	4,78,594	236,067	5,62,251	225,983	5,28,864	219,729	5,24,806
Fulci Canals District ...	392,752	8,56,873	312,948	6,80,979	346,735	7,91,262	350,785	7,76,371	343,432	8,80,749
<b>Total ...</b>	<b>1,549,273</b>	<b>35,35,030</b>	<b>1,171,967</b>	<b>27,70,115</b>	<b>1,370,193</b>	<b>33,24,091</b>	<b>1,363,778</b>	<b>32,09,745</b>	<b>1,207,819</b>	<b>31,17,390</b>
<b>Grand Total, Sind ...</b>	<b>3,162,396</b>	<b>80,70,442</b>	<b>2,516,149</b>	<b>64,27,654</b>	<b>3,028,693</b>	<b>77,62,216</b>	<b>2,902,413</b>	<b>74,19,903</b>	<b>2,644,393</b>	<b>72,19,247</b>

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.	Miscella- neous.	Total, Canal Revenue.	
	Government.	Jágíir.	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	75,841	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	1,09,806	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.	Hakābo.	Miscellaneous.	Total Canal Revenue.
	Government.	Jāghīr.	Total.				
1	2	3	4	5	6	7	8
<b>MAJOR WORKS.</b>	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.
<b>PRODUCTIVE WORKS.</b>							
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>							
<i>Canals in Operation.</i>							
Begāri Canals District. { Desert Canal ... ..	119,415	57,898	177,308	2,32,613	1,00,252	1,522	3,34,387
Unharwāh ... ..	79,373	70	79,443	1,81,007	296	662	1,81,965
Begāri 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
Shikārpur Canals District ... Mahiwāh ...	75,694	2,506	78,200	2,03,515	1,204	4,816	2,09,535
Jāmrao Canal District ... Jāmrao Canal ...	171,255	2,850	174,105	4,89,012	1,245	18,993	5,09,250
Northern Hyderabad Canals { Dād Canal ... ..	99,423	8,398	107,821	2,55,674	3,596	3,038	2,62,308
District. { 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 Nāra District. { Nāra Supply Channel ... ..	3,435	1,949	5,384	8,906	211	515	9,632
Eastern Nāra ... ..	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
<b>MINOR WORKS.</b>							
<b>IRRIGATION AND NAVIGATION.</b>							
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>							
<i>Canals in Operation.</i>							
Ghār Canals District ... { Sukkur Canal ... ..	86,499	3,471	89,970	2,59,251	1,383	2,695	2,63,329
Ghār 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
Karāchi Canals District. Sattah Canal ...	16,253	149	16,402	37,911	76	785	38,772
Central Hyderabad { Alibhar Kacheri ... ..	10,800	1,217	12,017	25,276	401	229	25,906
Canals District, { 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
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>							
<i>Canals in Operation.</i>							
Shikārpur 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	53	117	34,434
Chitti Canal ... ..	8,820	798	9,618	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.	Miscella- neous.	Total Canal Revenue.
		Government.	Jágífr.	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.								
Canals in Operation—concluded.								
Western Nára Dis- trict.	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	38,131
	Aral ... ..	8,695	1,419	10,114	23,512	685	96	24,293
	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
	Naulákhi ... ..	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 Mahmudo ... ..	61,340	14,678	76,018	1,50,048	5,656	1,335	1,57,039
	Kari Shumáli ... ..	28,362	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 Dis- trict.	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	7,829	...	61	7,881
	Khanta ... ..	5,142	53	5,195	11,499	15	123	11,637
	Canals in Sháhbándar ... ..	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.	Jāzhr.	Total.				
1	2	3	4	5	6	7	8
<b>MINOR WORKS—concluded.</b>	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.
<b>AGRICULTURAL WORKS.</b>							
<b>WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.</b>							
Begári Canals District—Káshmor Bund ...	6,974	...	6,974	13,532	...	2,330	15,862
Shikárpur Canals District. { Bunds in Rohri ...	...	...	...	...	...	186	186
Shikárpur Canals District. { Sukkur-Begári Bund ...	5,208	3,035	8,238	19,044	...	1,150	20,194
Shikárpur Canals District. { 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	8,786	...	541	9,327
Western Nára District. { 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
Karáchi Canals District. { Bunds in Left Bank ...	4,058	142	4,200	11,037	182	199	11,418
Karáchi Canals District. { 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
Northern Hyderabad Canals District. { Nasrat Canal ...	...	...	...	...	...	524	524
Northern Hyderabad Canals District. { Canal Chowkey at Dowlatpur ...	...	...	...	...	...	93	93
Northern Hyderabad Canals District. { Other Miscellaneous Receipts ...	...	...	...	...	...	3	3
Northern Hyderabad Canals District. { 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
Fuleli Canals District. { 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
Indus Right Bank Division. { Shikárpur Canals District ...	213,777	23,317	237,094	6,93,100	7,865	10,157	7,01,122
Indus Right Bank Division. { Ghár Canals District ...	308,457	13,187	321,644	9,97,791	6,955	13,472	10,18,218
Indus Right Bank Division. { Western Nára District ...	287,416	14,881	302,297	9,39,919	8,349	24,712	9,72,980
Indus Right Bank Division. { Karáchi Canals District ...	232,633	8,360	240,993	5,27,800	3,072	11,639	5,42,511
Indus Right Bank Division. { 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
Indus Left Bank Division. { Eastern Nára District ...	207,387	5,851	213,238	5,50,341	3,362	20,212	5,74,415
Indus Left Bank Division. { Northern Hyderabad Canals District ...	266,016	13,291	279,307	7,21,982	4,024	8,033	7,34,039
Indus Left Bank Division. { Central Hyderabad Canals District ...	219,720	36,451	256,170	5,24,806	14,146	5,327	5,44,279
Indus Left Bank Division. { 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	68,866	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 Jāghir 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 Total for collection.	Actual Realiza-tions.	Balance out-standing at end of year.		
	Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.						
1	2	3	4	5	6	7	8	9	10	11	12		
MAJOR WORKS.													
PRODUCTIVE WORKS.													
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.													
Canals in Operation.													
Begāri Canals District.	Kheilat Lands Foreign.	Desert Canal ...	33,193	22,493	55,685	47,658	52,733	38,769	91,502	...	1,31,120	1,00,004	38,945
		Begāri Canal ...	22,176	2,358	24,534	9,056	22,176	3,062	25,238	...	31,281	80,079	1,205
		Total ...	55,369	24,850	80,219	55,714	74,909	41,831	1,16,740	...	1,72,444	1,80,083	39,150
		Desert Canal ...	1,801	407	2,208	117	218	32	251	...	398	244	120
		Unharwah ...	15	55	70	387	157	91	247	...	634	506	338
Shikārpur Canals District—Māhiwah.	Begāri Canal	...	13,595	4,103	17,698	6,380	4,732	2,005	6,890	...	19,270	10,311	2,969
		Total ...	15,411	4,665	19,976	6,884	5,167	2,321	7,388	...	14,272	10,845	3,427
		Jāmrao Canal District—Jāmrao Canal.	1,091	1,415	2,506	1,224	478	566	1,044	...	2,208	1,204	1,004
		Northern Hyderabad Canals District.	2,083	767	2,850	2,395	1,045	412	1,447	...	3,842	1,215	2,597
		Dād Canal ...	6,808	1,790	8,598	3,135	2,388	590	2,947	...	5,982	3,690	2,386
Eastern Nara District.	Nasrat Canal	...	292	112	404	482	116	22	138	...	-344	-311	-33
		Total ...	6,900	1,902	8,802	2,654	2,404	581	2,985	...	5,048	3,235	2,353
		Nāra Supply Channel ...	90	1,859	1,949	235	37	648	945	...	940	211	729
		Eastern Nara Canal ...	...	...	...	...	...	...	...	...	...	...	...
		Mithrao Canal ...	821	343	1,164	187	380	129	599	...	690	330	366
Total, Major Works	Thar Canal	...	2,649	859	2,738	1,138	1,432	70	1,002	...	2,049	2,821	119
		Khipra Canal ...	...	...	...	...	...	...	...	...	...	...	...
		Heron Canal ...	...	...	...	...	...	...	...	...	...	...	...
		Himal Canal ...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	3,480	2,301	5,781	1,881	1,841	847	2,696	...	4,576	3,363	1,214
Total, Major Works ...													
84,314 85,890 120,304 70,761 85,872 46,438 1,32,300 ... 2,03,010 1,50,024 52,805													
MINOR WORKS.													
IRRIGATION AND NAVIGATION.													
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.													
Canals in Operation.													
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	665	9,568	5,142	1,196	109	1,275	...	6,417	5,593	914
		Total ...	11,534	1,505	13,039	6,712	2,471	435	2,976	...	9,588	6,976	2,702
Karachi Canals District—Sattah Canal													
Central Hyderabad Canals District.	Alibhar Kacheri	...	1,201	18	1,217	119	422	...	422	...	511	401	140
		Mārak ...	6,293	104	6,467	994	2,114	41	2,355	...	3,340	1,950	1,399
		Sarfaraz ...	6,129	150	6,279	1,800	2,032	44	2,077	...	6,777	2,800	4,978
		Total ...	13,623	340	13,963	5,913	4,760	85	4,845	...	10,767	5,220	5,547
Fuleli Canals District.	Fuleli Canal	...	54,674	6,604	61,368	14,163	26,436	3,049	29,485	...	43,038	31,900	11,729
		Hasanali Canal...	804	6	810	-403	455	3	458	...	55	294	349
		Total ...	55,478	6,700	62,178	13,750	26,891	3,052	29,943	...	43,093	32,194	12,078
Total, Minor Works, Capital and Revenue Accounts ...													
50,779 8,549 59,319 26,416 34,165 3,574 37,739 ... 61,155 43,797 26,358													
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.													
Canals in Operation.													
Shikārpur Canals District.	Canals in Rohri	...	8,130	3,349	11,479	2,013	1,117	454	1,764	...	3,635	2,176	1,499
		Sind Canal ...	3,701	510	4,247	2,425	2,114	24	2,455	...	5,013	3,275	1,718
		Rajib Canal ...	89	103	192	113	60	78	118	...	547	513	34
		Chitti Canal ...	451	317	798	264	267	154	475	...	1,188	481	717
		Garang Canal ...	450	340	790	327	80	18	123	...	510	126	384
Bhawulpur Lands Foreign—Canals in Rohri.	Total ...	12,821	4,645	17,595	6,210	3,631	1,052	4,683	...	11,893	6,531	4,392	
		Nāra ...	132	133	270	...	78	52	140	...	130	110	...
		New Feeder ...	7,405	3,504	11,172	5,500	4,465	1,248	5,713	...	11,213	6,675	4,648
		Nāra ...	...	...	...	...	...	...	...	...	...	...	...
		Wahur ...	...	...	...	...	...	...	...	...	...	...	...
Western Nara District.	Manchar	...	...	10	10	...	...	...	...	...	...	...	...
		Prichard Canal ...	...	...	...	...	...	...	...	...	...	...	...
		Dadu Canals ...	41	...	41	107	16	...	16	...	123	10	113
		Phitta Canal ...	639	4	643	225	291	...	516	...	516	317	191
		Manchar ...	...	...	...	...	...	...	...	...	...	...	...
Total, Minor Works, Only Revenue Accounts	Arul ...	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	715
		Kotri ...	...	...	...	...	...	...	...	...	...	...	...
		Virah Bund...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	10,365	4,516	14,881	7,134	5,420	1,833	7,253	...	14,357	8,349	6,038

\* Excludes "Kharabo" and uncultivated portions of survey numbers assessed—Desert Canal, Acres... 2,059 3,918 6,907  
Do. do. —Begāri 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.			Remis- sions.	Net Total for Collection.	Actual Realiza- tions.	Balance out- standing at end of year.
	Kharrif.	Rabi.	Total.		Kharrif.	Rabi.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12
<b>MINOR WORKS—concluded.</b>											
<b>IRRIGATION AND NAVIGATION—concluded.</b>											
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.</b>											
<b>Canals in Operation—concluded.</b>											
Northern Hy- derabad District.	Mahrabwah ... Nauhakhi ... Dambro ... Other Canals ...	191 211 55 163	154 2,068 1,418 819	1 986 883 -705	... 678 689 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	...	2,789	739	2,000
Central Hy- derabad District.	Ghara Mahmud ... Kari Shumali ... Nasir ... Renwah ... Other Canals ...	13,006 6,003 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 ... ...	11,084 5,140 1,812 -13 41	5,656 3,144 189 -13 ...	5,408 1,998 1,673 ... 41
Total ...	20,396	2,112	22,498	9,944	7,468	634	8,100	...	18,044	8,926	9,118
Fuleli District.	Other Canals ...	1,829	143	1,971	458	850	58	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 2,503 345 266 2,548 ... 46 53 ... ... 2	55 721 80 292 327 ... ... ... ... ... 2	879 3,224 425 292 2,875 ... 43 53 ... 2 2	372 818 ... 270 769 ... 71 -128 10 2 ...	323 1,131 ... 170 1,121 ... 5 ... 20 ... ...	16 1,235 ... 14 1,233 ... ... 5 ... 20 ... ...	... ... ... 124 ... ... ... ... ... ... ... ...	711 2,033 ... 324 2,002 ... 76 -128 30 2 ...	355 898 ... 65 1,100 ... ... 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	21,598	4,009	25,605	...	52,627	27,340	25,287
<b>AGRICULTURAL WORKS.</b>											
<b>WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.</b>											
Begari District.	Canals—Kashmor Bund ...	...	...	...	...	...	...	...	...	...	...
Shikarpur District.	Bunds in Rohri ... Sukkur Begari ... Kasimpur Bund ...	... 1,782 ...	... 1,253 ...	... 3,035 ...	... 13 ...	... ... ...	... ... ...	... ... ...	... 13 ...	... ... ...	... 13 ...
Total ...	1,782	1,253	3,035	13	...	...	...	...	13	...	13
Ghar District.	Canals } Ghar Bunds ...	115	33	148	69	55	22	77	146	69	77
Western District.	Nara Bunds ... North of Kotri ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...
Total ...	...	...	...	...	...	...	...	...	...	...	...
Karachi District.	Bunds, Right Bank ... Bunds, Left Bank ...	272 86	1 56	273 142	300 197	78 50	7 80	85 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	...	280	632	198
<b>Foreign Lands.</b>											
Begari District.	Canals ...	55,369	24,850	80,219	55,714	74,909	41,821	1,16,730	1,72,444	1,30,073	42,150
Shikarpur District.	Canals do ...	132	138	270	...	78	52	130	130	130	...
Total ...	55,501	24,988	80,489	55,714	74,987	41,873	1,16,860	...	1,72,574	1,30,213	42,160
<b>Jaghir Lands.</b>											
Indus Right Bank Division.	Begari Canals District ... Shikarpur Canals District ... Ghar Canals District ... Western Nara District ... Karachi Canals District ...	15,411 15,694 11,843 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 5,848	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	44,233	159,940	86,621	95,081	48,287	1,43,368	...	2,29,989	1,67,169	62,609
Jamrao Canal District.	Eastern Nara District ... Northern Hyderabad Canals District ... Central Hyderabad Canals District ... Fuleli Canals District ...	2,083 3,460 10,937 34,099	767 2,391 2,354 2,492	2,850 5,851 13,291 36,461	2,395 1,880 3,817 15,857	1,045 1,849 3,845 12,235	402 947 715 719	1,447 2,696 4,560 12,954	3,842 4,576 8,377 28,811	1,245 3,362 4,024 14,146	2,597 1,214 4,353 14,665
Total ...	107,796	14,796	122,592	38,155	46,716	5,793	52,508	...	90,603	54,624	36,039
TOTAL, SIND ...	223,503	69,029	292,532	1,24,776	1,41,796	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.										Revenue Collection Charges.	TOTAL EXPENDITURE.						
		Improvements.				Maintenance and Repairs.							Total, columns 6 to 12.	Establishment.			Indirect Charges.	Total.	
														Works.	Public Works Department, including Tools and Plant.	Civil Department Collection Charges.			
		Works.	Regular Establishment.	Tools and Plant.	Total.	Works.	Regular Establishment.	Tools and Plant.	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.																			
Canals in Operation.																			
Begari Canals 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	1,245	1,24,975	
	Unharwah ...	2,500	163	...	2,663	16,230	7,153	23,373	1,524	...	24,897	11,647	36,544	25,673	1,647	11,647	236	39,443	
	Begari Canal ...	2,106	170	...	2,276	60,838	13,551	74,389	6,025	...	80,404	36,235	1,16,639	76,545	6,195	36,235	1,172	1,20,127	
	Total ...	8,651	590	...	9,241	1,52,542	45,135	1,97,677	13,898	7	2,11,532	65,049	2,76,581	2,06,128	14,495	65,049	2,673	2,28,545	
Jamrao Shikarpur Canals District.	Mahiwah ...	2,820	—242	5	2,582	29,109	11,811	41,010	—3,503	75	37,542	14,636	52,214	43,830	—3,655	14,636	—524	54,946	
	Jamrao Canal ...	3,076	2,814	54	5,944	80,748	56,488	1,37,236	1,35,540	{ 2,393 } (a) —342	2,64,827	16,527	2,81,354	1,40,312	1,30,459	16,527	17,970	3,05,294	
Northern Hyderabad Canals District.	Dad Canal ...	1,030	287	7	1,314	48,610	15,459	64,069	18,025	432	82,526	18,852	1,01,478	65,060	18,751	18,952	2,564	1,05,516	
	Nasrat Canal ...	1,032	284	8	1,324	38,489	12,013	51,752	14,231	409	66,392	16,849	82,731	62,744	14,932	16,339	2,032	89,117	
	Total ...	2,062	571	15	2,638	87,109	27,472	1,15,821	32,256	841	1,48,918	35,291	1,84,209	1,27,804	33,683	35,291	4,596	1,61,443	
Eastern Nara District.	Nara 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 Nara ...	...	...	...	...	20,484	6,403	26,887	12,104	392	30,381	4,220	34,601	26,887	12,104	4,220	1,684	46,295	
	Mithrao Canal ...	108	48	2	158	31,960	9,110	41,070	19,524	{ 505 } (a) 17	61,220	17,482	81,702	44,147	20,191	17,482	2,741	84,601	
	Thar Canal ...	...	...	...	...	7,011	4,064	11,075	4,944	294	16,353	8,804	25,157	11,075	5,274	8,804	609	25,949	
	Khaira Canal ...	...	...	...	...	1,774	520	2,294	1,034	41	3,374	825	4,199	2,248	1,080	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 ...	2,002	12	5	2,079	98,206	26,486	1,24,692	41,332	1,544	1,62,662	34,761	1,97,423	1,21,844	42,897	34,761	5,788	2,05,200		
Total, Major Works		18,670	3,745	79	22,494	4,43,234	1,69,202	6,11,536	2,00,623	4,822	8,25,571	1,66,264	9,91,835	6,30,106	2,17,509	1,66,264	30,503	10,41,832	
MINOR WORKS. IRRIGATION AND NAVIGATION. WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																			
Canals in Operation.																			
Ghar Canals 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	49,783	12,703	19,140	1,707	83,472	
	Ghar 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	33,778	50,032	5,095	2,14,377	
Total ...	7,659	1,946	55	9,666	1,44,767	22,808	1,67,575	44,039	525	2,12,139	69,172	2,81,351	1,75,244	46,671	69,172	6,802	2,97,116		
Karachi Canals 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	
	Alibhar Kacheri ...	...	...	...	...	2,694	900	3,594	844	—53	4,470	2,261	6,731	3,689	791	2,361	119	6,459	
Central Hyderabad Canals District.	Marak ...	...	...	...	...	16,779	3,032	19,811	4,533	—286	24,058	11,030	35,088	19,811	4,247	11,030	635	35,723	
	Sarfriz ...	...	...	...	...	11,843	1,906	13,749	3,147	—199	16,897	4,366	21,263	13,749	2,948	4,366	441	21,504	
Total ...	...	...	...	...	31,320	5,938	37,258	8,524	—538	45,234	17,657	62,891	37,258	7,866	17,657	1,195	64,086		
Fuleli Canals District.	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	2,70,710	
	Hasanali Canal ...	863	233	1	1,097	18,840	3,139	21,979	4,575	30	21,544	2,632	24,206	17,642	4,639	2,632	673	25,976	
Total ...	5,954	1,604	10	7,568	1,54,509	25,495	1,79,904	47,201	303	2,22,808	59,767	2,82,566	1,81,258	49,118	59,767	6,833	2,96,196		
Total, Minor Works, Capital and Revenue Accounts		13,689	3,566	64	17,319	3,45,628	58,143	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	6,55,713	
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																			
Canals in Operation.																			
Shikarpur Canals 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	77,600	—6,233	13,269	...	84,733	
	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 ...	1,052	—87	2	967	560	925	1,495	—122	3	1,368	2,440	3,808	2,537	—204	2,440	...	4,773	
	Garang Canal ...	2,136	—175	4	1,964	1,584	520	2,104	—172	4	1,936	1,139	3,075	4,239	—339	1,139	...	5,039	
Total ...	4,957	—407	9	4,559	83,314	14,549	97,863	—8,021	172	90,014	28,401	1,18,415	1,02,820	—8,247	28,401	...	1,22,974		

(a) Suspense Account.

TABLE IV—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 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 Ndra 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	75,866	80,331	45,218	1,50,905	
	Western Nara New Feeder																	
	Murvi					1,857	229	2,086	820	20	2,926	319	319		319		319	
	Wauri	137	54	1	192	233	130	363	143	3	609	435	944	500	201	435	1,130	
	Pritchard Canal	3,593	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	1,816	730	711	3,257	
	Manchar											2,058	2,058			2,058	2,058	
	Aral											1,463	1,463			1,463	1,463	
	Canals north of Kotri.	468	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					1,669		1,669	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	37,713	918	1,34,602	55,961	1,90,563	1,01,845	40,995	55,961	1,98,801		
Northern Hyderabad 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	7,640	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.	Gharo Mahmudo					21,678	3,637	25,315	5,793	—368	30,740	9,265	40,005	25,315	5,425	9,265	40,005	
	Kari Shumali					6,725	2,795	9,521	2,179	—138	11,592	4,443	16,005	9,521	2,041	4,443	16,005	
	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	19,346	
	Renwah	1,659	380	—24	2,015	2,341	1,127	3,468	793	—50	4,211	139	4,350	5,127	1,099	139	6,365	
	Other Canals					2,097	301	2,998	686	—44	3,640	709	4,349	2,993	642	709	4,349	
Total	3,401	779	—49	4,131	41,581	9,675	51,556	11,797	—749	62,604	19,335	81,938	51,957	11,778	19,335	86,070		
Fulhi District.	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																	
Karachi District.	Other Canals, Tatta, &c.	4,061	533	—66	4,528	14,503	2,042	16,545	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	19,383	2,088	21,451	17,946	2,062	2,088	22,098	
	Bachar	8,223	502	—62	8,723	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	804	7,238	949	—118	8,089	1,957	10,026	8,063	926	1,957	10,946	
	Pinyari	5,460	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	9,538	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	1,820	
	Khanto	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 Shabbandar.					439	164	603	79	—10	672	242	914	603	69	242	914	
	Kokawari					3,328	478	3,806	499	—62	4,243	2,160	6,393	3,806	437	2,160	8,393	
	Laikpur					3,453	1,086	4,539	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	1,88,411	27,007	2,15,418	1,97,227	22,655	27,007	2,46,889	
	Total, Minor Works, Revenue Accounts only.																	
51,227 8,693 —399 59,521 3,87,599 92,726 4,80,325 81,117 —2,137 5,59,395 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.																		
Unany District.	Kashmir 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	56,477	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.	Sukkur-Begari 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	3,38,770	79,144	1,262	4,19,176	
	Kachiampur Bund	290	48	2	340	1,195	2,124	3,319	747	29	4,095	213	4,308	3,519	826	213	4,558	
	Bunds in Rohri District	33,168	7,463	292	40,908	5,530	1,224	6,754	2,218	86	12,108		12,108	42,962	10,054		53,016	
	Tulsi Dhand																	
	Contour Survey																	
	Garhi Habim 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, District.	Ghar 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	
	Nara 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	5,573	
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, column 6 to 12.	Works.	Establishment.		Indirect Charges.	Total.
															Public Works Department, including Tools and Plant.	Civil Department Collection Charges.		
		Works.	Regular Establishment.	Tools and Plant.	Total.	Works.	Works Establishment.	Total.	Regular Establishment.	Tools and Plant.	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.																		
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	1,66,404	40,777	677	2,07,918	
	Hunderani Panah Forest ...	1,999	460	30	2,488	...	...	...	...	...	...	...	...	1,998	49	...	2,4-8	
	Mathematical Instrument Depot ...	...	...	32,958	32,958	...	...	...	...	...	...	...	...	...	32,958	...	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	2,56,347	2,25,004	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.		20,131	47,328	2,631	76,140	21,840	...	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	8,021	47,632	451	51,304	...	...	...	...	...	...	...	3,021	48,2-3	...	...	51,304	
	Constructing a bund between Nasrat and Naulakhi Canals	6,093	1,609	19	8,627	...	...	...	...	...	...	...	...	6,999	1,624	...	8,627	
	Naulakhi-Bhorthi Bund, Canal Chowkey at Dowlatpur	451	104	1	556	1,833	1,057	2,890	0-5	8	3,563	1	3,564	3,311	774	1	4,120	
	Experimenting on the Cultivation of Barseem in Sehri Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Indus Survey Marks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Total ...	10,471	49,545	471	60,487	2,242	1,057	3,309	750	(a) 2,193	(a) 2,193	1	(a) 2,193	13,770	(a) 784	1	(a) 61,555	
Central Hyderabad Canals District.	Renwah loop bund	...	...	...	...	420	261	686	157	(a) 44	(a) 2,193	...	809	680	123	...	809	
Fuleli Canals District.	Extending Jamshoro Bund to Sapki main	9,198	2,078	136	11,412	...	...	...	...	...	...	...	9,198	2,214	...	...	11,412	
	Constructing Sang Dhadko Loop Bund Sections 1 and 2	...	...	...	...	60,991	...	60,994	15,811	1,031	66,836	...	66,836	60,094	10,842	...	66,836	
	Hajipur, Sang, Dadhko, Budka Takar and Katkar 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 ...		9,198	2,078	136	11,412	1,17,813	3,942	1,21,755	27,603	(a) 1,703	1,51,051	(a) 315	1,51,051	1,30,953	16,100	(a) 315	1,62,463	
Total, Agricultural Works		1,35,930	1,67,712	38,894	3,42,542	6,72,056	82,418	9,55,074	2,55,479	15,081	12,35,594	4,440	12,30,034	10,91,010	4,77,126	4,440	15,72,576	
Indus Right Bank Division.	Begari Canals District, Shikarpur Canals District	15,332	2,918	65	18,315	3,41,670	79,090	4,20,760	65,647	2,159	4,98,566	65,892	5,54,458	4,36,092	70,789	65,892	2,673	5,75,446
	Ghar Canals District	52,400	9,393	407	62,200	4,39,783	41,727	4,80,510	61,313	3,28	5,49,056	44,512	5,93,568	5,32,910	78,746	44,512	-524	6,35,244
	Western Nara District, Karachi Canals District	8,623	2,174	68	10,865	1,49,447	26,707	1,76,154	46,012	638	2,22,702	68,480	2,91,182	1,84,777	44,900	68,480	6,802	3,09,949
	Survey and Construction District	16,707	4,763	84	21,554	83,227	40,004	1,23,231	43,835	909	1,68,055	56,603	2,24,658	1,39,939	49,683	56,603	...	2,46,204
	Indus River District	49,271	8,538	32,811	90,620	3,52,140	43,441	3,95,580	73,116	-71	4,67,625	30,534	4,98,159	4,44,851	1,13,304	30,534	393	5,83,172
	Survey and Construction 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 ...	6,075	48,897	1,837	56,809	...	...	...	...	...	...	...	...	6,075	50,734	...	...	56,809
Total ...		1,74,539	1,24,003	37,953	3,36,495	13,59,107	2,30,968	16,20,075	3,36,106	9,886	19,65,567	2,67,021	22,32,588	17,94,614	5,17,448	2,67,021	9,344	25,78,427
Indus Left Bank Division.	Jamrao Canal District, Eastern Nara 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	16,527	17,970	3,05,269
	Northern Hyderabad Canals District	2,062	12	5	2,079	93,206	26,486	1,19,782	41,332	1,548	1,62,662	34,761	1,97,423	1,21,844	42,897	34,761	5,788	2,45,290
	Central Hyderabad Canals District	21,292	52,426	529	74,24	1,31,826	38,009	1,69,835	46,376	3,295	2,19,506	48,202	2,67,703	1,91,17	1,02,626	48,202	4,596	3,46,551
	Fuleli Canals District	3,401	779	-49	4,13	78,623	16,867	89,490	20,478	-1,321	1,08,647	36,992	1,45,639	92,891	19,887	36,992	1,195	1,50,985
	Total ...	15,152	3,682	146	18,980	2,80,517	31,761	3,12,278	78,805	2,437	3,93,520	63,018	4,56,538	3,27,430	85,070	63,018	6,833	4,82,351
Total ...		44,983	59,713	685	1,05,381	6,60,010	1,08,611	8,28,621	8,12,531	8,010	11,40,162	1,99,500	13,48,662	8,73,604	3,90,939	1,99,500	36,382	14,90,425
TOTAL, SIND		2,19,522	1,83,716	39,638	4,41,876	20,49,117	3,09,579	24,48,696	6,48,637	17,366	31,14,729	4,06,531	35,81,260	26,68,218	8,89,387	4,66,521	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.			Percentage of Expenditure on Revenue.	Cost of Maintenance per acre.	1909-1910.			Percentage of Expenditure on Revenue.	Cost of Maintenance per acre.	LENGTH IN MILES.				
	Cultivation.	Canal Revenue.	Maintenance and Revenue Collection.			Cultivation.	Canal Revenue.	Maintenance 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.															
Canals in Operation.															
De-sert Canals District.	157,869	3,12,268	1,44,436	46.2	9	177,308	3,34,987	1,23,388	36.9	7	75	254	329	...	329
Unharwah	74,938	1,73,090	37,784	21.8	5	79,443	1,81,965	36,544	20.1	5	36	82	118	...	118
Begari Canal	263,132	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	10,94,408	2,82,468	25.8	1.6	487,502	10,85,578	2,76,631	25.5	6	187	430	617	...	617
Shikarpur Canals District—Mahiwal.	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	219,913	6,20,167	9,15,851	50.9	1.5	174,105	5,09,250	2,81,354	55.2	1.6	117	472	589	...	589
Northern Hyderabad Canals 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
Nasrat Canal	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	86,896	63,708	43,601	43.5	1.2	...	...	...	179	1.9
Mithrao Canal	117,332	3,07,166	65,885	21.5	0.6	100,290	2,89,954	81,702	28.2	0.8	83	50	143	98	236
Thar Canal	50,264	1,42,423	23,147	16.3	0.5	48,592	1,49,905	25,251	16.8	0.5	21	48	72	33	105
Khpra Canal	5,237	8,922	2,641	29.6	0.5	5,559	10,593	3,903	35.8	0.7	15	...	15	...	15
Herna Canal	1,753	3,841	272	70.8	0.2	1,188	2,355	536	22.8	0.5	3	...	3	...	3
Hiral Canal	17,108	39,426	15,522	30.4	0.9	16,329	42,911	16,093	37.5	1.0	19	22	41	...	41
Outlay incurred by Indus District	...	...	211	...	...	...	...	...	...	...	...	...	...	...	...
Total	287,895	6,59,434	1,72,084	26.2	0.6	213,238	5,74,413	1,97,423	34.4	0.9	106	120	286	305	591
Total, Major Works	1,310,665	30,77,044	10,17,503	33.1	0.8	1,144,951	28,95,853	9,91,835	34.3	0.9	689	1,754	2,443	305	2,749
MINOR WORKS.															
IRRIGATION AND NAVIGATION.															
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.															
Canals in Operation.															
Ghar Canals 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
Ghar Canal	262,446	7,83,766	1,55,561	19.7	6	230,333	7,50,264	2,05,276	27.4	9	67	230	297	...	297
Total	352,007	10,46,063	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	16,433	29,442	21,052	74.6	1.4	16,402	38,772	26,394	68.1	1.6	31	6	37	...	37
Central Hyderabad Canals 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
Alibhar Kacheri	63,410	1,62,308	34,801	22.8	0.5	59,320	1,41,912	35,088	24.7	0.6	24	149	173	...	173
Marak	33,015	59,612	17,965	30.1	0.5	33,771	58,812	21,063	35.8	0.6	80	31	111	...	111
Sarfruz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	103,125	2,36,009	58,005	24.6	0.5	105,608	2,26,630	62,891	27.8	0.6	129	213	342	...	342
Fuleli Canals 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
Hasanali Canal	16,736	80,861	17,048	55.2	1.0	17,750	43,881	24,306	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	1,494	1,928	...	1,928
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.															
Canals in Operation.															
Canals in Rohri	64,085	1,64,175	40,979	24.9	6	58,959	1,58,613	23,555	14.9	4	109	11	120	...	120
Sind Canal	67,439	2,79,799	87,634	31.3	1.0	67,263	2,20,384	63,669	28.9	1.2	81	79	130	...	130
Rajib Canal	9,494	36,561	7,928	21.4	8	8,454	34,344	4,310	12.5	5	10	...	10	...	10
Chitti Canal	11,769	42,567	18,048	18.9	7	9,613	36,799	3,806	10.3	4	10	...	10	...	10
Garang Canal	6,721	22,848	5,966	26.1	9	5,363	17,436	3,075	17.6	6	11	...	11	...	11
Gidra Dhund	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	179,508	5,45,940	1,50,451	27.6	8	149,567	4,67,671	1,18,415	25.3	8	191	90	281	...	281
Nara	24,263	8,06,129	1,28,205	15.9	5	231,390	7,78,305	1,49,412	19.2	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	24,293	1,463	6.0	1	20	13	33	...	33
Pritchard	9,908	30,906	10,665	34.5	1.1	9,323	32,696	12,468	33.1	1.3	24	23	47	...	47
Wahur	2,413	7,461	1,135	15.2	5	2,423	7,427	1,444	12.7	4	4	...	4	...	4
Marvi	4,919	13,322	3,028	22.7	6	4,938	13,318	3,644	27.7	8	15	...	15	...	15
New Feeder, Western Nara	1,485	5,001	299	5.9	2	1,439	5,325	319	6.0	2	8	...	8	...	8
ern Nara	9,472	22,329	7,366	33.1	7	9,705	22,624	5,423	24.0	6	19	14	33	...	33
Datta Canals	6,185	14,417	2,437	16.9	4	5,617	11,982	2,379	19.9	4	40	...	40	...	40
Phitta Canals, north of Kotri	12,421	24,659	10,938	44.6	9	13,063	29,362	10,772	34.3	8	62	...	62	...	62
Virah Bund	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	327,763	9,92,241	1,99,259	19.0	6	299,061	9,61,463	1,90,563	19.8	6	348	325	673	...	673
Northern Hyderabad Canals District.	13,101	30,635	15,331	50.2	1.2	12,748	24,148	13,954	49.6	1.1	29	14	43	...	43
Mehrabwah	45,991	1,55,577	30,061	19.3	0.7	44,705	1,27,628	36,057	28.3	0.7	27	91	118	...	118
Naukahi	14,067	34,291	19,599	67.2	1.2	16,066	34,941	19,046	66.2	1.3	31	35	66	...	66
Dambro	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	83,685	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 Canals District.	77,484	1,56,779	32,351	20.6	0.4	78,018	1,57,439	40,905	25.5	0.5	37	167	204	...	204
Ghoro Mahmudo	35,439	68,157	16,931	24.8	0.4	34,549	64,425	16,045	23.4	0.5	36	154	190	...	190
Kari Shumali	35,709	80,125	23,631	24.7	0.6	33,584	76,475	17,230	22.6	0.5	26	101	127	...	127
Nasir	1,587	4,324	5,416	125.1	3.4	1,834	4,381	4,350	128.7	4.7	24	12	36	...	36
Renwah	5,215	12,163	3,061	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	3,17,249	81,939	25.8	0.5	148	441	569	...	569
Fuleli Canals 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 Zarwadars 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.	Main-te-nance and Revenue Collec-tion.			Cultiva-tion.	Canal Revenue.	Main-te-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.															
Canals in Operation—concluded.															
Canals in Tatta, &c. ...	14,281	18,984	18,857	111.0	1.8	11,187	13,854	19,634	99.9	1.8	71	5	76	...	76
Kalri ...	1,057	30,730	27,427	81.3	1.6	18,310	38,024	21,451	55.1	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 ...	13,034	18,234	2,068	11.3	.2	15,201	21,290	2,140	10.1	.1	34	3	37	...	37
Pinyari ...	60,819	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
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 ...	9,961	16,884	17,313	102.6	1.7	10,393	26,065	14,439	55.6	1.4	53	17	69	...	69
Canals in Jati ...	2,664	6,482	3,191	41.2	1.2	3,337	7,881	1,637	19.5	.5	10	...	10	...	10
Khanto ...	4,868	9,316	9,929	106.6	2.0	5,195	11,937	11,031	94.8	2.1	21	11	32	...	32
Canals in Shakhbandar ...	1,765	3,003	3,093	103.0	1.8	2,076	4,715	914	19.4	.4	19	...	19	...	19
Kokawari ...	13,906	30,610	7,124	23.3	.5	15,749	34,651	6,393	18.4	.4	17	10	27	...	27
Lakpur ...	...	...	2,815	...	...	...	...	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	464	477	931	...	931
Total, Minor Works, Revenue Accounts only ...	981,517	24,96,439	7,77,786	31.2	0.8	924,596	25,03,429	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, Kashmir Bund ...	8,525	18,967	1,59,325	841.0	18.7	6,974	15,802	2,77,827	1,751.5	30.8	...	...	...	66	66
Shikarpur Bunds in Rohri ...	...	119	3,544	2,978.2	...	...	189	12,108	6,500.7	...	...	...	...	62	62
Canals Dis-trict, Sukkur-Begari Bund ...	3,036	9,744	8,311	90.4	2.9	1,089	3,536	4,308	121.8	4.0	...	...	...	9	9
Fulsi Dhand ...	11,670	30,694	2,18,660	712.4	18.7	8,239	20,194	4,06,519	2,013.1	49.3	...	...	...	49	49
Total ...	14,708	40,657	2,31,089	569.8	15.7	9,327	23,916	4,22,935	1,768.4	45.3	...	...	...	120	120
Ghar Canals Dis-trict, Ghar Bunds ...	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, Nara Bunds, north of Kotri ...	4,867	15,946	32,928	206.6	6.8	2,466	9,327	50,824	330.4	12.5	...	...	...	79	79
...	650	1,491	4,537	304.3	7.0	770	2,190	3,271	140.4	4.2	...	...	...	6	6
Total ...	5,507	17,437	37,465	214.9	6.8	3,236	11,517	34,005	296.0	10.5	...	...	...	85	85
Karachi Canals Dis-trict, Bunds, Right Bank Bunds, Left Bank, Mathematical Instrument Depot ...	5,810	7,796	54,406	708.0	9.4	5,763	11,103	50,400	604.0	9.4	...	...	...	80	80
...	3,781	6,339	71,247	1,123.9	18.8	4,200	11,418	1,90,943	1,761.2	47.6	...	...	...	98	98
...	...	39	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	9,591	14,174	1,26,053	889.3	13.1	9,963	22,021	2,50,347	1,138.3	25.7	...	...	...	168	168
AGRICULTURAL RECEIPTS.															
Karachi Canals District ...	...	2,456	58,397	2,377.7	...	...	194	69,463	35,805.7	...	...	...	...	...	...
Indus River District ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jamrao Canal District ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Eastern Nara District ...	...	1	11,062	778.5	...	...	2	...	...	...	...	...	...	...	...
Northern Hyderabad Canals District ...	...	1,421	3,111	543.9	...	...	1,525	6,181	41.6	...	...	...	...	10	10
Central Hyderabad Canals District ...	...	572	3,111	543.9	...	...	400	849	202.3	...	...	...	...	7	7
Fulsi Canals District ...	...	315	59,792	18,931.3	...	...	48	151,360	315,346.8	...	...	...	...	140	140
Total, Agricultural Works ...	39,522	99,860	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	683
Shikarpur Canals Dis-trict ...	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	10,13,218	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	9,72,980	2,24,678	23.1	.7	348	325	673	85	759
Karachi Canals Dis-trict ...	236,598	4,33,899	4,04,924	93.3	1.7	240,993	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 ...	287,893	6,69,435	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 Dis-trict ...	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
Fulsi 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	13,44,662	41.6	1.0	1,082	2,937	3,919	362	4,281
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 Nanlakhi.

† Fulsi 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
<b>MAJOR WORKS.</b>		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>PRODUCTIVE WORKS.</b>								
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>								
<i>Canals in Operation.</i>								
Begári Canals District	Desert Canal	2,32,613	...	...	2,32,613	1,01,774	1,698	3,36,085
	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
	<b>Total</b>	<b>9,39,715</b>	<b>33,613</b>	<b>...</b>	<b>9,06,102</b>	<b>1,45,863</b>	<b>12,884</b>	<b>10,64,849</b>
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	6,334	6,043	1,84,438
	Nasrat Canal	2,53,463	72,854	...	1,80,629	1,291	8,299	1,90,219
	<b>Total</b>	<b>5,09,157</b>	<b>1,56,767</b>	<b>...</b>	<b>3,52,390</b>	<b>7,925</b>	<b>14,342</b>	<b>3,74,657</b>
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	...	190	2,485
	Hiral Canal	42,189	...	...	42,189	722	1,412	44,323
	<b>Total</b>	<b>5,50,841</b>	<b>3,444</b>	<b>...</b>	<b>5,47,397</b>	<b>23,572</b>	<b>2,431</b>	<b>5,73,400</b>
<b>Total, Major Works</b>		<b>26,92,240</b>	<b>3,04,321</b>	<b>...</b>	<b>23,87,919</b>	<b>2,03,618</b>	<b>70,804</b>	<b>26,62,341</b>
<b>MINOR WORKS.</b>								
<b>IRRIGATION AND NAVIGATION.</b>								
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>								
<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	6,22,238
	<b>Total</b>	<b>9,93,475</b>	<b>2,20,318</b>	<b>...</b>	<b>7,73,157</b>	<b>20,118</b>	<b>8,262</b>	<b>8,01,537</b>
Karáchi 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
	<b>Total</b>	<b>2,20,020</b>	<b>95,748</b>	<b>...</b>	<b>1,24,272</b>	<b>6,610</b>	<b>5,258</b>	<b>1,36,140</b>
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
	<b>Total</b>	<b>7,73,264</b>	<b>2,50,465</b>	<b>...</b>	<b>5,22,799</b>	<b>45,178</b>	<b>11,806</b>	<b>5,79,783</b>
<b>Total, Minor Works, Capital and Revenue Accounts</b>		<b>20,24,670</b>	<b>5,82,676</b>	<b>...</b>	<b>14,41,994</b>	<b>72,767</b>	<b>25,804</b>	<b>15,40,565</b>
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>								
<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
	Chittli Canal	36,209	...	...	36,209	590	517	37,316
	Garang Canal	17,281	...	...	17,281	155	638	18,074
	<b>Total</b>	<b>4,67,071</b>	<b>...</b>	<b>...</b>	<b>4,57,071</b>	<b>10,600</b>	<b>14,065</b>	<b>4,81,736</b>

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 Rights.	Total, Direct and Indirect Receipts.
		Deduct.	Add.				
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>MINOR WORKS—continued.</b>							
<b>IRRIGATION AND NAVIGATION—concluded.</b>							
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.</b>							
<b>Canals in Operation—concluded.</b>							
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	5,517
	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.	Mehrabwah ...	27,952	...	27,952	196	540	28,688
	Naulákhi ...	1,26,205	...	1,26,205	1,423	713	1,28,341
	Dambro ...	34,119	...	34,119	823	529	85,470
	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 Mahmudo ...	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	12,463	6,827	3,24,076
Fuleli Canals District ...	Other Canals ...	57,485	...	57,485	2,911	715	61,111
Karáchi 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
Karáchi Canals District ...	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 Miscel- laneous.	Receipts from sale of Occupancy Rights.	Total, Direct and Indirect Receipts.
					Deduct.	Add.				
1				3	3	4	5	6	7	8
MINOR WORKS—concluded.				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
AGRICULTURAL WORKS.										
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.										
Begári Canals District	...	Kashmor 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, 598 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	400	...	{ 17,505 59,437 18,806 400
		Marak	...	...	...	59,437	59,437			
		Sarfráz	...	...	...	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	31,17,390	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 5 are assessments; those in 6 and 7 are actuals.



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**T A B L E VII.**

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TABLE

*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.										
Canals in Operation.										
Begári Canals District.	{	Desert Canal	...	89,026	30,389	119,415	2,21,823	80,440	3,02,263	
		Unbarwáh	...	53,128	26,245	79,373	1,32,521	72,891	2,05,712	
		Begári Canal	...	135,138	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	10,96,219	
Shikárpur District.	Canals	{	Mahiwáh	...	45,302	22,892	75,694	1,26,324	1,00,784	2,27,108
Jámráo District.	Canal	{	Jámráo Canal	...	131,650	39,605	171,255	4,19,132	1,39,142	5,58,274
Northern Hyderabad Canals District	{	Dád Canal	...	84,463	14,960	99,423	2,31,196	54,937	2,86,133	
		Nasrat Canal	...	71,609	12,072	83,681	2,54,624	38,730	2,93,354	
Total				156,072	27,032	183,104	4,85,820	93,667	5,79,487	
Eastern Nára District.	{	Nára Supply Channel	...	206	3,229	3,435	788	9,145	9,933	
		Eastern Nára	...	22,510	14,386	36,896	41,237	25,091	66,328	
		Mithráo Canal	...	82,173	16,953	99,126	2,80,293	52,956	3,33,249	
		Thar Canal	...	43,667	2,187	45,854	1,54,738	7,013	1,61,751	
		Khipra Canal	...	4,379	1,180	5,559	7,935	1,779	9,714	
		Heran Canal	...	818	370	1,188	1,647	970	2,617	
		Hiral Canal	...	12,800	2,529	15,329	37,703	10,107	47,810	
Total				166,553	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	30,92,490	
MINOR WORKS.										
IRRIGATION AND NAVIGATION.										
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.										
Canals in Operation.										
Ghár Canals District.	{	Sukkur Canal	...	71,670	14,829	86,499	2,36,361	54,031	2,90,392	
		Ghár Canal	...	197,892	22,873	220,765	7,86,323	1,05,026	8,41,349	
Total				269,562	37,702	307,264	9,72,684	1,59,057	11,31,741	
Karáchi Canals District.		Sattah Canal	...	15,327	926	16,253	40,921	2,020	42,941	
Central Hyderabad Canals District.	{	Alibhar Kacheri	...	10,567	233	10,800	27,493	591	28,084	
		Marak	...	50,607	2,756	53,363	1,46,952	8,297	1,55,249	
		Sarfrázwáh	...	26,636	956	27,492	57,969	3,404	61,373	
Total				87,710	3,945	91,655	2,32,414	12,292	2,44,706	
Fuleli Canals District.	{	Fuleli Canal	...	2,70,064	38,032	305,096	7,25,245	94,090	8,19,335	
		Hasanali Canal	...	16,636	304	16,940	47,804	833	48,637	
Total				283,700	38,336	322,036	7,73,049	94,923	8,67,972	
Total, Minor Works, Capital and Revenue Accounts				656,299	30,909	737,208	20,19,068	2,68,292	22,87,360	
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.										
Canals in Operation.										
Shikárpur District.	{	Canals in Rohri	...	27,305	19,935	47,240	99,548	72,093	1,71,641	
		Sind Canal	...	49,670	13,286	62,956	1,94,920	49,884	2,44,804	
		Rajib Canal	...	6,028	2,234	8,262	27,544	10,142	37,686	
		Chitti Canal	...	5,503	3,317	8,820	25,773	14,552	40,325	
		Garang Canal	...	1,966	2,547	4,513	8,686	10,515	19,201	
Total				90,472	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.*

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.
29,462	14,342	43,804	2,58,459	2,32,613	83,375	40,798	2,65,680	+ 5,651	—10,401	—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	10,44,394	—12,939	—28,289	—1,04,679
699	281	980	2,26,128	2,03,515	53,640	36,353	2,41,748	—7,838	—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	+ 6,686
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	+ 3,310
...	...	...	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	—1,324
18,304	1,052	19,356	6,12,046	5,50,841	187,252	81,734	6,06,085	—20,699	—40,900	—55,244
71,611	29,503	1,01,114	29,91,376	26,92,240	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	2,73,943	—1,396	—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	—98,395
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	1,39,608	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	—6,055
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	8,11,066	7,29,960	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	117,698	20,99,669	—25,548	—36,789	—74,999
515	166	681	1,70,960	1,53,865	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	—4,393	—86,793
126	...	126	37,560	33,504	7,214	2,362	37,874	—1,186	—128	—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	29,326
	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
	Dámbro ... ..	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
	Renwáh ... ..	465	469	934	1,183	1,607	2,790
	Other Canals ... ..	4,634	551	5,185	11,110	2,017	13,127
Total ...		118,201	9,873	128,074	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 {						
	Kalri ... ..	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	21,682	2,377	23,959
	Canals in Tatta, etc. ... ..	9,004	1,891	10,895	19,303	4,159	23,462
	Pinyári ... ..	78,080	3,724	81,804	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 Sujáwal ... ..	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	1,805	38,629
Total ...		188,787	18,045	206,832	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	2,664	34,290	30,861	9,592	1,370	32,946	-1,380	-254	-2,085
382	69	451	8,055	7,250	1,044	1,501	7,641	-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	-246
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	2,065	14,733	-119	-1,279	-4,226
989	391	1,380	81,166	28,049	6,422	4,357	25,786	+1,259	-551	+2,263
36,328	11,979	48,307	10,92,176	9,28,959	238,759	90,594	10,15,277	-17,815	-27,358	-86,318
76	...	76	31,058	27,952	11,550	2,285	33,589	+704	-1,951	-5,637
...	43	43	1,40,227	1,26,205	43,160	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	2,36,472	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	57,485	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	25,276	7,209	46,142	+1,961	-1,932	+10,989
64	256	320	23,639	21,275	11,733	1,832	17,588	+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	80,250	10,515	1,55,163	-2,170	-6,791	+60,384
621	145	766	38,339	34,506	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	7,820	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	11,148	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.		Begári Canals District	...	...	...	280,895	113,386	394,281	7,66,889	3,45,420	11,12,309
		Shikárpur Canals District	...	...	...	138,616	75,131	213,777	4,92,273	2,74,000	7,66,273
		Ghár Canals District	...	...	...	270,296	38,161	308,457	9,75,884	1,60,836	11,36,720
		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.		Jámráo Canal District	...	...	...	131,650	39,605	171,255	4,19,133	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	18
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	12,178	10,960	4,022	1,717	17,272	—1,816	—687	—6,312
...	188	188	10,675	9,608	4,013	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	21,830	15,349	88,685	—4,345	—5,591	—16,718
33,470	19,677	53,147	10,59,162	9,53,247	294,491	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	—83,815	—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	—17,298	+ 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	5,43,346	4,89,012	184,793	17,252	5,48,869	—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	—184,968	—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
<b>MAJOR WORKS.</b>									
<b>PRODUCTIVE WORKS.</b>									
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>									
<i>Canals in Operation.</i>									
Begári Canals District.	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.	Mahiwáh ...		1,563	2,226	2,769	276	2,483	99	
Jámráo Canal District.	Jámráo Canal.		3,677	4,002	41,295	4,129	37,166	1,487	
Northern Hyderabad Canals District.	Dad Canal ...		5,438	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	1,136	
Eastern Nára District.	Nára Supply Channel ...		215	11	227	23	204	8	
	Eastern Nára ...		75	20	5	1	4	...	
	Mithrao Canal.		57	...	...	...	...	...	
	Thar Canal ...		13	...	...	...	...	...	
	Khipra Canal ...		...	...	...	...	...	...	
	Heran Canal ...		...	...	...	...	...	...	
	Hiral 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	81,386	8,139	73,247	2,929	
<b>MINOR WORKS.</b>									
<b>IRRIGATION AND NAVIGATION.</b>									
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>									
<i>Canals in Operation.</i>									
Ghár Canals District.	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.	Sattah Canal ..		1,114	2,881	2,345	234	2,111	84	
Central Hyderabad Canals District.	Alibhar Kacheri		39	103	113	11	102	4	
	Márák ...		801	1,398	3,937	394	3,543	142	
	Sarfráz ...		154	335	177	18	159	6	
	Total ...		994	1,836	4,227	423	3,804	152	
Fuleli Canals District.	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	



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
<b>MINOR WORKS—continued.</b>									
<b>IRRIGATION AND NAVIGATION—concluded.</b>									
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>									
<i>Canals in Operation.—concluded.</i>									
Shikárpur District.	Canals	{ Canals in Rohri Sind Canal ... Rajib do. ... Chitti do. ... Garang do. ...	207 612 40 236 140	331 319 24 372 107	632 3,728 67 355 314	63 373 7 36 31	569 3,355 60 319 233	23 134 2 13 11	
Total ...			1,235	1,153	5,096	510	4,586	183	
Western District.	Nára Dis-	{ Nára ... Manchar ... Aral ... New Feeder, Western Nára ... Pritchard Canal ... Wahur ... Marvi ... Dádu Canals ... Phitta ... Canals, north of Kotri ...	227 ... ... ... 123 ... ... ... ... ... 265	123 ... ... ... 353 ... ... ... ... ... 709	634 ... ... ... ... ... ... ... ... ... 978	63 ... ... ... ... ... ... ... ... ... 98	571 ... ... ... ... ... ... ... ... ... 880	23 ... ... ... ... ... ... ... ... ... 35	
Total ...			615	1,186	1,612	161	1,451	58	
Northern Hyderabad Canals District.		{ Mehrabwah ... Naulákhí ... Dámbro ... Other Canals ...	8 ... 233 39	14 ... 395 ... 42	20 ... 370 ... 42	2 ... 27 4	18 ... 333 38	1 ... 13 2	
Total ...			280	409	432	43	339	16	
Central Hyderabad Canals District.		{ Gháro Mahmud ... Kari Shumáli ... Nasir ... Renwáh ... Other Canals ...	519 576 360 ... 13	1,325 1,188 848 ... 32	963 2,511 541 ... 16	96 251 54 ... 2	867 2,260 487 ... 14	35 90 19 ... 1	
Total ...			1,468	3,393	4,031	403	3,628	145	
Fuleli Canals District.		{ Other Canals ...	11	38	30	3	27	1	
Karachi Canals District.		{ Kalri ... Bághar ... Canals in Tatta, etc. ... Uchito ... Pinyári ... Canals in Mirpur Bathoro ... Canals in Sujáwal ... Canals in Jati ... Canals in Sháhbandar ... Khanto ... Kokawári ...	272 231 113 611 2,158 559 465 40 82 179 20	601 432 247 1,257 6,184 1,642 1,394 90 186 517 30	338 289 158 2,368 2,912 940 1,000 64 102 267 31	34 29 16 237 291 94 100 6 10 27 3	304 260 142 2,131 2,621 846 900 58 92 240 28	12 10 6 85 105 34 36 2 4 10 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	

TABLE VII-A—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
<b>MINOR WORKS—concluded.</b>									
<b>AGRICULTURAL WORKS.</b>									
<b>WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.</b>									
Begari Canals District.	Too numerous to mention.	Too numerous to mention.	Kashmor Bund ...	397	59	199	20	179	7
Shikarpur Canals District.			Bunds in Rohri ...	...	...	...	...	...	...
			Sukkur-Begari Bund...	2	...	4	...	4	...
			Kasimpur Bund ...	...	...	...	...	...	...
Total ...				2	...	4	...	4	...
Ghar Canals District.			Ghar Bunds ...	...	...	...	...	...	...
Western Nara District.			Nara Bunds ...	...	...	...	...	...	...
			Manjhand Bunds ...	...	...	...	...	...	...
Total ...				...	...	...	...	...	...
Karachi Canals District.			Bunds, Right Bank ...	23	42	44	4	40	2
			Bunds, Left Bank ...	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.	2,427	2,254	3,622	362	3,260	130
			Shikarpur Canals District ...	2,800	3,379	7,859	786	7,073	282
			Ghar Canals District..	3,140	5,194	6,517	652	5,865	235
			Western Nara District	615	1,185	1,612	161	1,451	58
			Karachi Canals District ...	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.	3,677	4,002	41,295	4,129	37,166	1,487
			Eastern Nara District.	704	522	2,355	236	2,119	84
			Northern Hyderabad Canals District ...	11,771	11,022	31,983	3,198	28,788	1,152
			Central Hyderabad Canals District ...	2,462	5,229	8,258	826	7,432	297
			Fuleli Canals District.	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

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TABLE VIII

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TABLE

## Abstract of Crop Return of Government,

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.
Be ári Canals...	<i>Kharij.</i>								
	Rice...	...	71,711	...	93,972	93,972	...	68,646	68,646
	Jowari ...	45,510	143,173	40,456	130,997	171,453	30,375	105,243	135,618
	Bajri ...	9,280	66,760	10,976	73,567	84,543	10,314	59,421	69,735
	Cotton ...	5	1,507	14	1,823	1,837	14	704	718
	Other Crops .	1,762	63,388	1,295	40,655	41,950	2,142	40,962	43,104
	Total ...	56,557	346,539	52,741	341,014	393,755	42,845	274,976	317,821
	<i>Rabi.</i>								
	Wheat ...	274	52,551	66	35,538	35,604	37	23,345	23,382
	Barley ...	17	121	1	104	105	1	93	94
Shik árpur Canals.	Oil-seeds ...	1,795	43,357	2,960	40,523	43,483	1,268	56,864	58,132
	Other Crops .	50	104,926	27	121,560	121,587	10	108,732	108,742
	Total ...	2,136	200,955	3,054	197,725	200,779	1,316	189,034	190,350
	Grand Total.	58,693	547,494	55,795	538,739	594,534	44,161	464,010	508,171
	<i>Kharij.</i>								
	Rice...	...	48,661	...	59,241	59,241	...	49,087	49,087
	Jowari ...	39,958	89,829	30,837	67,178	98,015	35,671	52,472	88,143
	Bajri ...	4,239	9,411	4,641	10,577	15,218	4,126	7,449	11,575
	Cotton ...	371	1,039	287	1,692	1,979	177	750	927
	Other Crops .	796	10,326	920	10,692	11,612	830	9,832	10,662
Ghar Canals ...	Total ...	46,121	158,509	36,685	149,380	186,065	40,804	119,590	160,394
	<i>Rabi.</i>								
	Wheat ...	681	61,599	1,176	82,048	83,224	1,418	59,201	60,619
	Barley ...	7	233	1	328	329	48	177	225
	Oil-seeds ...	11	10,378	59	20,297	20,356	33	10,343	10,376
	Other Crops..	92	26,869	23	37,633	37,656	42	24,018	24,060
	Total ...	791	99,079	1,259	140,306	141,565	1,541	93,739	95,280
	Grand Total .	46,912	257,588	37,944	289,686	327,630	42,345	213,329	255,674
	<i>Kharij.</i>								
	Rice...	...	235,477	...	255,776	255,776	...	198,926	198,926
Western Nára .	Jowari ...	11,471	62,201	8,623	46,646	55,269	11,527	53,040	64,567
	Bajri ...	413	2,424	372	2,232	2,604	693	2,049	2,742
	Cotton ...	14	98	23	215	238	17	54	71
	Other Crops .	1,643	9,231	849	7,071	7,920	1,987	5,769	7,756
	Total ...	13,541	309,431	9,867	311,940	321,807	14,224	259,838	274,062
	<i>Rabi.</i>								
	Wheat ...	1,302	34,725	1,237	38,874	40,111	749	25,710	26,459
	Barley ...	10	80	8	106	114	14	96	110
	Oil-seeds ...	1,081	38,641	816	43,626	44,442	366	25,498	25,864
	Other Crops .	135	118,639	182	138,186	138,368	215	83,435	83,650
Western Nára .	Total ...	2,528	192,085	2,243	220,792	223,035	1,344	134,739	136,083
	Grand Total.	16,069	501,516	12,110	532,732	544,842	15,568	394,577	410,145
	<i>Kharij.</i>								
	Rice...	17	122,801	8	137,707	137,715	150	119,848	119,998
	Jowari ...	39,779	83,100	42,987	47,208	90,195	41,397	38,853	75,250
	Bajri ...	6,950	4,882	6,845	4,234	11,079	8,311	4,088	12,399
	Cotton ...	315	140	186	126	312	132	27	159
	Other Crops .	880	3,317	724	2,736	3,460	1,473	3,240	4,713
	Total ...	47,941	214,240	50,750	192,011	242,761	51,463	161,056	212,519

## VIII.

## Foreign and Jágir 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	...	Bajri ...
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.
56,943	552,740	609,683	53,132	502,567	555,599	10	90	100	100	Grand Total.
...	55,801	55,801	...	58,354	58,354	...	100	100	...	<i>Kharif.</i>
38,511	83,199	121,710	37,863	35,990	73,853	51	49	100	...	Rice ...
4,540	8,899	13,439	6,469	6,913	13,382	18	53	100	...	Jowari ...
98	505	603	82	320	402	20	80	100	...	Bajri ...
668	9,276	9,944	873	7,608	8,481	10	90	100	...	Cotton ...
43,817	157,680	201,497	45,287	109,185	154,472	29	71	100	57	Other Crops ...
										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	46,213	225,000	271,243	17	83	100	100	Grand Total.
...	177,852	177,852	8	233,657	233,665	...	100	100	...	<i>Kharif.</i>
15,404	95,754	111,158	12,187	27,639	39,828	31	69	100	...	Rice ...
724	2,490	3,214	706	833	1,539	46	54	100	...	Jowari ...
3	18	21	5	7	12	42	58	100	...	Bajri ...
2,488	8,490	10,978	2,020	4,883	6,903	29	71	100	...	Cotton ...
18,619	284,104	302,723	14,926	267,019	281,945	5	95	100	59	Other Crops ...
										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	88	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	115,773	...	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.
4	137,872	137,876	...	163,193	163,193	...	100	100	...	<i>Kharif.</i>
50,445	52,106	102,551	35,414	15,704	51,118	69	31	100	...	Rice ...
5,536	3,234	8,770	11,704	3,261	14,965	78	22	100	...	Jowari ...
131	87	168	149	27	176	85	15	100	...	Bajri ...
1,293	3,583	4,876	1,410	2,653	4,063	35	65	100	...	Cotton ...
57,409	196,832	254,241	48,677	184,838	233,515	21	79	100	61	Other Crops ...
										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— canal.	<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	150,669	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
	<i>Kharij.</i>									
	Rice ...	2	174,671	174,673	82	193,321	193,403	128	166,619	166,747
	Jowari ...	673	1,112	1,785	822	251	1,073	641	20	661
Karachi Canals.	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
Indus Right Bank Division.	Grand Total.	23,560	205,479	229,039	24,337	237,182	261,519	24,510	191,435	215,945
	<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	1,595	1,969
	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	1,397,587	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
Eastern Nara...	Barley ...	425	6,225	6,650	244	17,067	17,311	281	8,068	8,349
	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
	<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	2,385	651	472	1,123
	Bajri ...	23,107	23,232	52,339	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
Eastern Nara...	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 Lift and Flow.	Canals, Districts and Groups.
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	98	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	722,812	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	72,889	82,120	7,828	55,406	63,234	12	88	100	...	Other Crops ...
202,270	1,138,820	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	183,147	192,155	5	95	100	...	Wheat... ..
304	29,583	29,887	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	30,972	2,082	29,986	32,068	6	94	100	...	Wheat... ..
54	276	330	36	270	306	12	88	100	...	Barley... ..
583	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>Kharif.</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	55,319	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>Kharif.</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	47,805	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	3,382	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>Kharif.</i>									
	Rice ...	25	209,662	209,687	13	227,998	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.	
										<i>Kharif.</i>
...	8,825	8,825	...	15,090	15,090	...	100	100	...	Rice ...
70,084	61,856	131,940	65,834	35,743	101,577	65	35	100	...	Jowari ...
44,904	29,691	74,595	59,090	30,089	89,179	66	34	100	...	Bajri ...
6,354	23,227	28,581	6,973	11,241	18,214	38	62	100	...	Cotton ...
4,365	8,725	13,090	5,502	9,906	15,408	36	64	100	...	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	9,807	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	29,571	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	2,548	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	68	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	28,148	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.
Jámrao Canal.	<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
	Bájri ...	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 ...	29,080	88,709	117,789	16,586	62,274	78,860	7,011	30,860	37,871
	Barley ...	261	586	847	197	611	808	112	372	484
Indus Left Bank Division.	Oil-seeds ...	651	3,864	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
	Bájri ...	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 for Sind .	Total ...	573,272	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	5,688	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
Total for Sind .	Jowári ...	225,292	427,443	652,735	208,363	355,350	563,713	184,640	274,242	458,882
	Bájri ...	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	1,385,126	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	386,983	432,490	24,700	209,249	233,949
	Barley ...	813	9,821	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 for Sind .	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.	
										<b>Kharif.</b>
...	499	499	3	965	965	...	100	100	...	Rice ...
2,328	3,460	5,788	974	2,223	3,197	30	70	100	...	Jowari ...
26,522	35,899	62,421	19,742	28,490	48,232	41	59	100	...	Bajri ...
31,593	80,713	112,251	24,721	50,103	74,824	33	67	100	...	Cotton ...
1,529	5,110	6,639	1,345	5,143	6,488	21	79	100	...	Other Crops ...
61,912	125,686	187,598	46,784	86,923	133,713	35	65	100	74	Total.
										<b>Rabi.</b>
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.
										<b>Kharif.</b>
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	...	Jowari ...
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.
										<b>Rabi.</b>
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.
										<b>Kharif.</b>
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	...	Jowari ...
405,695	212,678	618,373	382,396	159,705	542,101	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	73,586	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.
										<b>Rabi.</b>
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.

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.	
<b>Indus Right Bank Division.</b>																
UPPER SIND FERTILE.	Begāri Canals ...	Kāshmor ...	0 6	...	0 65	2 30	...	...	...	0 12	0 50	...	...	3 64	4 75	
		Kandkot ...	0 25	...	0 23	2 7	...	...	...	...	0 5	0 52	...	...	3 46	5 55
		Jacobabad ...	0 38	...	0 1	0 7	0 45	...	...	...	0 8	1 13	...	...	2 10	3 83
		Tbul ...	0 7	...	0 13	0 33	...	0 3	...	...	0 3	0 65	...	...	1 24	2 12
		Shāhdādpur ...	0 3	...	...	1 9	...	...	...	...	0 35	0 60	...	...	2 7	2 45
		Average ...	...	...	...	...	...	...	...	...	...	...	...	...	2 5	3 81
Mean average of 10 years ...													3 29			
SUKKUR COLLECTORATE.	Shikārpur Canals.	Uhauro ...	0 14	...	0 40	1 8	...	...	...	0 24	0 18	...	...	2 4	5 77	
		Mirpur Māthelo ...	0 11	...	1 40	0 91	...	...	...	...	0 16	0 37	...	...	2 95	3 38
		Ghotki ...	0 23	...	0 6	1 60	...	...	...	...	0 10	0 52	...	...	2 81	1 85
		Rohri ...	0 13	...	0 13	1 31	...	...	...	...	0 20	0 60	...	...	2 57	1 85
		Sukkur ...	0 22	...	0 5	0 87	...	...	...	...	0 18	1 0	...	...	2 32	1 97
		Shikārpur ...	0 8	...	0 20	0 37	...	...	...	...	0 3	1 0	...	...	1 68	3 55
Garhi Yasin ...	...	...	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.	Ghār Canals ...	Ratodero ...	0 7	...	...	0 10	...	...	...	0 12	1 3	...	...	1 37	3 6	
		Larkāna ...	0 9	...	...	0 28	0 5	...	...	...	0 5	0 95	...	...	1 35	1 92
		Kambar ...	0 6	...	...	0 10	...	...	...	...	0 13	0 68	...	...	1 6	1 35
		Bakrāni ...	0 2	...	...	0 31	...	...	...	...	0 14	0 75	...	...	1 22	0 69
		Wārrah ...	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 Nāra ...	Mehar ...	0 6	...	...	1 17	...	0 20	...	...	0 15	0 73	...	...	2 36	2 71	
	Khairpur Nātheshāh ...	0 16	0 9	0 19	1 17	...	0 17	...	...	0 25	0 64	...	...	2 67	2 62	
	Dādū ...	...	0 1	0 6	1 46	...	...	...	...	0 34	0 70	...	...	2 56	1 83	
	Johi ...	0 2	...	...	0 87	...	1 25	...	...	0 35	0 73	...	...	3 22	3 81	
	Shwan ...	0 50	...	0 17	4 43	...	0 47	...	...	0 51	2 1	...	...	8 9	6 28	
	Mānjhand ...	0 22	...	...	0 60	...	0 12	...	...	0 10	0 94	...	...	1 33	10 59	
Kotri ...	...	...	...	4 87	0 13	0 42	...	...	0 2	0 13	...	...	5 57	22 88		
Average ...													3 60	7 24		
Mean average of 10 years ...													4 28			
KARACHI COLLECTORATE.	Karāchi Canals ...	Bulakhan's Thana ...	0 50	...	...	0 98	1 48	0 39	...	0 30	0 15	...	...	3 89	22 24	

*Memorandum showing the amounts of loss to Canals on account of difference between the assessments of water-rates on Jágir 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.
<b>MAJOR WORKS.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	
<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	
<b>Total ...</b>	<b>35,35,129</b>	<b>2,21,608</b>	<b>37,56,737</b>	
<b>MINOR WORKS AND NAVIGATION.</b>				
<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	
<b>Total ...</b>	<b>59,99,101</b>	<b>2,00,964</b>	<b>62,00,065</b>	
<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	...	
<b>Total ...</b>	<b>...</b>	<b>1,92,893</b>	<b>...</b>	
<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	...	
<b>Total ...</b>	<b>...</b>	<b>15,324</b>	<b>...</b>	
<b>GRAND TOTAL ...</b>	<b>...</b>	<b>...</b>	<b>...</b>	

V. C. FRENCH,

Deputy Accountant General, Public Works.



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STATISTICAL STATEMENTS

FOR

IRRIGATION WORKS, SIND,

FOR THE YEAR 1909-1910.

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## STATEMENT

## Statement of Canals in the Indus

1	MAJOR WORKS.			
	Begari Canals District.			
	Desert Canal.	Unharwah.	Begari Canal.	Total.
	2	3	4	5
Source of supply of water ... ..	River Indus.	Wahur Dhand ex River Indus.	Wadhu Dhand ex 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.*

	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. ... 3,553 240 200,251 120,594 65,950 65,950	River Indus. ..... 2,618 242 246,713 162,118 90,000 90,000	River Indus. ... 6,806 179 505,649 395,944 250,000 250,000	River Indus. ..... 646 807 61,102 23,757 23,757 16,764	Dhands <i>ex</i> River Indus. ... ... 240 477,924 401,764 244,995 244,995	Dhands <i>ex</i> River Indus. ... ... 43 990,586 715,718 405,311 397,636	River Indus. ..... ... 70 6,158,771 1,799,083 1,295,923 239,533
9,36,837 1,29,503 3,60,883	13,64,754 61,496 .....	5,41,696 30,690 ...	1,73,972 6,028 .....	... ... ...	... ... ...	..... ..... .....
14,27,223	14,26,250	5,72,386	1,80,000	...	...	...
13,21,850 57,302 3,60,883	13,64,754 61,496 .....	5,41,696 30,690 ...	1,73,972 6,028 .....	... ... ...	... ... ...	..... ..... .....
17,40,035	14,26,250	5,72,386	1,80,000	...	...	...
29 168 87	74 56 .....	67 230 ...	31 6 .....	191 90 ...	348 316 9	454 477 .....
...	.....	103	6	...	261	159
29 168 87	74 56 .....	67 230 ...	31 6 .....	191 90 ...	348 316 9	454 477 .....
...	.....	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	1,018,800	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 Kacheri.	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 Nara.	Eastern Nara.		Indus.	Indus.	Indus.		Indus.	Indus.		Indus.	Indus.	Indus.
...	...	...	31,000	31,000	31,000	...	31,000	32,000	...	31,000	31,000	31,000
...	...	...	599	1,556	1,161	...	10,000	1,000	...	...	...	...
5-87	13-57	...	6-36	6-38	6-79	...	10-42	5-07	...	5-15	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	930,000	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	95,900
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	1,18,559	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	21,30,960	2,97,735	24,78,695	...	...	...
...	...	65,48,368	23,207	2,07,438	1,18,559	3,40,202	19,18,446	2,31,400	21,94,410	...	...	...
...	...	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	2,91,845	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.	Estab- lish- ment.	Tools and Plant.	Total.	Deduct Receipts on Capital Account.	Total.	Capitali- zation.	Leave and Pension Allowances.	Total.
	2	3	4	5	6	7	8	9	10
<b>MAJOR WORKS.</b>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>PRODUCTIVE WORKS.</b>									
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
<b>MINOR WORKS AND NAVIGATION.</b>									
10. Sukkur Canal ... ..	...	...	...	...	...	...	...	...	...
11. Ghárf 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
<b>GRAND TOTAL ...</b>	<b>1,45,071</b>	<b>56,835</b>	<b>2,071 } 17 }</b>	<b>2,03,994</b>	<b>...</b>	<b>2,03,994</b>	<b>1,574</b>	<b>7,957</b>	<b>9,531</b>

(a) Suspense Account.

## I—B.

in Sind for and to end of 1909-1910.

Grand Total.	TO END OF YEAR.									
	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	32,853	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	2,07,10,372	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	41,080	61,496	14,26,250
...	4,41,495	97,299	2,902	5,41,696	...	5,41,696	12,536	18,154	30,690	5,72,386
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	49,286	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	3,10,48,448

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 Improve- ment.	Establishment.		
	Direct.	Indirect.			Total.								Direc- tion.	Execu- tive.	Civil Officers.
		Water- rates directly paid.	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	9	10	11	12	13	14	15	16
MAJOR WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
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	...	...	17,167
2. Unharwāh' ...	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. Begāri 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. Mahiwāh ...	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 Nāra 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. Jāmrao Canal ...	1,245	5,35,784	38,372	5,74,156	5,75,401	145	18,848	5,94,394	...	5,94,394	...	5,94,394	...	42,810	16,527
7. Dād 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. Nasrāt do. ...	—311	2,57,571	8,299	2,65,970	2,65,559	186	1,940	2,67,685	...	2,67,685	72,654	1,94,831	...	...	18,339
9. Naulākhī 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. Ghār 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. Mārak 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. Surfrazwāh ...	2,969	57,343	1,292	58,640	61,509	...	767	62,216	...	62,216	16,806	43,410	...	...	4,366
16. Fuleh 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	392	42,630	42,336	...	911	43,247	...	43,247	5,916	87,331	...	...	2,622
Total ..	43,797	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.		
ment.	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.	Indirect.	Total.				
	Direction.	Executive.	Total.															
Total Revenue Management.	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.	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	
11,647	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	6,196	2,106	73,986	...	453	...	82,740	1,182	1,30,127	8,757	2	8,751	1,11,368	4,67,541	4,42,067	
14,616	1,365	-5,110	-3,745	2,829	41,016	...	...	80	40,174	-524	54,286	21,007	273	21,280	33,006	1,57,293	68,076	
34,761	7,741	33,595	41,344	2,062	1,18,658	17	1,124	1,536	1,64,741	5,788	2,06,290	344	...	344	2,04,946	8,85,030	8,61,930	
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	63,840	2,564	1,05,356	44,076	1,188	45,214	60,142	1,69,994	1,31,296	
16,339	3,285	11,230	14,515	1,032	51,318	...	484	417	67,716	2,032	86,087	19,355	453	19,400	66,279	1,61,598	1,28,553	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2,09,074	31,542	1,36,916	1,70,458	18,670	5,90,969	-325	20,567	4,926	8,05,255	30,503	10,44,832	93,539	1,806	95,405	9,49,427	20,25,168	18,16,243	
19,180	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	1,20,795	...	1,517	-20	1,59,230	5,095	2,14,357	18,681	161	18,441	1,95,516	5,42,402	4,25,731	
2,316	708	2,096	2,804	70	21,644	...	...	-361	24,163	893	26,972	8,991	225	9,218	17,651	10,373	8,443	
2,261	236	608	844	...	8,688	...	...	-53	4,479	110	6,839	9,071	184	9,266	-2,407	20,163	11,924	
11,030	1,267	3,266	4,533	...	19,811	...	...	-286	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	...	604	-199	16,697	441	21,504	7,651	170	7,821	13,683	40,712	29,717	
57,135	10,443	33,554	43,997	5,091	1,58,006	...	319	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	22,681	673	25,976	3,380	78	3,458	22,518	17,271	14,813	
1,43,942	20,240	85,684	1,06,124	13,680	3,98,806	...	2,963	-6	5,21,573	15,223	6,85,743	1,98,281	3,451	2,01,732	4,84,011	14,67,436	10,86,401	
3,58,016	51,782	2,24,800	2,76,582	32,359	9,59,777	-325	23,520	4,920	13,26,833	45,726	17,30,575	2,91,831	5,817	2,97,137	14,33,438	34,92,593	29,02,733	
1,46,875	20,840	68,970	89,810	51,227	4,80,325	...	...	-2,535	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 Outlay 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 Improvements.	Total Charges, Direct and Indirect.	Deduct—Old Maintenance charges.	Total, Working Expenses on Improvements.				Amount.	Percentage on Capital Outlay.	Amount.	Percentage on Capital Outlay.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>MAJOR WORKS.</b>														
<b>PRODUCTIVE WORKS.</b>														
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. Unharwāh ... ..	7,99,132	1,97,049	...	1,97,049	39,443	...	39,443	1,57,606	22'23	23,018	1,34,588	18'08	...	...
3. Begāri 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. Mahiwāh ... ..	13,79,152	2,11,579	1,10,497	1,01,082	54,286	21,280	33,006	68,076	4'94	44,388	23,688	1'72	...	...
5. Eastern Nāra 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	1,03,436	2'40	...	...
6. Jāmrao Canal ... ..	82,41,283	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. Dād do. ... ..	28,50,595	2,75,350	83,913	1,91,437	1,05,356	45,214	60,142	1,31,295	5'59	75,936	55,359	2'36	...	...
8. Naerat do. ... ..	18,59,928	2,67,685	72,554	1,94,831	88,087	19,808	66,279	1,28,552	6'91	60,699	67,853	3'65	...	...
9. Nāulākhī 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	9,66,387	3'63	...	...
<b>MINOR WORKS AND NAVIGATION.</b>														
10. Sukkur Canal ... ..	14,26,250	2,65,855	84,806	1,81,049	83,463	13,362	70,100	1,10,940	7'78	45,523	65,121	4'57	...	...
11. Ghār do. ... ..	5,72,386	7,56,759	1,35,512	6,21,247	2,14,867	18,841	1,95,516	4,25,731	74'38	18,190	4,07,541	71'20	...	...
12. Suttah do. ... ..	1,80,000	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. Mārak Great Canal ... ..	2,15,746	1,47,724	59,437	88,287	35,723	23,405	12,318	75,939	35'21	6,966	69,008	31'98	...	...
15. Surfrazwah ... ..	1,24,680	62,216	18,906	43,410	21,504	7,821	13,683	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	20'86	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	14,813	5'02	9,379	5,434	1'84	...	...
Total, Minor Works and Navigation ... ..	48,22,485	21,53,178	5,82,676	15,70,502	6,85,743	2,01,732	4,84,011	10,96,491	22'63	1,55,214	9,31,277	19'31	...	...
GRAND TOTAL ... ..	3,10,48,443	52,23,168	8,86,997	43,36,171	17,30,575	2,97,137	14,33,438	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
MAJOR WORKS.				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
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	Unharwāh	...	...	17,178	1,84,663	2,01,841	52	2,01,789	4,740	1,97,049	...	1,97,049
3	Begāri 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	Mahiwāh	...	...	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 Nāra 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	Jāmrāo 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	Dād 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	Naulākhi do. (b)	...	...	...	...	...	...	...	...	...	...	...
	Total, Major Works	...	...	3,75,084	29,50,272	33,25,356	15,851	33,09,455	2,39,465	30,69,990	8,04,321	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	84,806	1,81,049
11	Ghār 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	88,287
15	Sufrazwah	...	...	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
	MAJOR WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	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	1,37,223	26,92,240	70,804
	MINOR WORKS AND NAVIGATION.							
10	Sukkur Canal ... ..	14,26,250	1,601	200	2,405	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.		Percent- age on Capital Outlay to end of year (Im- prove- ments only).
—Land tion of	Refund of Revenue.	Grand Total.	Deduct— Share due to old Irrigation.	Total Revenue due to Improve- ments.	Total Charges, Direct and Indirect.	Deduct— Old Main- tenance Charges.	Total Work- ing Expenses on Improve- ments.	Total.	Due to Improve- ments.	
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	68,647	4.93
5,53,272	...	5,76,177	3,444	5,72,733	2,05,290	344	2,04,946	3,70,887	3,67,787	5.43
5,27,384	...	5,47,824	...	5,47,824	3,05,268	...	3,05,268	2,42,556	2,42,556	2.94
2,61,717	...	2,68,422	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	...	2,64,323	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
38,389	...	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	11,668	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	37,808	26,823	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.									Total.	In operation.				
		Desert Canal.	Unharwāh	Begāri Canal.	Mahī-wāh.	Eastern Nara Works.	Jāmrao Canal.	Dād Canal.	Nas-rat Canal.	Naulakhi Canal.		Sukkur Canal.	Ghār Canal.	Buttah Canal.	Alibhar Kacheri Canal.	Marak Great Canal.
Capital Outlay.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
During year...	Direct ...	...	9,642	84,008	...	26,792	79,328	6,151	—6,418	...	1,99,501	...	...	284	...	...
	Indirect...	...	252	2,190	...	1,867	2,780	347	442	...	7,846	...	...	1,574	...	...
	Total ...	...	9,894	86,198	...	28,659	82,078	6,498	—5,976	...	2,07,349	...	...	1,858	...	...
To end of year.	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...	Direct ...	1,01,774	958	43,131	4,558	23,572	20,238	4,644	1,084	...	1,99,969	4,078	16,040	803	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.	Direct ...	13,74,046	8,223	11,25,394	10,610	11,34,366	5,62,732	13,329	4,061	...	42,32,781	78,714	4,48,706	719	25,567	1,21,703
	Indirect...	46,23,250	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.		
Sur-frazwāh.	Fuleh Canal.	Hassan-ali Canal.	Total.		Shikārpur Canals District.	Western Nara District.	Karāchi Canals District.	Survey and Construction District.	Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleh Canals District.	Total.	BEGARI CANALS DISTRICT.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
		4,209	4,493	2,03,994									Kashmor Bund { Extensions and Improvements. 377		...
													Maintenance and Repairs. 43,881		...
													Khelat Survey ... 158		...
													Extending Kunderwāh to feed Gonspur Branch ... 6,148		...
													Constructing new Gonspur Loop ... 37,628		...
													Do. a compound wall and providing a punkha for the subordinates' quarters at Gonspur. 358		...
													Re-constructing the old Tori Bund ... 20,889		...
													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		...
													Extending Channel ex Unharwāh, mile 3.7 Right Bank. 224		...
		109	1,633	9,531									Begari Canal—Maintenance and Repairs. 5,383		...
													Establishment { Direction and Accounts. 11,488		...
													Executive ... 42,802		...
		4,318	6,176	2,13,523									Tools and Plant ... 2,217		...
													Suspense Account ... 1,193		...
													Share of collection charges ... 4,204		...
													Direct Receipts ... 2,337		...
													Irrigation share of Land Revenue ... 47,553		...
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands. 363		...
													Total, Begari Canals District ... 2,06,861		50,351
													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 Hassanwāh on Abud Bund. 1,825		...
													Nara Bund { Extensions and Improvements. 2,027		...
6,121	71,215	13,445	1,08,015	10,15,861									Maintenance and Repairs. 24,701		...
													Constructing a Bund in Batho Forest. 1,788		...
													Bunds north of Kotri { Extensions and Improvements. 68		...
													Maintenance and Repairs. 2,650		...
1,21,680	18,84,661	2,94,815	48,22,465	3,10,48,448									Establishment { Direction and Accounts. 1,863		...
													Executive ... 6,708		...
													Tools and Plant ... 99		...
													Suspense Account ... 278		...
													Share of collection charges ... 643		...
													Direct Receipts ... 557		...
													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		11,277
													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		2,607	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	4,90,628	9,83,111	4,68,578		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 Karia Arwāh. 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 { Maintenance and Repairs. 29,704		...
													Bund. 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	4,43,51,119	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		61,828

## General Abstract of Financial Results of Irrigation

		MAJOR WORKS—PRODUCTIVE WORKS.										MINOR WORKS AND NAVIGATION— AND REVENUE ACCOUNTS				
		In operation.									Total.	In operation.				
		Desert Canal.	Unharwah.	Begri Canal.	Mahiwah.	Eastern Nara Works.	Jamrao Canal.	Dad Canal.	Nasrat Canal.	Naulakhi Canal.		Sukkur Canal.	Ghar 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	17,488	—2,338	12,110
	Indirect...	1,285	236	1,150	—797	5,758	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	2,04,916	3,05,266	60,147	66,279	...	9,49,432	70,100	1,95,416	17,656	—2,407	12,318
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	14,282	90,047	—1,329	1,93,605	1,40,440	14,369	8,375	...	5,16,827	58,630	1,68,131	215	3,619	22,525
Total ...		26,69,525	8,72,754	39,51,255	3,46,315	57,85,756	27,44,599	6,12,016	3,66,306	...	1,73,48,527	21,30,204	68,18,259	53,691	1,05,079	7,65,972
<i>Net Revenue.</i>																
During year ...		2,16,970	1,57,696	4,42,687	68,076	3,91,980	2,89,126	1,31,205	1,28,562	...	18,16,242	1,10,949	4,25,731	3,44	11,824	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	2,04,512	6,06,050	...	2,96,36,898	20,39,445	1,71,55,216	21,460	1,10,919	15,11,586

## 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.	Kardahi Canals District.	Survey and Construction District.	Northern Hyderabad Canals District.	Central Hyderabad Canals District.	Fuleli Canals District.	Total.		Expenditure.	Receipts.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
													Brought forward ...	4,00,812	61,628
													SHIKARPUR CANALS DISTRICT—contd.	3,86,251	...
													Mahiwah { Extensions and Improvements, Maintenance and Repairs.	88	...
													Establishment { Direction and Accounts, Executive.	10,087	...
													Tools and Plant	19,897	...
													Suspense Account	69,435	...
													Share of collection charges	3,394	...
													Direct Receipts	-32,359	...
													Irrigation share of Land Revenue	10,355	...
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands.	2,864	...
13,412	1,50,505	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	Total, Shikarpur Canals District ...	4,76,032	1,37,003
271	4,061	595	11,772	40,409	...	...	...	...	...	...	...	...	GHAR CANALS DISTRICT.		
													Ghar Bunde { Maintenance and Repairs, Extensions and Improvements.	8,879	...
													Sukkur Canal—Maintenance and Repairs.	904	...
													Ghar Canal—do.	4,021	...
13,083	1,51,029	22,518	4,84,011	14,38,443	1,22,974	1,08,801	2,40,889	...	88,360	86,070	22,007	7,65,701	Establishment { Direction and Accounts, Executive.	4,135	...
													Tools and Plant	692	...
													Suspense Account	3,251	...
													Share of collection charges	134	...
													Direct Receipts	-745	...
													Irrigation share of Land Revenue	22,300	...
													Four per cent. on 9/10ths of receipts from sale of occupancy rights on lands.	399	...
													Total, Ghar Canals District ...	2,24,716	27
													KARACHI CANALS DISTRICT.	43,821	2,25,052
4,70,622	69,68,689	1,23,800	1,71,01,695	3,40,23,395	...	...	...	...	...	...	...	...	Bunde Right Bank { Extensions and Improvements, Maintenance and Repairs.	2,155	...
													Constructing a new Inspection chowkey and outhouses at Savalpur.	2,115	...
15,861	2,07,875	3,808	4,50,608	9,97,492	...	...	...	...	...	...	...	...	Strengthening the old Panah Bund at Kathian.	3,784	...
													Panah Baghar Bund—Maintenance and Repairs.	3,669	...
													Baghar Uchito Bund { Extensions and Improvements, Maintenance and Repairs.	6,904	...
4,95,486	71,76,464	1,27,205	1,76,72,365	3,50,20,887	...	...	...	...	...	...	...	...	Sandah Hilaya Bund—Maintenance and Repairs.	2,981	...
													Constructing an embankment for the purpose of confining flood water within Huddarani and Panah Forest.	32,005	...
													Bunde, Left Bank { Extensions and Improvements, Maintenance and Repairs.	3,849	...
													Khanto Embankment—Maintenance of.	1,998	...
													Kokawari Bund—do.	2,595	...
													Kokawari Bund—Constructing a loop on the.	914	...
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	Mulchand Shahbunder Bunde—Extensions and Improvements.	1,828	...
													Mulchand Shahbunder Bunde—Maintenance and Repairs.	8,906	...
													Constructing a Loop bund for the proposed new Head Regulator of Mirwah Nawab.	32,627	...
													Constructing a Loop bund for the proposed new Head Regulator of Mahomedwah.	3,807	...
3,60,946	50,79,677	51,808	3,93,61,147	5,69,98,045	...	...	...	...	...	...	...	...	Sattah Canal—Extensions and Improvements.	1,12,997	...
													do. Maintenance and Repairs.	1,700	...
													Establishment { Direction and Accounts, Executive.	1,000	...
													Tools and Plant	1,994	...
													Suspense Accounts	4,267	...
													Carried over ...	42,076	...
														3,366	...
														-3,542	...
														3,85,574	...
														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.	Alibhar Kacheri Canal.	Marak Great Canal.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Style Interest.																	
During year	...	88,054	23,018	70,395	44,388	2,19,444	2,67,740	75,936	60,609	172	8,49,855	...	...	...	...	...	
To end of year	...	19,46,527	5,06,126	23,94,681	3,60,893	88,37,456	85,72,339	8,15,326	4,78,894	1,213	1,84,13,445	...	...	...	...	...	
Net Profit after paying off Interest.																	
During year	...	1,28,916	1,34,558	3,72,292	23,698	1,62,486	21,377	53,359	67,653	-172	9,66,387	...	...	...	...	...	



## 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.		
Sir- frazwah.	Fuleli Canal.	Hassan- ali Canal.	Total.	Grand Total.	Shikar- pur Canals District.	Western Nara District.	Karachi Canals District.	Survey and Con- struction District.	Northern Hyder- abad Canals District.	Central Hyder- abad Canals District.	Fuleli Canals District.	Total.		Expend- iture.	Re- ceipts.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
													Brought forward ...	9,20,765	4,24,343
													KARACHI CANALS DISTRICT— continued.	3,85,574	...
													Mathematical Instrument Depot— Tools and Plant.	32,858	...
													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 pro- posed barrage at Sukkur.	1,731	...
													Making survey on the Indus	24,285	...
													Maintaining Steamers, gauges, and snagging Indus.	21,311	...
													Store room at Sukkur	70	...
													Beacons at Seer Kajur, Mull and Hajjura mouths.	17	...
													Repairs and re-erectations of beacons along the Indus.	57	...
													Excavating a trench in wet earth in front of the Kotri Gauge.	89	...
													Assistant Engineer's Office at Kotri.	128	...
													Bukkur Din Bello and outfall gauges.	185	...
													Maintaining a central passage clear of forest.	132	...
													Establishment ... { Direction and Accounts.	1,201	...
													Executive ...	80,305	...
													Tools and Plant	5,126	...
													Suspense Account	—472	...
													Direct Receipts	...	194
													Total, Indus River Commission District	1,45,131	194
													NORTHERN HYDERABAD CANALS DISTRICT.		
													Constructing a bund between Nasrat and Naulaki Canals.	6,909	...
													Extensions and improvements.	451	...
													Naulakhi Bhorti } Maintenance and Bund. Repairs.	2,900	...
													Canal Chowki at Dawlatpur—Main- tenance of the.	387	...
													Indus survey marks—Maintenance of the.	5	...
													Experimenting on the cultivation of Borsin in the shera garden.	17	...
													Survey of the Rohri Hyderabad Canal Project.	3,021	...
													Extensions and improvements.	4,608	...
													Dad Canal ... { Maintenance and Repairs.	23,211	...
													Extensions and improvements.	108	...
													Nasrat Canal ... { Maintenance and Repairs.	10,709	...
													Establishment. { Direction and Ac- counts.	2,644	...
													Executive ...	59,026	...
													Tools and Plant	701	...
													Suspense Account	2,193	...
													Share of collection charges	13,116	...
													Direct receipts after deducting refunds of revenue.	...	3,722
													Irrigation share of Land Revenue	...	1,52,275
													Four per cent. on 9 10ths of receipts from sale of occupancy rights in lands.	...	996
													Total, Northern Hyderabad Canals District	1,30,174	1,56,943
													CENTRAL HYDERABAD CANALS DISTRICT.		
													Reinwah Loop—Maintenance and Repairs.	636	...
													Alibhar Kacheri Canal—Main- tenance and Repairs.	5,938	...
													Marak Great Canal do. do.	13,997	...
													Sarfranzwah do. do.	4,557	...
													Establishment. { Direction and Ac- counts.	958	...
													Executive ...	4,801	...
													Tools and Plant	10	...
													Suspense Account	—44	...
													Cost of collection charges	9,575	...
													Direct Receipts	...	400
													Irrigation share of Land Revenue	...	95,743
													Four per cent. on 9 10ths of receipts from sale of occupancy rights on lands.	...	...
													Total, Central Hyderabad Canals District	40,516	96,143
													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.	Sukkur 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.								Expenditure on and Receipts from Agricultural Works for which neither Capital nor Revenue Accounts are kept.		
Sur-frazwah.	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.	Total.		Expenditure.	Receipts.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
													Brought over	15,67,418	7,15,561
													<b>FULELI CANALS DISTRICT.</b>		
													Extending Jamsharo Bund to Sepki Main.	9,198	...
													Constructing Sang Dadko Loop	60,994	...
													Closing breaches on the Sang Bund	2,161	...
													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	17,906	...
													Needles in sluices of Hajipur and Budka Bunds.	394	...
													Ghallian Bund	470	...
													Jamshahro Bund	1,960	...
													Sluices in Sang Bund	874	...
													Gidu Bander Bund	1,309	...
													Fuleli Canal	74,842	...
													Establishment. { Direction and Accounts.	10,243	...
													Executive	34,866	...
													Extensions and Improvements.	817	...
													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
													<b>JAMRAO CANAL DISTRICT</b>		
													Direct Receipts	...	1
													<b>EASTERN NARA DISTRICT.</b>		
													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	9,89,494

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
Jámráo 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
Márak 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

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

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S T A T E M E N T I—E.

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## 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.
1	2	3	4	5	6	7	8	9
<b>MAJOR WORKS.</b>								
<b>PRODUCTIVE WORKS.</b>								
							<i>Indus Right</i>	
Shikárpur Canals District. { Mahiwáh ... ..	46,893	38,138	85,031	46,634	38,034	84,668	118	
Pegári 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
<b>MINOR WORKS.</b>								
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>								
Ghár Canals District. {	Sukkur Canal ... ..	74,301	57,506	131,807	74,232	55,692	129,924	103   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	
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>								
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 ... ..	198,740	123,995	322,735	190,393	118,539	308,932	133
Western Nara District. {	New Feeder to Western Nara ... ..							
	Pritchard Canal ... ..							
	Marvi ... ..	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
Karáchi Canals District. {	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
	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
<b>MAJOR WORKS.</b>								
							<i>Indus Left</i>	
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	183
	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
<b>MINOR WORKS.</b>								
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>								
Central Hyderabad Canals District. {	Alibhár Kacheri ... ..	11,768	285	12,053	11,768	285	12,053	114
	Márak ... ..	56,770	3,311	60,081	56,687	3,311	59,998	115
	Saríraz ... ..	32,665	1,205	33,870	32,665	1,205	33,870	117
	Fuleli ... ..	321,738	49,105	370,843	318,972	48,799	367,771	183   162
Fuleli Canals District. {	Hassanali ... ..	17,440	345	17,785	17,259	345	17,604	130
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>								
Northern Hyderabad Canals District. {	Mehráb ... ..	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.				$\Delta$ = 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.	20
Bank Division.										
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		5,296		58		59		4.5		
138		138		35		35		7.1		
209		209		47		47		5.5		
99		99		56		56		3.4		
+ 61		+ 61								
2,030		2,030		14		14		14.1		
- 662		- 662								
621		621		22		22		11		
138		138		19		19		11.3		
783		783		25		25		11.9		The high $\Delta$ 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 $\Delta$ is due to a large quantity of water running to waste into the sea.
3,270		3,270		26		26		18.0		
5,521		5,521		7		7		100.5		
Bank Division.										
2,173	1,811	2,170	1,811	60	25	60	25	6.1	14.0*	*The high rabi $\Delta$ is partly due to 74,826 acres of cotton, a kharif crop being watered for a few months in the rabi season.
3,844		3,844		23		29		7.4		
1,591		1,601		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   25		94   28		3.3   10.8		
87		87		65		65		4.2		
361		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		§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.
1,835		1,835		27		27		8.4		
323		323		47		47		4.2		

## 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.	
		Occupier's.	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
<b>MAJOR WORKS.</b>																
<i>Productive Works.</i>																
Shikarpur District. Canals Mahiwah ...	1,812	1,044	...	1,044	2,06,290	2,07,334	2,12,150	54,286	78,200	25'60	'69	30'00	2'69	111'32	2'65	114'42
Begari Canals District. { Desert Canal ...	2,873	91,753	...	91,753	2,34,311	3,26,064	3,37,586	1,28,975	177,308	30'37	'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	30,413	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	5,66,553	5,69,404	1,20,127	230,752	21'10	'62	45'71	2'79	200'18	2'45	215'62
Jamrao Canal District. Jamrao Canal ...	1,996	1,447	...	1,447	5,27,384	5,28,831	5,47,824	3,05,265	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	30'25	'98	27'41	2'57	66'51	2'45	68'53
Nasrat Canal ...	1,591	138	...	138	2,61,782	2,61,920	2,64,046	86,087	84,085	32'00	1'02	54'11	3'03	159'32	3'11	164'63
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	2'59	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	'91	...	2'61	...	2'53	...
<b>MINOR WORKS.</b>																
<i>Works for which Capital and Revenue Accounts are kept.</i>																
Ghar Canals District. { Sukkur Canal ...	2,307	1,601	...	1,601	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	7,53,523	2,14,351	230,333	28'45	'93	50'16	3'33	171'83	3'22	173'58
Karachi Canals District. Satta Canal ...	646	66	...	66	36,383	38,455	39,240	26,872	16,402	68'48	1'64	41'60	2'93	58'70	2'34	59'53
Central Hyderabad Canals District. { Alibhar Kacheri ...	368	422	...	422	26,115	26,537	26,766	6,859	12,017	25'63	'57	13'74	2'34	69'06	2'21	72'51
Marak ...	1,267	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
Sarfriz ...	816	2,077	...	2,077	56,528	58,605	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	366,464	34'58	'74	53'76	2'59	158'27	2'10	167'14
Hassanali Canal ...	660	458	...	458	43,496	44,154	45,065	25,976	17,750	57'61	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	'83	...	2'79	...	2'53	...
Grand Total ...	...	1,70,029	...	1,70,029	48,13,518	49,83,547	50,67,495	17,30,575	1,971,479	34'15	'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:—

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

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

	Kharif.	Rabi.	Total.
Acres	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.

SHIKÁRPUK CANALS DISTRICT—continued.										
Description of Crops.	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	

SHIKÁRPUK CANALS DISTRICT—continued.										
Description of Crops.		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	320	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

Description of Crops.		SHIKÁRPUK CANALS DISTRICT—concluded.						GHÁR CANALS DISTRICT.		
		Kásimpur Bund.			Total.			Sakkur 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	78,853	13,74,174	19	15,559	4,62,532	26
	Bájrí ...	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 ...	18	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	12,860	2,32,162	19	6,634	1,20,716	18
	Other crops ...	174	2,110	12	35,811	5,88,235	16	33,393	8,55,388	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.		GHAR 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	... 178,730	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
	{ Bājri	... 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	9,61,038	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 NARA DISTRICT.			KARACHI 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
	Jowari ...	51,118	9,37,483	18	1,025	4,668	5	334,934	84,93,229	25
	Bajri ...	14,965	3,17,503	21	26,436	2,21,550	8	119,245	26,81,866	22
	Cotton ...	176	3,180	18	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.		JÁMRÁO CANAL DISTRICT.			EASTERN NÁRA DISTRICT.					
		Jámráo 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	15	27	344	13
	{ Bájri ...	48,232	5,27,710	11	33	495	15	10,607	1,81,056	17
	{ Cotton ...	74,828	35,81,845	48	29	435	15	7,541	4,42,803	59
	{ Other crops ...	6,488	88,167	14	59	1,620	27	243	3,515	14
	Total ...	133,713	42,51,062	32	296	5,175	17	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	12	176	2,107	12
	{ Oil-seeds ...	5,498	54,608	10	369	4,564	12	4,149	31,950	8
	{ Other crops ...	8,024	89,959	11	852	8,352	10	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
	Bájrí ...	9,787	1,49,026	15	1,398	28,448	20	1,809	30,380
	Cotton ...	5,908	3,62,757	61	1,945	68,072	35	2,514	1,50,862
	Other crops...	498	18,472	37	527	12,365	23	55	274
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
	Barley ...	118	1,063	9	1	8	8	1	16
	Oil-seeds ...	786	6,263	8	669	4,011	6	772	6,170
	Other crops...	3,358	38,872	12	1,927	22,965	12	16	762
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	13	385	5,352
	Bájrí ...	636	8,611	14	10,000	1,67,920	17	34,270	5,65,936
	Cotton ...	153	9,671	63	2,453	1,45,816	59	20,543	11,80,416
	Other crops...	13	753	58	330	12,546	38	1,725	49,545
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	23	32,068	7,67,978
	Barley ...	...	...	...	9	79	9	306	3,285
	Oil-seeds ...	289	2,265	8	549	4,403	8	7,583	59,626
	Other crops...	18	1,247	69	187	6,607	35	9,564	1,14,926
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.

NORTHERN HYDERABAD CANALS DISTRICT.										
Description of Crops.	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
	{ Jowari ...	24,462	6,06,552	24	28,938	3,78,772	13	48,177	6,27,969	13
	{ Bajri ...	40,024	13,08,126	32	28,972	5,01,350	17	20,183	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	...	113,957	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 Márah.		
		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	33	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.

CENTRAL HYDERABAD CANALS DISTRICT—concluded.										
Description of Crops.	Sarfraz.			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	17,008	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
	{ Bájri ...	83,244	11,90,499	14	4,894	58,728	12
	{ Cotton ...	17,524	4,65,234	27	72	1,728	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	234,108	40,84,909	17
	Jowári ...	184	2,335	13	2,431	32,671	13
	Bájrí ...	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
	{ Bájrí ...	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



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**S T A T E M E N T   I V — E .**

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## 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 ...		281,493
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 ...		685,643
Larkána 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 ... ..		37,069
				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 ... ..		39,330
				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	
8	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 :
65,000	29,490	30,957	60,447	33,193	24,634	57,827	4 11	1 45	Kharif. Rabi. Total.
30,000	23,905	9,699	33,604	22,176	3,788	25,964	4 11	1 45	Acres. Acres. Acres.
95,000	53,395	40,656	94,051	55,369	28,422	83,791			Desert Canal... 2,989 3,918 6,907
130,000	85,447	45,228	130,675	90,827	32,837	123,664	3 68	2 61	Begari Canal... 1,914 787 2,701
70,000	56,869	28,404	85,273	53,143	31,386	84,529	3 03	2 35	
200,000	127,891	102,981	230,872	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	12,966	2 45	3 15	
50	154	...	154	35	...	35	...	...	
460,822	296,426	204,617	501,043	285,653	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	
124,379	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	379	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	3,119	363	775	1,138	3 46	2 40	
23,000	440	14,523	14,963	296	5,176	5,472	...	...	
518,023	261,663	199,615	461,278	210,529	167,432	368,011			
150	41	...	41	149	...	149	3 10	2 22	
10	...	12	12	...	9	9	...	...	
72,364	42,115	32,556	74,671	40,654	32,638	73,292	3 06	1 34	
349,396	214,894	135,691	350,585	195,831	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	1,319	2,223			
5,195	3,590	2,337	5,927	2,913	2,091	5,004	3 40	4 30	
4,340	3,543	1,949	5,492	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	2,943	13,180	16,123	3,099	8,302	11,401			
2,753	4,897	10,133	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	15,216	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	15,548	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 93	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	2,453	1,020	3,473	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 Parkar 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 ... ..	38,300
				63	Great Máراك ... ..	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	999,634	66	Jámráo Canal ... ..	136,000
				67	Mehrabwáh ... ..	63,000
				68	Nasrat Canal ... ..	319,000
				69	Naulákhi ... ..	179,000
				70	Dámbo ... ..	44,000
				71	Dad Canal ... ..	336,000
				72	Renwah ... ..	90,500
				73	Alibhar Kacheri ... ..	51,900
				74	Great Máراك ... ..	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 ... ..	1,437,500
				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 6.	AREA IRRIGATED IN ACRES.						RAINFALL.		Remarks.
	1903-1909.			1909-1910.			1903-1909.	1909-1910.	
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.			
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	14,850	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	983	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	72,391	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	12,553	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	834,594	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 Rohri 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 Bhorthi 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
Jowari	...	...	...	448,842	671,606	458,882
Bajri	...	...	...	542,701	618,373	565,766
Cotton	...	...	...	198,027	258,600	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 'bajri,' and the Jamrao Canal for that in cotton.

A. D. YOUNGUSBAND,  
Commissioner in Sind.



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STATEMENT.

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## Statement showing cultivated Area and Assessment of Government, Jāghīr 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.	Ar
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.	Assess
1907-1908 ...	30,81,702	9,78,564	40,63,266	27,02,605	3,75,801	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

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	.....	.....	.....

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

		JAGHIR 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.

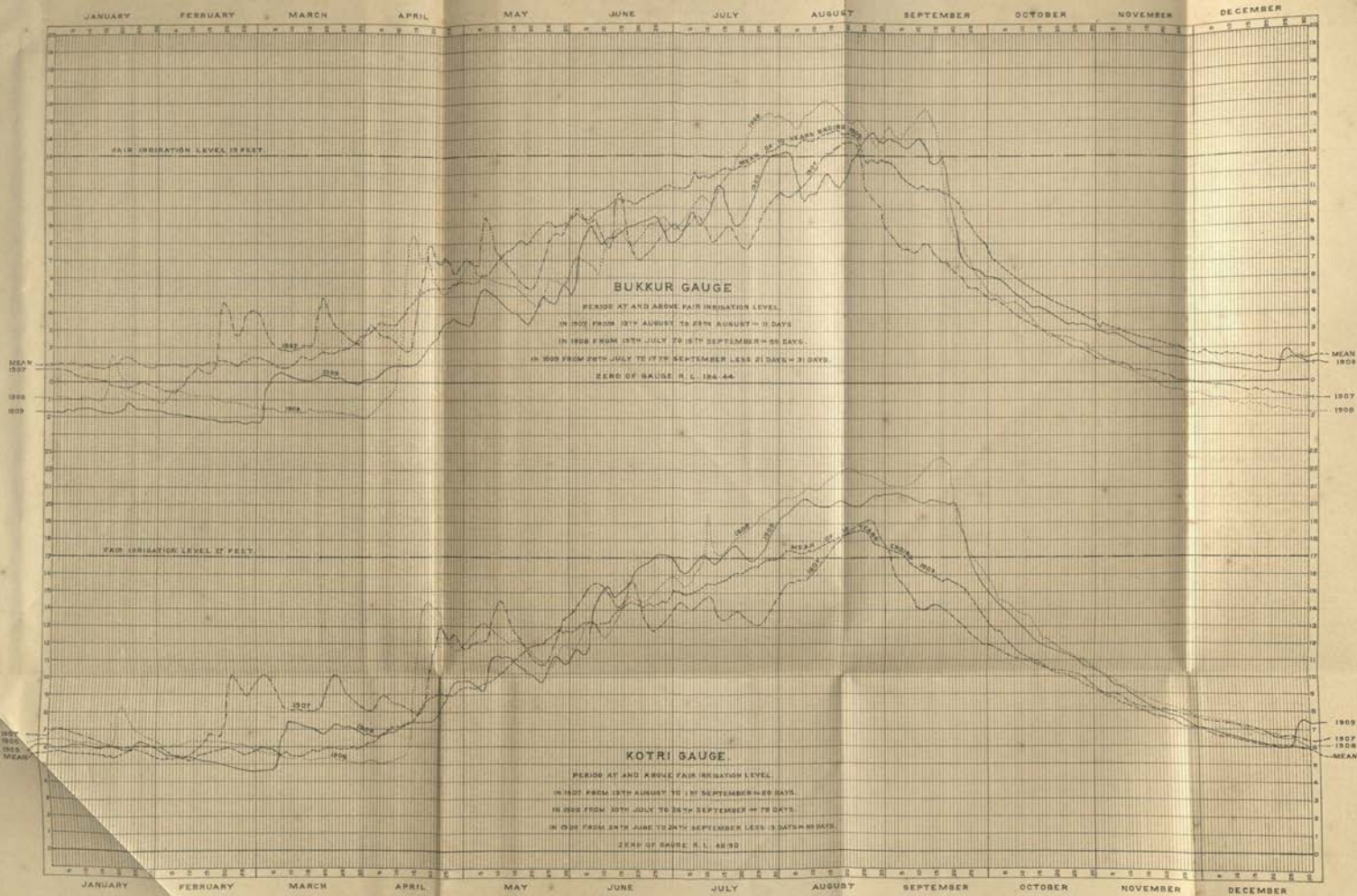
2. The total area irrigated for the year under review and for the previous five years is as follows :—

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



*Thos. Summers*  
CHIEF ENGINEER,  
INDUS RIVER COMMISSION.







26

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25

24

24

23

23

## REFERENCES

- Canals .....  
 " projected .....  
 Railway lines .....  
 Bunds .....  
 " new .....  
 " projected .....  
 Principal towns .....  
 Places where rain gauges are located .....  
 Roads .....  
 District boundaries .....  
 Drainage channels (proposed) .....  
 Regulators (existing) .....  
 Chowkies .....

## INDEX MAP

OF THE

## INDUS LEFT &amp; RIGHT BANK DIVISIONS

to accompany the Irrigation Revenue Report Sind for

1909-10

Scale 16 Miles to an Inch



Note: Roads rated as far as possible in straight lines

67

68

69

70

71

*W. J. C. E.*  
 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  $5\frac{1}{2}$  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.

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No.                      of 1911.

Copy forwarded for information and guidance to

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TRIENNIAL IRRIGATION REVENUE REPORT

OF

SIND

FOR THE

TRIENNium ENDING 1910-1911.

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# CONTENTS.

	PAGES
General Remarks ... ..	i—v
Consolidated Statement for Major Works—Productive ... ..	1—3
Consolidated Statement for Minor Works and Navigation—Works for which Capital and Revenue Accounts are kept ... ..	5—7
Consolidated Statement for Minor Works and Navigation—Works for which only Revenue Accounts are kept ... ..	9—11
Consolidated Statement for Minor Works and Navigation—Works for which neither Capital nor Revenue Accounts are kept ... ..	13—15
Consolidated Statement for all classes of Irrigation Works ... ..	17
Detailed Statements of—	
(1) Desert Canal ... ..	20 & 21
(2) Unharwáh ... ..	22 & 23
(3) Begári Canal ... ..	24 & 25
(4) Mahiwáh ... ..	26 & 27
(5) Eastern Nára Works ... ..	28 & 29
(6) Jámráo Canal ... ..	30 & 31
(7) Dád Canal ... ..	32 & 33
(8) Nasrat Canal ... ..	34 & 35
(9) Sukkur Canal ... ..	38 & 39
(10) Ghár Canal ... ..	40 & 41
(11) Suttah Canal ... ..	42 & 43
(12) Alibhar Kacheri Canal ... ..	44 & 45
(13) Marak Great Canal ... ..	46 & 47
(14) Surfrazwáh ... ..	48 & 49
(15) Fuleli Canal ... ..	50 & 51
(16) Hasanali Canal ... ..	52 & 53
Detailed Statements of Minor Works and Navigation—Works for which only Revenue Accounts are kept in the—	
(1) Shikárpur Canals District ... ..	56 & 57
(2) Western Nára Canals District... ..	58 & 59
(3) Karáchi Canals District ... ..	60 & 61
(4) Northern Hyderabad Canals District ... ..	62 & 63
(5) Central Hyderabad Canals District ... ..	64 & 65
(6) Fuleli Canals District ... ..	66 & 67
Detailed Statements of Minor Works and Navigation—Works for which neither Capital nor Revenue Accounts are kept—	
(1) Indus Right Bank Division ... ..	70 & 71
(2) Indus River Commission District ... ..	72 & 73
(3) Survey and Construction District ... ..	74 & 75
(4) Indus Left Bank Division ... ..	76 & 77
Index Map of Sind ... ..	...
Diagrams and Statements ... ..	79—84
Government Resolution ... ..	1—2
Supplement to the Triennial Report, Sind ... ..	(1)—(2)



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

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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 ...	3,702,766	28,73,131	6,25,549	4,87,277	10,92,825	37,85,956	80,89,036	42,73,080	
1909-10 ...	3,304,092	24,96,276	10,14,158	5,32,242	15,46,400	40,42,678	78,29,617	37,88,341	
1910-11 ...	3,554,918	30,34,506	8,03,662	4,18,372	12,25,034	42,59,540	82,84,135	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) 80,59,729	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	4,85,790	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	20,38,473	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.
1893-1900 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.





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CONSOLIDATED STATEMENT.

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MAJOR WORKS—PRODUCTIVE WORKS.

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(SIND.)

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## SIND TRIENNIAL REPORT,

## CONSOLIDATED STATEMENT

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
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.		Rs.	Rs.	Rs.
	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 2,62,25,963	+4,065 } 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
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
	16 Incidence of Assessed Revenue per acre ... ..	2.28	2.39	2.47
Working Expenses.	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 1907-1909.	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 —vide 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 1,243 19,32,766 2,08,916 17,23,850	31,33,643 2,687 20,38,478 2,08,916 18,29,562	22,72,557 3,620 13,79,797 71,436 13,08,361	17,55,347 1,712 12,94,805 27,954 12,66,851	§Including expenditure on the Naulakhi Canal for which no detailed statement has been prepared. This work is incomplete.
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	



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**CONSOLIDATED STATEMENT.**

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

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**(SIND.)**

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**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
Capital Account.		Rs.	Rs.	Rs.
	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
Revenue.	6 Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year ... ..	25.40	22.53	25.03
	7 Gross Revenue (Direct and Indirect) ... ..	21,74,069	21,53,178	23,92,234
	8 Refunds ... ..	...	.....	.....
Working Expenses.	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
Revenue.	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
Working Expenses.	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  1,011,493  Rs.  6,461 48,22,533  24.31  22,39,827 ..... 15,53,202 3,80,944 11,72,258  10,16,423 22,20,414  6,166 1,04,840  2.20 2.21  6,86,625  0.68	Acres. 753,014 258,619  1,011,633  Rs.  99,220 48,03,148  23.96  21,22,820 71 15,31,722 3,80,944 11,50,778  9,86,431 21,23,232  9,396 1,09,806  2.09 2.09  5,91,027  0.58	Acres. 690,437 262,576  953,013  Rs.  2,06,341 45,54,478  20.72  18,78,093 976 13,16,237 3,72,379 9,43,858  7,83,287 18,96,652  16,375 1,45,428  1.99 1.97  5,60,880  0.59	Acres. 697,267 244,730  941,997  Rs.  27,875 40,07,496  22.06  18,70,801 2,052 12,75,591 3,91,252 8,84,339  7,31,990 18,91,141  2,677 1,01,868  2.01 1.98  5,93,158  0.63	The figures in columns 6 to 9 represent Capital Ex- penditure to end of triennial period.





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**CONSOLIDATED STATEMENT.**

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

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**(SIND.)**

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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>				<i>Acres.</i>	<i>Acres.</i>	<i>Acres</i>
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>				<i>Rs.</i>	<i>Rs.</i>	<i>Rs.</i>
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	



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**CONSOLIDATED STATEMENT.**

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

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**(SIND.)**

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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>				<i>Acres.</i>	<i>Acres.</i>	<i>Acres.</i>
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>				<i>Rs</i>	<i>Rs.</i>	<i>Rs.</i>
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	41,583	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 TRIENNIAL.			
	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.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Works for which Capital and Revenue Accounts are kept.</i>							
Capital Expenditure during the year ... ..	2,85,326	2,13,525 <sup>*2</sup>	1,50,633 <sup>†</sup> +4,065	2,17,849	2,85,523	12,07,468	21,32,532
Do. do. to end of year ... ..	3,08,84,921	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
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ... ..	2,478,443	2,218,363	2,292,460	2,329,756	2,429,070	2,217,896	1,916,099
<i>Works for which only Revenue Accounts are kept.</i>							
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
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ... ..	1,178,250	1,051,717	1,177,233	1,135,733	1,070,725	948,851	1,134,336
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>							
Gross Revenue ... ..	97,275	82,492	75,794	85,187	1,01,128	56,154	69,663
Working expenses ... ..	10,92,825	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
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ... ..	46,073	34,012	35,225	38,437	41,583	24,771	25,627
<i>Total.</i>							
Gross Revenue ‡ ... ..	80,39,036	78,29,017	82,84,135	80,50,729	78,83,419	62,46,865	60,31,682
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	36,10,874
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ... ..	3,702,766	3,304,032	3,504,918	3,503,926	3,541,378	3,191,548	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.



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MAJOR WORKS—PRODUCTIVE WORKS.

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(S I N D.)

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## SIND TRIENNIAL REPORT,

## MAJOR WORKS—

*Name of Work—Desert Canal.*

Particulars.		1908-1909.	1909-1910.	1910-1911.
1	2	3	4	5
Area.		Acres.	Acres.	Acres.
	1 Rice ... ..	3,149	12,710	14,946
	2 Jowari ... ..	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 Wheat ... ..	15,352	13,606	17,639
	8 Rabi ... 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
Revenue.	13 Dubari ... ..	5,823	4,183	6,100
	14 Jaghir ... ..	3,198	2,208	2,769
	15 Foreign ... ..	57,933	55,685	52,826
	16 Lift ... ..	8,422	9,802	9,499
	17 Flow ... ..	182,700	171,689	1,76,971
	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 Jaghir land and Miscellaneous Receipts (Direct) ... ..	66,755	1,01,774	91,208
Capital Account.	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
Working Expenses.	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 ... ..	88,786	88,054	88,809
	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
Miscellaneous.	37 Revenue Collection Charges ... ..	19,282	17,167	18,193
	38 Expenditure not included in above heads ...	5,006	2,116	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
	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 ... ..	...	...	...
	46 Rainfall ... ..	3.63	2.61	3.44
	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—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.	
10,268	13,236	6,366	1,393	
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	45,242	
9,241	11,980	16,079	15,405	
177,120	161,200	193,505	129,588	
Rs.	Rs.	Rs.	Rs.	
57,40,389	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	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
27,16,829	27,01,256	26,67,057	22,89,866	
27,16,829	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	
1,42,838	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
Area.		Acres.	Acres.	Acres.
	1 Rice ... ..	4,842	5,593	5,573
	2 Jowari ... ..	24,899	19,966	14,977
	3 Kharif ... { Bajri ... ..	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	16,878
	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
Revenue.		Rs.	Rs.	Rs.
	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
	35 Do. on Maintenance and Repairs ... ..	15,929	22,991	19,801
	36 Do. on Establishment ... ..	3,660	1,687	3,344
	37 Revenue Collection Charges ... ..	11,275	11,647	10,813
Working Expenses.	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 Khariorwah and Hazarowah,

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	6,40,083	} 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	0.45	
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			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
Revenue.	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
Capital Account.	25			
	26			
	27			
	28			
	29			
	30			
	31			
	32			
	33			
	34			
	35			
Working Expenses.	36			
	37			
	38			
	39			
	40			
	41			
	42			
	43			
	44			
	45			
	46			
	47			
Miscellaneous.	48			
	49			
	50			
	51			

*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	17,260	
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	29,140	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	31,783	35,573	44,099	
37,080	35,821	44,569	54,004	
256,434	275,012	238,814	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	3,389	
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	36,588	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—Maliwah.*

Particulars.					1908-1909.	1909-1910.	1910-1911.
1	2				3	4	5
					Acres.	Acres.	Acres.
Area.	1	Kharif...	Rice	...	7,653	9,476	8,912
	2		Jowari	...	36,928	27,417	32,284
	3		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	46,993	48,628
	7	Rabi	Wheat	...	33,110	25,969	25,443
	8		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
Revenue.	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.
	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
Capital Account.	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
	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	3,280
	41	Total Working Expenses			70,420	54,286	64,650
	42	Incidence of Working Expenses per acre			0.71	0.64	0.74
Miscellaneous.					Cusecs.	Cusecs.	Cusecs.
	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	22,233	6,901	6,347	
155	113	20	20	
4,633	3,904	706	123	
7,394	2,606	798	45	
40,356	23,846	8,425	6,540	(b) Figures not available.
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	(b) Figures not available.
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).....	
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	} The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
10,655	10,642	2,32,848	4,35,880	
14,10,707	13,78,741	13,46,816	6,48,272	
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	} The figures in columns 6 to 9 represent lengths to end of triennial period.
63,119	71,788	31,386	10,511	
0.70	1.00	1.10	1.00	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	.....	
.....	.....	.....	.....	
1,812	1,366	.....	.....	
52	55	43.77	.....	
Inches.	Inches.	Inches.	Inches.	
3.13	2.78	2.84	1.72	
Miles.	Miles.	Miles.	Miles.	} The figures in columns 6 to 9 represent lengths to end of triennial period.
29	29	29	29.37	
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
Area.	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
	7	Total, Kharif ...	169,926	179,195
	8	...	...	...
	9	...	...	...
	10	...	...	...
	11	...	...	...
	12	...	...	...
	13	...	...	...
	14	...	...	...
	15	...	...	...
	16	...	...	...
	17	...	...	...
Revenue.	18	Rs.	Rs.	Rs.
	19	67,94,864	53,33,425	56,23,412
	20	5,93,020	5,66,743	6,30,108
	21	...	...	...
	22	...	...	...
	23	...	...	...
	24	...	...	...
	25	...	...	...
	26	...	...	...
	27	...	...	...
	28	...	...	...
	29	...	...	...
	30	...	...	...
	31	...	...	...
	32	...	...	...
	33	...	...	...
	34	...	...	...
Capital Account.	35	...	...	...
	36	...	...	...
	37	...	...	...
	38	...	...	...
	39	...	...	...
	40	...	...	...
	41	...	...	...
	42	...	...	...
	43	...	...	...
	44	...	...	...
	45	...	...	...
	46	...	...	...
	47	...	...	...
	48	...	...	...
	49	...	...	...
	50	...	...	...
	51	...	...	...
Working Expenses.	52	...	...	...
	53	...	...	...
	54	...	...	...
	55	...	...	...
	56	...	...	...
	57	...	...	...
	58	...	...	...
	59	...	...	...
	60	...	...	...
	61	...	...	...
	62	...	...	...
	63	...	...	...
	64	...	...	...
	65	...	...	...
	66	...	...	...
	67	...	...	...
Miscellaneous.	68	...	...	...
	69	...	...	...
	70	...	...	...
	71	...	...	...
	72	...	...	...
	73	...	...	...
	74	...	...	...
	75	...	...	...
	76	...	...	...
	77	...	...	...
	78	...	...	...
	79	...	...	...
	80	...	...	...
	81	...	...	...
	82	...	...	...
	83	...	...	...
	84	...	...	...

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	3,565	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	29,566	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	
248	216	205	207	
30,424	35,141	1,09,663	-955	
67,99,624	67,08,353	66,02,930	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	
564	751	652	727	
2,20,340	2,32,245	2,49,115	2,41,061	
24,354	12,869	2,215	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	
094	053	048	049	
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	4860	4869	
48	62	40	5169	
97	95	115	.....	
46	88	.....	.....	
32	41	3867	5175	
.....	.....	.....	4024	
26	60	.....	.....	
.....	.....	.....	.....	
Inches.	Inches.	Inches.	Inches.	
1179	416	600	246	
Miles.	Miles.	Miles.	Miles.	
486	486	486	467	
120½	120½	132	110	
.....	.....	.....	.....	

\* Kharif and Rabi not shown  
separately.The figures in columns 6 to 9  
represent lengths to end of  
triennial period.Khipra 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			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
Revenue.	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
Capital Account.	25			
	26			
	27			
	28			
	29			
	30			
	31			
	32			
	33			
	34			
	35			
	36			
Working Expenses.	37			
	38			
	39			
	40			
	41			
	42			
	43			
	44			
	45			
	46			
	47			
	48			
Miscellaneous.	49			
	50			
	51			
	52			
	53			
	54			
	55			
	56			
	57			
	58			
	59			
	60			

*General Remarks.*—The Jámráo 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	107,398	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	
2,873	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	2,62,948	
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	35,118	-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	} The figures in columns 6 to 9 represent Capital Expenditure to end of triennial period.
82,97,638	81,07,361	82,59,134	80,02,965	
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	} The figures in column 9 relate to 1901-1902 only.
1,506	1,882	2,639	2,522	
.....	.....	.....	.....	
67	65	60.73	55.37	
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 Bājri ... ..	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. ....	.....	.....	.....
Capital Account.	29 Unrealized balance to end of year ... ..	26,106	19,179	11,847
	30 Incidence of Assessed Revenue per acre ...	2-3½	2-36	2-36
	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 ... ..	29,68,280	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
Working Expenses.	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
		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 ... ..	.....	.....	.....
Miscellaneous.		Inches.	Inches.	Inches.
	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)	(a) The Canal came into operation in 1901-02.	
9,501	5,793	1,826	927		
23,554	26,274	18,242	11,191		
36,652	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		
58,004	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		
285	212	191	193		
}	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	22,69,473	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	
550	177	083	280		
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		
088	128	179	091		
Cusecs.	Cusecs.	Cusecs.	Cusecs.		
.....	.....	.....	2,152		
.....	.....	.....	.....		
3,707	2,955	.....	.....		
31	3066	3493	2062		
Inches.	Inches.	Inches.	Inches.		
697	465	514	348		
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
Area.					Acres.	Acres.	Acres.
	1	Kharif ...	Rice ...	...	135	427	444
	2		Jowari ...	...	40,780	28,938	27,977
	3		Bajri ...	...	22,289	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	Rabi ...	Wheat ...	...	4,730	2,174	4,059
	8		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	568
	15	Foreign ...	...	...	.....	.....	.....
	16	Lift ...	...	...	20,787	24,781	22,915
	17	Flow ...	...	...	103,324	62,601	69,522
					Rs.	Rs.	Rs.
	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
	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
Capital Account.	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
	31	Capital Expenditure during the year ...			10,500	—5,976	28,443
	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
Working Expenses.	36	Expenditure on Extensions and Improvements. ...			976	1,032	521
	37	Do. on Maintenance and Repairs ...			41,209	51,318	1,53,621
	38	Do. on Establishment ...			11,088	14,515	29,671
	39	Revenue Collection Charges ...			18,777	16,339	16,334
	40	Expenditure not included in above heads ...			2,136	2,883	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
					Cusecs.	Cusecs.	Cusecs.
	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
Miscellaneous.	47	Do. Rabi ...			.....	.....	.....
					Inches.	Inches.	Inches.
	48	Rainfall ...			1.72	4.80	6.71
					Miles.	Miles.	Miles.
	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	.....	
15,938	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	.....	
.....	.....	.....	.....	
22,828	21,823	11,860	.....	
78,482	94,459	33,686	.....	
Rs.	Rs.	Rs.	Rs.	
23,06,502	20,65,118	7,10,138	.....	
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	94,178	22,850	.....	
45,001	31,870	-25,598	-8,245	
2,82,013	2,20,565	86,117	.....	
64	154	236	.....	
20,946	11,363	8,144	.....	
2,78	1,90	1,89	.....	
10,989	61,636	3,17,002	2,39,764	The figures in columns 6 to 9 represent capital expenditure to end of triennial period.
18,88,371	18,55,404	16,70,495	7,19,489	
19,39,506	19,17,602	17,80,331	7,25,711	
5,62	5,08	1,36	.....	
61,090	62,308	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	.....	
1,20	0,66	0,85	.....	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	.....	
.....	.....	.....	.....	
1,725	1,680	.....	.....	
56	69	55	.....	
Inches.	Inches.	Inches.	Inches.	
4,41	4,97	2,44	.....	
Miles.	Miles.	Miles.	Miles.	
95	92	94	.....	The figures in columns 6 to 8 represent lengths to end of triennial period.
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.



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MINOR WORKS AND NAVIGATION.

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WORKS FOR WHICH CAPITAL AND REVENUE  
ACCOUNTS ARE KEPT.

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(SIND.)

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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			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
Revenue.		Rs.	Rs.	Rs.
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
Capital Account.	31			
	32			
	33			
	34			
	35			
	36			
Working Expenses.	37			
	38			
	39			
	40			
	41			
	42			
Miscellaneous.		Cusecs.	Cusecs.	Cusecs.
	43			
	44			
	45			
	46			
	47			
		Inches.	Inches.	Inches.
	48			
		Miles.	Miles.	Miles.
	49			
	50			
	51			

*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	
1,33,673	97,187	65,059	1,02,831	
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	
212	203	197	206	
.....	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	
937	681	456	730	
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	
059	074	075	050	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
2,319	2,314	2,104	2,333	
413	566	443	281	
.....	.....	.....	.....	
32	32	3246	2856	
149	112	10025	15930	
Inches.	Inches.	Inches.	Inches.	
333	437	340	167	
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	
Area.	1	Kharif ...	Rice ...	...	Acres.	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 ...			226,243	206,795	223,903	
	7	Rabi ...	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	6,343	8,838	
	17	Flow ...	...	...	362,054	334,499	356,585	
	18	Estimated value of crops ...			Rs. 73,09,412	Rs. 68,27,602	Rs. 91,29,630	
	19	Irrigation share of Land Revenue (Indirect) ...			8,28,417	7,40,719	9,28,770	
	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 ...			.....	.....	.....	
Capital Account.	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	
	31	Capital Expenditure during the year ...			.....	.....	.....	
	32	Do. to end of year ...			5,72,386	5,72,386	5,72,386	
Working Expenses.	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	
	36	Expenditure on Extensions and Improvements. ...			2,533	3,140	4,175	
	37	Do. on Maintenance and Repairs ...			74,797	1,20,795	1,84,428	
	38	Do. on Establishment ...			29,167	33,798	51,886	
	39	Revenue Collection Charges ...			55,162	50,032	61,193	
	40	Expenditure not included in above heads ...			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	
Miscellaneous.	43	Average discharge, Kharif ...			Cusecs. ....	Cusecs. ....	Cusecs. ....	
	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 ...			Inches. 2.16	Inches. 2.77	Inches. 3.02	
	49	Length of Main Canal ...			Miles. 67	Miles. 67	Miles. 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	7,75,654	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	30,356	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.	
.....	.....	.....	5,355	
.....	.....	.....	.....	
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.

B 1807—11

**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
Arca.	1	Acres.	Acres.	Acres.
	2	9,056	11,394	13,158
	3	35	21	2
	4	5,296	3,839	2,565
	5	813	217	291
	6	15,200	15,471	16,016
	7	17	6	415
	8	1,341	675	38
	9	741	153	434
	10	414	469	887
	11	2,513	1,293	16,903
	12	17,713	16,764	
Revenue.	13	Rs.	Rs.	Rs.
	14	643	362	398
	15	129	149	161
	16	4,780	3,901	2,674
	17	12,983	12,863	14,229
	18	1,03,265	1,52,922	89,934
	19	23,880	36,384	27,284
	20	38	861	171
	21	23,918	37,245	27,455
	22	4,434	10,373	1,878
Capital Account.	23	6,927	6,927	6,927
	24	11,361	3,446	8,805
	25	17,214	2,391	14,681
	26	24,000	39,240	26,313
	27	3,323	5,318	4,176
	28	1.35	2.34	1.56
	29	1,449	1,858	48
	30	1,78,142	1,80,000	1,80,048
	31	1,95,356	1,90,753	2,05,482
	32	6.38	1.91	4.89
Working Expenses.	33	5,853	5,837	5,876
	34	601	76	1,566
	35	20,707	21,644	19,888
	36	4,844	2,804	5,307
	37	1,568	2,316	1,763
	38	682	32	809
	39	28,352	26,872	29,333
	40	1.60	1.60	1.74
	41	Cusecs.	Cusecs.	Cusecs.
	42	625	646	1,173
Miscellaneous.	43	18	25	10
	44	Inches.	Inches.	Inches.
	45	24.62	8.37	15.90
	46	Miles.	Miles.	Miles.
	47	31	31	32
	48	6	6	6
	49			
	50			
	51			
	52			

*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	603	.....	
... ..	1	.....	.....	
441	513	123	.....	
15,563	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	.. ..	
13,353	11,458	2,462	.....	
Rs.	Rs.	Rs.	Rs.	
1,15,374	1,02,293	14,754	.....	
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	5,989	.....	
.....	294	638	.....	
4,272	2,202	429	.....	
1-74	2-21	1-89	.....	
1,118	8,893	59,005	.....	} The figures in columns 6 to 8 represent capital expenditure to end of triennial period.
1,80,048	1,76,693	1,50,014	.....	
2,05,482	1,85,575	1,50,575	.....	
3-10	4-37	2-91	.....	
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	.....	
1-64	1-14	0-44	.....	
Cusecs.	Cusecs.	Cusecs.	Cusecs.	
.....	.....	.....	.....	
.....	.....	.....	.....	
815	580	.....	.....	
18	24	16	.....	
Inches.	Inches.	Inches.	Inches.	
16-20	6-73	.....	.....	
Miles.	Miles.	Miles.	Miles.	
32	31	.....	.....	} The figures in columns 6 and 7 represent lengths to end of triennial period.
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
Area.		Acres.	Acres.	Acres.
	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
	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
Revenue.		Rs.	Rs.	Rs.
	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	35,066
	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	29,083
	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
	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
Capital Account.				
	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
		Cusecs.	Cusecs.	Cusecs.
	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 ... ..			
Miscellaneous.		Inches.	Inches.	Inches.
	48 Rainfall ... ..	7.65	6.36	8.18
		Miles.	Miles.	Miles.
	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	10,832	11,348	
8,239	8,239	8,239	8,239	
14,684	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	82	
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
		Rs.	Rs.	Rs.
	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
	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
Capital Account.	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) ...	1,61,130	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
	31 Capital Expenditure during the year ...	.....	.....	.....
Working Expenses.	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	39.28
	35 Interest Charges during year ... ..	7,020	6,966	7,005
	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
Miscellaneous.	42 Incidence of Working Expenses per acre ...	0.51	0.59	0.68
		Cusecs.	Cusecs.	Cusecs.
	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 ... ..	.....	.....	.....
		Inches.	Inches.	Inches.
	48 Rainfall ... ..	8.81	6.38	7.80
		Miles.	Miles.	Miles.
Miscellaneous.	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	35,026	32,544	31,810	
20,081	18,590	15,968	12,760	
1,795	1,746	2,006	2,153	
59,482	60,828	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.	
18,28,244	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	
19,887	20,591	21,313	24,788	
6,193	5,892	8,088	10,065	
11,602	11,018	9,348	9,149	
685	682	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 Rice ... ..	273	1,156	1,528
	2 Jowári ... ..	755	465	413
	3 Kharif ... { Bájri ... ..	25,915	22,478	18,077
	4 Cotton ... ..	6,784	7,454	7,804
	5 Other crops ... ..	844	1,112	1,070
	6 Total, Kharif ...	34,521	32,665	28,892
	7 Wheat ... ..	372	383	331
	8 Rabi ... { Barley ... ..	1	1	.....
	9 Oil-seeds... ..	2,157	307	180
	10 Other crops ... ..	882	514	803
	11 Total, Rabi ...	3,412	1,205	1,314
	12 Total, Kharif and Rabi ...	37,933	33,870	30,206
Revenue.	13 Dabári ... ..	565	99	52
	14 Jaghir ... ..	6,637	6,279	4,277
	15 Foreign ... ..	.....	.....	.....
	16 Lift ... ..	32,487	30,517	26,570
	17 Flow ... ..	5,446	3,353	3,636
	18 Estimated value of crops ... ..	Rs. 5,45,267	Rs. 6,69,805	Rs. 6,10,917
	19 Irrigation share of Land Revenue (Indirect)...	61,819	58,640	55,942
	20 Water-rates on Jaghir Land and Miscellaneous Receipts (Direct) ... ..	1,585	3,576	1,061
	21 Gross Revenue (Direct and Indirect) ... ..	63,404	62,216	58,005
	22 Refunds ... ..	.....	.....	.....
Capital Account.	23 Net Revenue ... ..	39,939	40,712	36,863
	24 Do. due to old works ... ..	10,985	10,985	10,985
	25 Do. due to improvements ... ..	28,954	29,727	25,878
	26 Balance of net Revenue due to Improvements after deducting interest charges ... ..	24,942	25,746	21,874
	27 Assessed Revenue (Direct and Indirect) ... ..	65,521	59,312	57,310
	28 Remissions during year on Assessed Revenue... ..	.....	.....	.....
	29 Unrealized Balance to end of year ... ..	8,052	5,148	7,156
	30 Incidence of Assessed Revenue per acre ... ..	1.73	1.75	1.90
	31 Capital Expenditure during the year ... ..	.....	.....	.....
	32 Do. to end of year ... ..	1,24,680	1,24,680	1,24,680
Working Expenses.	33 Total sum at charge ... ..	1,24,680	1,24,680	1,24,680
	34 Percentage of Net Revenue (due to improvements) to Capital Outlay to end of year ... ..	23.22	23.84	20.76
	35 Interest charges during year ... ..	4,012	3,981	4,004
	36 Expenditure on Extensions and Improvements. ... ..	1,980	.....	1,284
	37 Do. on Maintenance and Repairs ... ..	11,770	13,055	10,607
	38 Do. on Establishment ... ..	4,087	3,147	4,536
	39 Revenue Collection charges ... ..	4,444	4,366	4,128
	40 Expenditure not included in above heads ... ..	1,184	936	585
	41 Total, Working Expenses ... ..	23,465	21,504	21,140
	42 Incidence of Working Expenses per acre ... ..	0.62	0.63	0.70
Miscellaneous.	43 Average discharge, Kharif ... ..	Cusecs. ....	Cusecs. ....	Cusecs. ....
	44 Do. Rabi ... ..	.....	.....	.....
	45 Do. Kharif and Rabi (when not separated) ... ..	899	816	1,173
	46 Duty per Cusec, Kharif ... ..	42	42	26
	47 Do. Rabi ... ..	.....	.....	.....
	48 Rainfall ... ..	Inches. 18.03	Inches. 6.79	Inches. 9.41
	49 Length of Main Canal ... ..	Miles. 80	Miles. 80	Miles. 80
	50 Do. of Branch Canals ... ..	31	31	31
	51 Do. of Distributaries ... ..	.....	.....	.....

*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	820	
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	56,630	44,472	41,302	
.....	.....	4	8	
39,171	27,479	24,527	21,884	
10,985	10,985	10,985	10,985	
28,186	16,494	13,543	10,899	
24,187	12,207	8,300	6,157	
60,714	56,777	45,308	41,327	
.....	.....	11	11	
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	
1,088	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	
.....	.....	.....	.....	

Rabi, has not fluctuated much. The cultivation is mostly lift. The inundation of 1908 was a  
B 1807—13

SIND TRIENNIAL REPORT,  
MINOR WORKS AND NAVIGATION—

Name of Work—Fuleli Canal.

Particulars.		1908-1909.	1909-1910.	1910-11.
1	2	3	4	5
Area.		Acres.	Acres.	Acres.
	1 Rice ... ..	183,484	211,227	212,308
	2 Jowari ... ..	2,877	2,178	3,327
	3 Kharif ... { 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 Rabi ... { 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	369,616
	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
Revenue.		Rs.	Rs.	Rs.
	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.		Cusecs.	Cusecs.	Cusecs.
	43 Average discharge, Kharif ... ..	5,626	6,568	6,631
	44 Do. do. Rabi ... ..	737	1,059	818
	45 Do. Kharif and Rabi (when not separated.) ... ..	.....	.....	.....
	46 Duty per Cusec, Kharif ... ..	57	49	48
	47 Do. Rabi ... ..	66	45	53
	48 Rainfall ... ..	Inches. 18'52	Inches. 10'42	Inches. 15'50
	49 Length of Main Canal ... ..	Miles. 98	Miles. 98	Miles. 98
	50 Do. of Branch Canals ... ..	889	889	889
	51 Do. of Distributaries ... ..	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	22,720	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	
5,29,718	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 re- present 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 re- present lengths to end of trien- nial 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 ... ..	207	72	285
	5 Other crops ... ..	361	407	416
	6 Total Kharif ...	16,433	17,440	17,838
	7 Wheat ... ..	.....	36	8
	8 Rabi ... { Barley ... ..	39	16	21
	9 Oil-seeds ... ..	475	214	179
	10 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
	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	.....
Capital Account.	37 Do. on Establishment ... ..	13,308	16,979	14,425
	38 Revenue Collection Charges ... ..	5,117	4,808	4,516
	39 Do. ... ..	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
		Cusecs.	Cusecs.	Cusecs.
	43 Average discharge, Kharif ... ..	.....	.....	.....
	44 Do. do. Rabi ... ..	.....	.....	.....
	45 Do. Kharif and Rabi (when not separated) ...	370	660	515
Working Expenses.	46 Duty per Cusec, Kharif ... ..	43	27	30
	47 Do. Rabi ... ..	.....	.....	.....
		Inches.	Inches.	Inches.
	48 Rainfall ... ..	19.15	5.07	18.02
		Miles.	Miles.	Miles.
	49 Length of Main Canal ... ..	35	35	35
	50 Do. of Branch Canals ... ..	46	46	46
	51 Do. of Distributaries ... ..	19	19	19

*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.



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## MINOR WORKS AND NAVIGATION.

WORKS FOR WHICH ONLY REVENUE  
ACCOUNTS ARE KEPT.

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(S I N D.)

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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	Kharif	Rice ...	45,270	47,094	47,420
	2		Jowári . ...	81,117	44,555	61,767
	3		Bájri ...	4,168	3,888	3,883
	4		Cotton ...	426	350	867
	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 ...	—366	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	
3,980	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	} The figures in columns 6 to 9 represent lengths to end of triennial period.
90	90	87	91	
.....	.....	.....*	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			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
Revenue.	14			
	15			
	16			
	17			
Working Expenses.	18			
	19			
	20			
	21			
	22			
	23			
	24			
Miscellaneous.	25			

*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	} The figures in columns 6 to 9 represent lengths to end of triennial period.
326	316	347	321	

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
Area.	{	Kharif	Rice ...	153,368	166,752	193,072
			Jowári ...	1,194	994	1,315
			Bájri ...	29,761	22,275	13,814
			Cotton ...	11	2	7
			Other crops ...	5,384	5,349	4,029
			Total, Kharif ...	189,718	195,372	212,237
		Rabi	Wheat ...	426	160	182
			Barley ...	24,117	11,326	10,895
			Oil-seeds ...	14,844	7,564	6,162
			Other crops ...	14,839	14,002	18,323
			Total, Rabi ...	54,226	33,052	35,562
			Total, Kharif and Rabi ...	243,944	228,424	247,799
		Jaghir ...	...	7,533	7,796	6,584
Revenue.	{	Estimated value of crops ...	13,02,118	20,59,136	13,30,139	
		Gross Revenue, Direct and In-direct (Actuals) ...	3,32,610	4,63,573	3,41,367	
		Net Revenue (Actuals) ...	78,273	2,16,684	87,076	
		Working Expenses.	{	Expenditure on Extensions and Improvements ...	11,590	28,226
Do. on Maintenance and Repairs ...	1,80,236			1,69,001	1,64,588	
Do. on Establishments ...	43,648			25,869	46,177	
Revenue Collection Charges ...	19,285			27,007	19,706	
Expenditure not included in above heads ...	—422			—3,214	577	
Total, Working Expenses ..	2,54,337			2,46,889	2,54,291	
Incidence of Working Expenses per Acre ...	1.04			1.08	1.03	
Miscellaneous.	{			Length of Main Canals ...	454	454
		Length of Branch Canals ...	477	477	479	
		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	23,857	
—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.	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.	14	Estimated value of crops ...	13,12,101	13,88,720	14,44,919	
	15	Gross Revenue, Direct and In-				
	16	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				
	18	Improvements...	51,684	8,769	10,294	
	19	Do. on Maintenance and				
	20	Repairs ...	42,488	50,715	81,525	
	21	Do. on Establishments .	25,174	15,671	17,730	
	22	Revenue Collection Charges ...	14,402	12,910	14,446	
	23	Expenditure not included in above				
	24	heads ...	597	295	742	
Miscellaneous.	25	Total, Working Expenses ...	1,34,345	88,360	1,24,737	
	26	Incidence of Working Expenses				
	27	per Acre ...	1.39	1.00	1.26	
Miscellaneous.	28		Miles.	Miles.	Miles.	
	29	Length of Main Canals ...	117	117	117	
Miscellaneous.	30	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	The figures in columns 6 to 9 represent lengths to end of triennial period.
149	149	151	191	

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	701
	2	Jowári ...	4,326	4,017
	3	Bájrí ...	105,308	85,078
	4	Cotton ...	34,380	41,423
	5	Other crops ...	4,228	5,022
	6	Total Kharif ...	148,377	136,241
	7	Wheat ...	3,484	6,942
	8	Barley ...	2	4
	9	Oil-seeds ...	9,610	13,252
	10	Other crops ...	4,685	5,879
	11	Total Rabi ...	17,781	26,077
	12	Total, Kharif and Rabi ...	166,158	162,318
	13	Jaghir ...	24,881	22,027
		Rupees.	Rupees.	Rupees.
Revenue.	14	Estimated value of crops ...	31,14,924	41,73,006
	15	Gross Revenue, Direct and Indirect (Actuals) ...	3,30,296	3,52,286
	16	Net Revenue (Actuals) ...	2,38,366	2,62,141
Working Expenses.	17	Expenditure on Extensions and Improvements ...	1,457	3,807
	18	Do. on Maintenance and Repairs ...	56,107	46,867
	19	Do. on Establishments ...	16,090	19,164
	20	Revenue Collection Charges ...	18,810	20,516
	21	Expenditure not included in above heads ...	—534	—209
	22	Total Working Expenses ...	91,930	90,145
	23	Incidence of Working Expenses per acre ...	0.55	0.55
		Miles.	Miles.	Miles.
Miscellaneous.	24	Length of Main Canals ...	148	148
	25	Length of Branch Canals ...	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	23,503	24,359	
Rupees.	Rupees.	Rupees.	Rupees.	
37,17,816	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	} The figures in columns 6 to 9 represent lengths to end of triennial period.
441	441	442	439	

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		
Area.	1	Kharif	{ Rice	...	9,363	10,883	12,216		
	2		{ Jowári	...	133	184	238		
	3		{ Bájri	...	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	
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	28,811	
	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	28,820	
Miscellaneous.	23	Incidence of Working Expenses per Acre			...	2.15	0.91	1.15	
					Miles.	Miles.	Miles.		
	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	The figures in columns 6 to 9 represent lengths to end of triennial period. * Hasanali Canal transferred to "Minor Works and Naviga- tion—Works for which Capital and Revenue Accounts are kept."
76	76	70	70	

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



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## MINOR WORKS AND NAVIGATION.

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WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE  
ACCOUNTS ARE KEPT.

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(SIND.)

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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	Kharif ...	Rice ...	12,089	12,148	10,657
	2		Jowári ...	7,426	3,463	5,146
	3		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	Rabi ...	Wheat ...	12,083	8,236	11,405
	8		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.	
Revenue.	15	Estimated value of crops ...		7,92,220	6,83,250	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	Note.—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 com- piled 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 Wheat ...	.....	.....	.....
	8 Rabi ... { 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	187
	17 Net Revenue (Actuals) ...	—1,74,604	—2,29,743	—1,10,740
Working Expenses.	18 Expenditure on Extensions and Improvements ...	24,791	19,669	4,726
	19 Expenditure on Maintenance and Repairs ...	81,312	1,25,740	78,289
	20 Expenditure on Establishments ...	67,226	80,042	20,698
	21 Revenue Collection Charges ...	.....	1	.....
	22 Expenditure not included in above heads ...	2,455	4,883	7,214
	23 Total, Working Expenses ...	1,75,784	2,30,335	1,10,927
Miscellaneous.		Miles.	Miles.	Miles.
	24 Length of Bunds ...	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.

1908-1909 to 1910-1911.

WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.

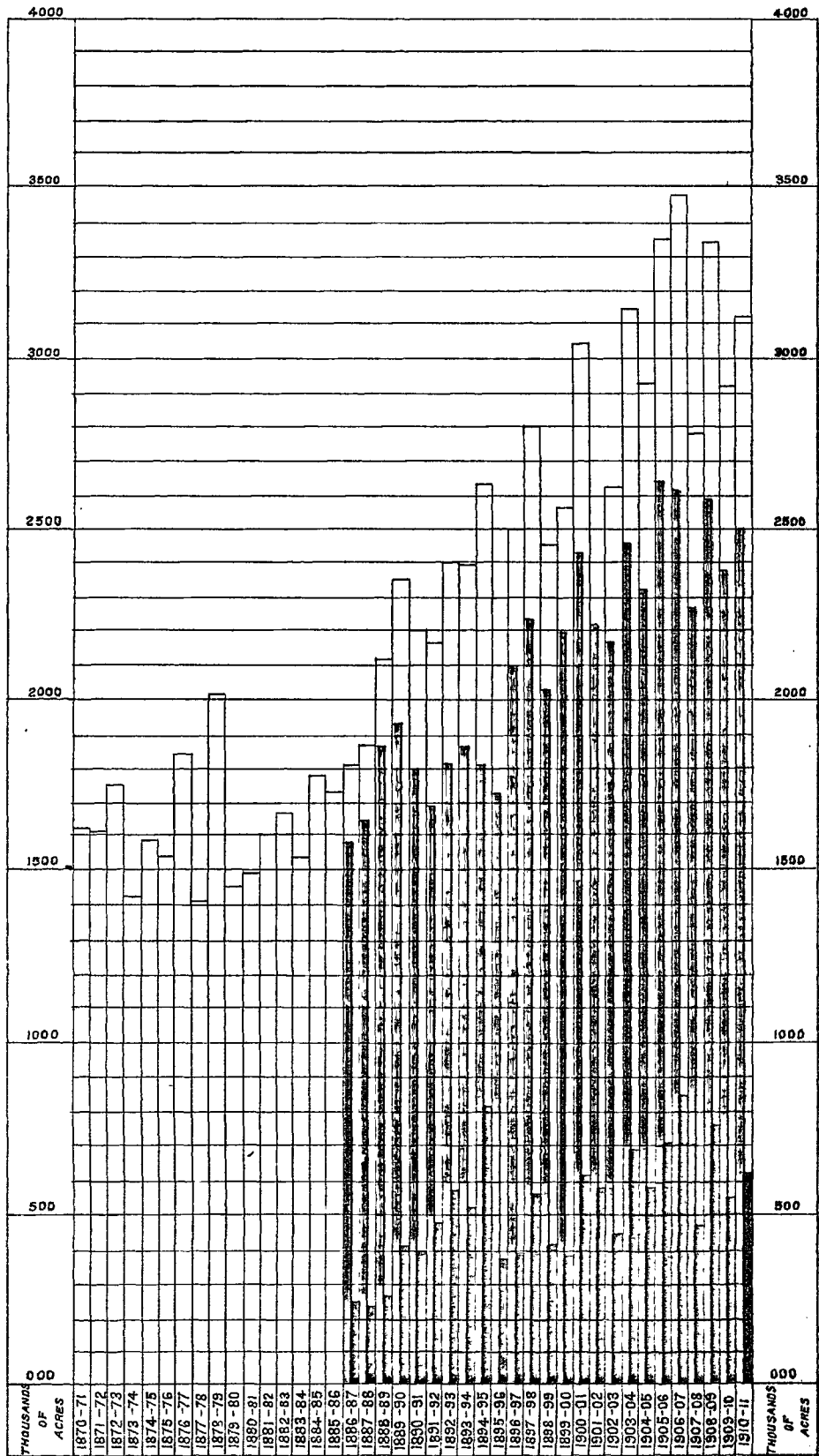
*Indus Left Bank.*

Average for the triennium under report.	1905-1906 to 1907-1908.	1903-1903 to 1904-1905.	1899-1900 to 1901-1902.	Remarks.
6	7	8	9	10
Acres.	Acres.	Acres.	Acres.	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
.....	.....	.....	.....	
Rupees.	Rupees.	Rupees.	Rupees.	
.....	.....	.....	.....	
653	580	138	19	
-1,71,696	-95,574	-44,504	-12,517	
16,395	25,467	9,522	6,287	
95,114	37,924	23,326	3,948	
55,989	29,773	11,514	2,209	
1	.....	.....	.....	
4,850	2,990	280	92	
1,72,349	96,154	44,642	12,536	
Miles.	Miles.	Miles.	Miles.	
63	55	49	48	The figures in columns 6 to 9 represent lengths to end of triennial period.

**Fuleli Canals District.** There are also smaller embankments in the Northern and Central on the detailed survey and preparation of project for the Rohri-Hyderabad Canal, extension



# 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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## REFERENCES

- Canals  
 " projected .....  
 Railway lines .....  
 Bunds  
 " new .....  
 " projected .....  
 Principal towns .....  
 Places where rain gauges are located .....  
 Roads .....  
 District boundaries .....  
 Drainage channels (proposed) .....  
 Regulators (existing) .....  
 Chowkies .....

## INDEX MAP

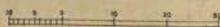
OF THE

## INDUS LEFT &amp; RIGHT BANK DIVISIONS

to accompany the Triennial Irrigation Revenue Report,  
 Sind, for the Triennium ending

1910-11

Scale 16 Miles to an Inch



Note: Roads raised as far as possible in straight lines

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*W. G. G. C.E.*  
 SUPERINTENDING ENGINEER,  
 INDUS LEFT BANK DIVISION



## 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	



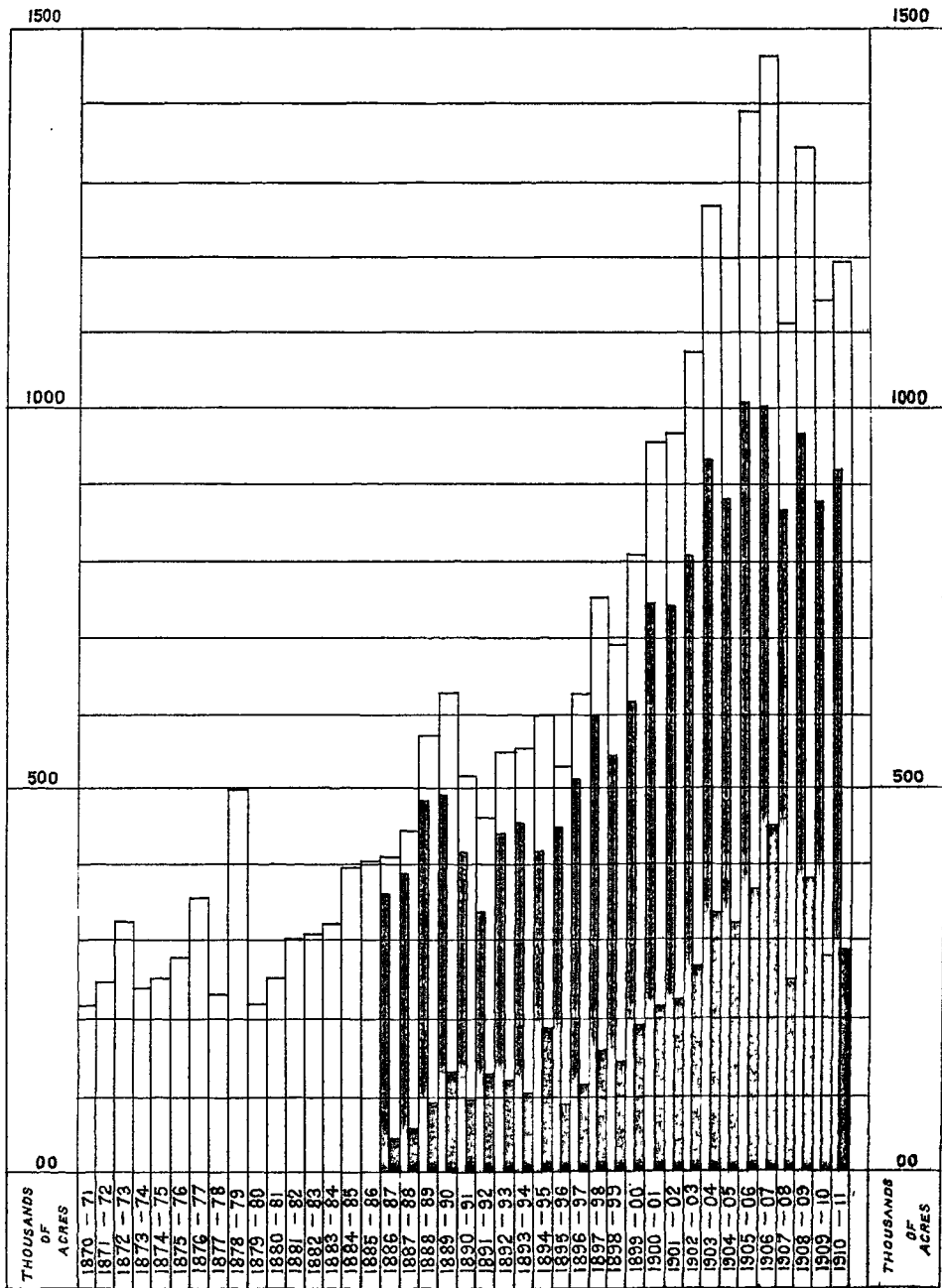
## STATEMENT II.

*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	32,44,067	
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	288,268	1,144,951	
1910-11	912,020	287,106	1,199,126	



## STATEMENT III-A.

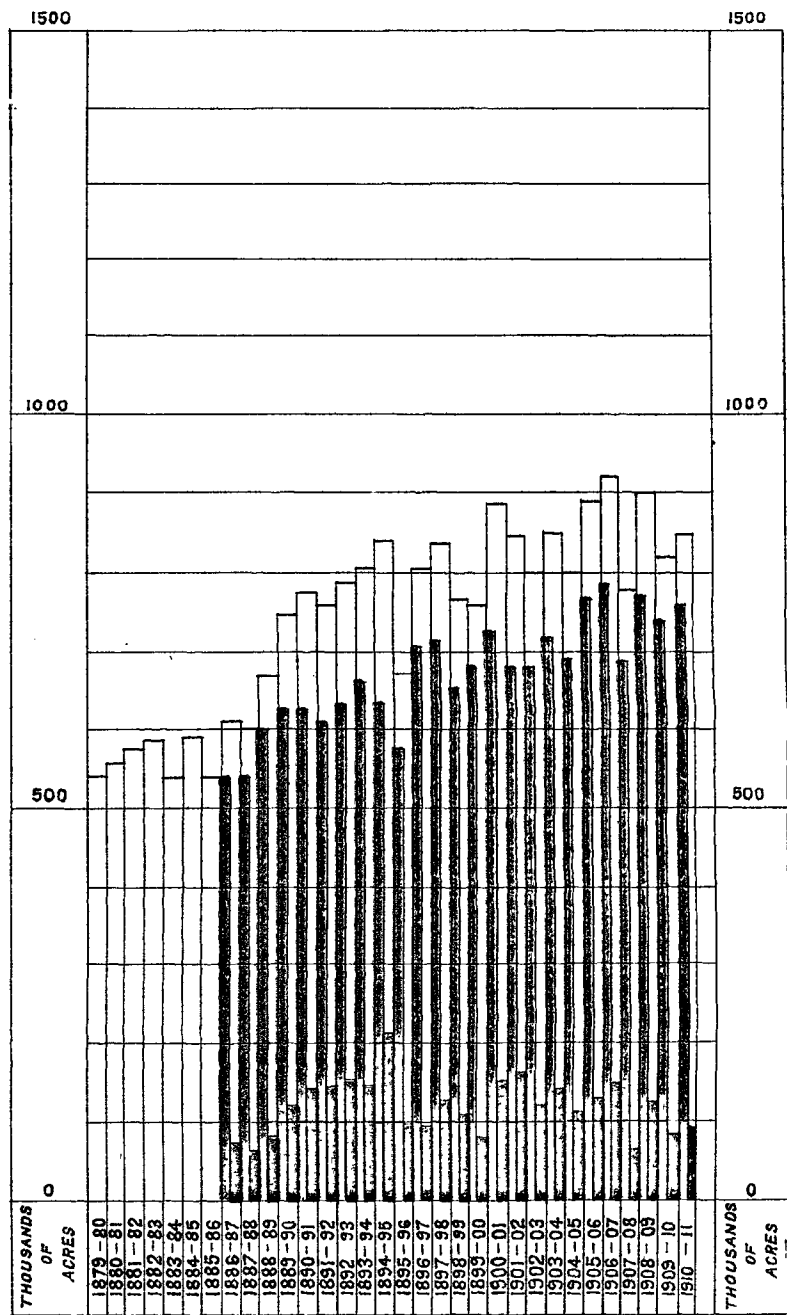
*Statement showing Capital Expenditure, Sum at charge, Gross Revenue, Working Expenses and Net Revenue in case of Major Irrigation Works, Sind.*

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	6,79,583
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	13,46,371	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 1906, 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.

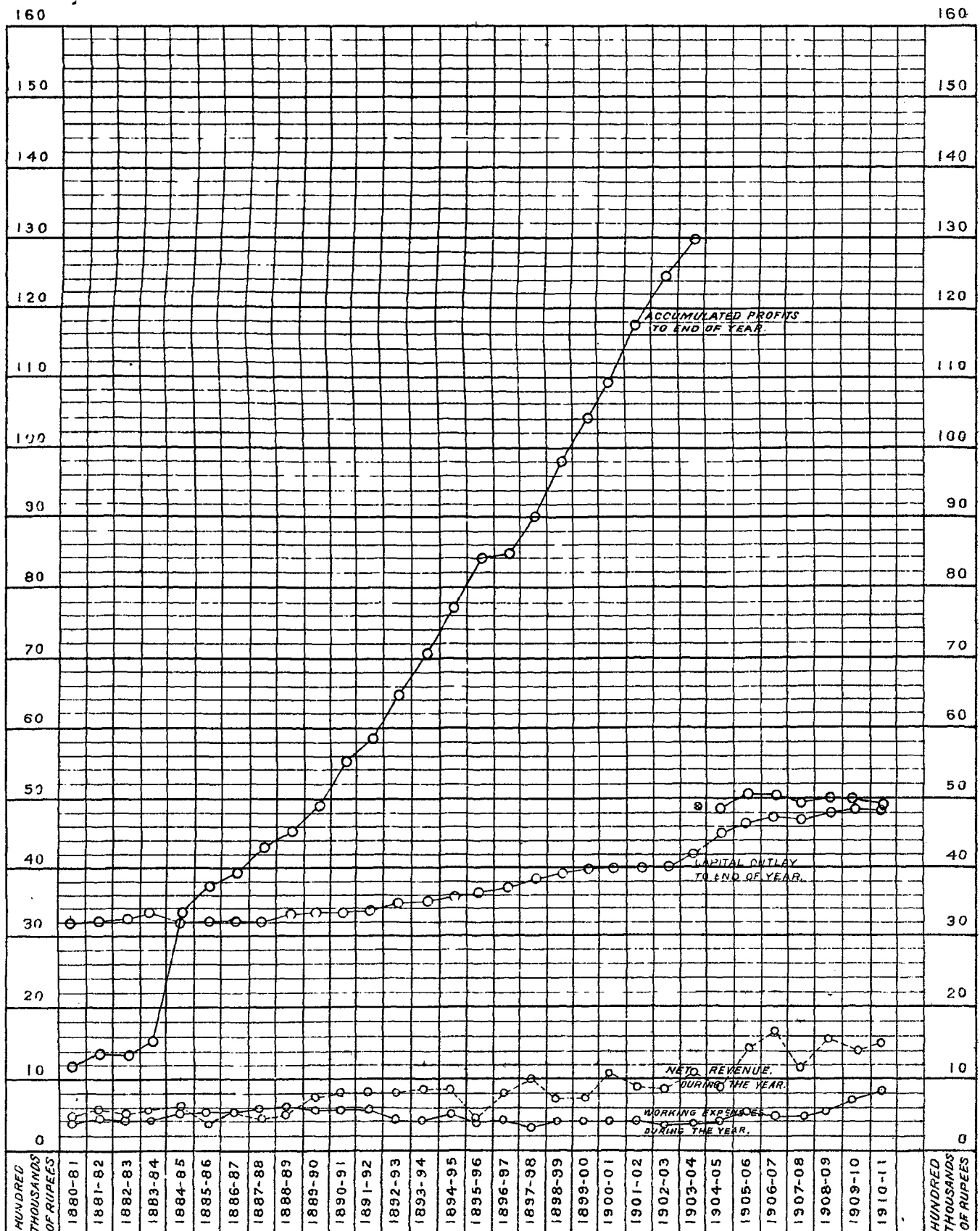
*Statement showing Total Areas irrigated by Irrigation Minor Works in Sind for Works for which Capital and Revenue Accounts are kept, including areas of cultivation of Jāghir lands and lands in Foreign Territory.*

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	...	...	636,560	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 3<sup>RD</sup> AUGT 1905 EMBODIED IN THE PREAMBLE OF G.R. NO A.I.,-2278 DATED 8<sup>TH</sup> 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.

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No. \_\_\_\_\_ of 1912.

Copy forwarded for information and guidance to

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# SUPPLEMENT.

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## 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 Kashmor 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.

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ANNUAL IRRIGATION REVENUE REPORT,

SIND,

1913-1914.

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# INDEX.

	PAGE.
Letter from the Superintending Engineer, Indus Right Bank Division	1
General review of the results for the Indus Right Bank Division	3—20
Letter from the Superintending Engineer, Indus Left Bank Division	21
General review of the results for the Indus Left Bank Division	23—38
Endorsement by the Chief Engineer in Sind	38
Table I. Area of cultivation and consolidated revenue for 1913-1914, Government Land, and comparison with the average of the previous three years showing increase or decrease under Heads—Kharif, Rabi and Irrigation share of Net Consolidated Assessment	39—43
Table II.—Area of cultivation and canal revenue for 1913-1914 and five previous years	44
Table III.—Area of cultivation and canal revenue, Direct and Indirect, for the year 1913-1914	45—46
Table IV.—Area of Jágghir cultivation in Sind and Foreign lands in Khelát, the assessment for 1913-1914, total for collection, actual realizations, and balances outstanding at the end of the year	47—48
Table V.—Revenue expenditure on new works, maintenance and repairs, and revenue collection charges in the Civil Department and establishment charges of the Public Works Department for 1913-1914	49—51
Table VI.—Cultivation, canal revenue and expenditure for 1913-1914, as contrasted with the average of the previous three years	52—53
Table VII.—Statement showing receipts from sale of occupancy rights	54—56
Table VIII.—Abstract of crop return for five years ending 1913-1914 for Government, Jágghir and Foreign lands	57—65
Table IX.—Rainfall in the Province of Sind for 1913-1914	66
Memorandum showing amount of loss to canals on account of difference between assessments of water-rates on Jágghir lands in Sind and foreign lands in Khelat and assessments at the ordinary rates in force for Government lands	67
Statement showing actual receipts for 1913-14 on account of Irrigation share of land revenue from canals in Sind	68
Statement of highest readings on Bukkur and Kotri gauges from 1880 to 1913	69
Memorandum from the Commissioner in Sind	70—75
Hydrograph of the river Indus at Bukkur and Kotri.	
Index map of the Indus Right and Left Bank Divisions.	
Government Resolution reviewing the Report.	



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.		Acres. 336,057 122,881	Acres. 304,389 35,427	Acres. 565,471 134,110	Acres. 17,812 9,633	Acres. 887,672 179,170	Acres. 1,223,729 302,051
Total		458,938	339,816	699,581	27,445	1,066,842	1,525,780
1912-1913		Acres. 333,456 118,777	Acres. 312,533 33,128	Acres. 589,906 123,771	Acres. 19,089 9,421	Acres. 921,528 166,320	Acres. 1,254,984 285,097
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	Acres. 403,236	Acres. 302,479	Acres. 569,807	Acres. 15,449	Acres. 887,795	Acres. 1,290,971
... { Kharif...	160,386	45,933	150,364	10,714	207,011	367,397
... { Rabi ...						
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	35,987
... { 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,  
Foreign and Jagir.

Government,

## 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.	Rs. 7,62,131	Rs. 11,24,135	Rs. 15,91,269	Rs. 40,557	Rs. 27,55,961	Rs. 35,18,092
... { Kharif...	3,25,879	1,93,957	4,42,123	26,399	6,02,479	9,88,358
... { Rabi ...						
Total ...	10,88,010	13,18,092	20,33,392	66,956	34,18,440	45,06,450
1912-1913	Rs. 6,83,960	Rs. 11,15,954	Rs. 16,34,889	Rs. 44,063	Rs. 27,94,306	Rs. 34,78,266
... { Kharif...	2,97,402	1,91,631	3,97,587	26,185	6,15,103	9,12,505
... { Rabi ...						
Total ...	9,81,362	13,06,985	20,32,176	70,248	34,09,409	43,90,771
1913-1914	Rs. 8,97,436	Rs. 11,67,685	Rs. 15,15,173	Rs. 32,727	Rs. 27,15,585	Rs. 36,13,021
... { Kharif...	3,54,930	2,38,012	4,57,400	31,730	7,27,142	10,82,072
... { Rabi ...						
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	52,381	—1,19,716	—11,336	—78,721	1,34,755
... { Rabi ...	57,528	46,381	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. 41,91,287	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 :—

				1913-14.	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

Remissions on Jágghir lands. 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 jágghir 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 jágghirdárs and to zemindárs in Khelat.

Expenditure on maintenance and repairs and Establishment charged to Works. 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
Total				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.

Expenditure on maintenance separately for canals and river embankments. 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.

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

Major Works	...	...	...	Rs.
Works for which Capital and Revenue Accounts are kept	...	...	...	25,317
Works for which only Revenue Accounts are kept	...	...	...	88,654
Agricultural Works	...	...	...	4,973
Total				3,691
Total				1,42,057
Total				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—		
Superintending Engineer.	22,755	
Secretariat and Accounts.	40,713	
	<u>63,468</u>	<u>2.9</u>
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	90,339	3,80,616	...
Minor Works for which Capital and Revenue Accounts are kept.	12,85,436	3,13,527	9,71,909	...	9,71,909	8,98,701	73,208	...
Total ...	24,80,692	9,01,156	15,79,538	2,36,672	13,42,864	9,89,040	3,53,824	...
Minor Works for which only Revenue Accounts are kept.	18,49,513	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 ...	19,16,560	19,75,240	-58,690	...	-58,690	3,50,332	...	-4,09,022
1913-1914 ... ..	43,97,242	28,70,396	15,26,846	2,36,672	12,81,174	13,39,373	-55,199	
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. 1,658,368	Rs. 17,67,734	Rs 1.07	Rs 10,43,525	Rs. 0.63	Rs. 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 Jágíir.

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.				
Kharif.	Rice ...	Acres. 194	Acres. 677,009	Acres. 677,143	Acres. 690,499	Acres. 644,664	Acres. —13,356	Acres. 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	100,518	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 Dhoru, 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 abkalani. 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

Extensions and Improvements. 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 Kashmor, (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 Kashmor 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.

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.

Irrigation.

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.

Financial results.

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 16,643 acres and the estimated value of the outturn was Rs. 40,13,529 or Rs. 24 per acre.

General remarks.

##### B.—Unharwah.

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.

Capital.

A sum of Rs. 749 was spent during the year on (1) additions to cross Regulator at mile 20½ 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.

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.

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.

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.

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.

## 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.

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.

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.

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.

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.

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 jowari, rice, bajri, 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 zamindari 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 Nára 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.

### 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 Falakehandan, (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 Chahatho Nandho in the new loop behind miles 45/7 to 49 of Mulchand Shahbunder Bund and on some other small works.

The expenditure incurred under this head was Rs. 1,78,518 including work establishment against Rs. 1,64,169 of last year.

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.

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.

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.

### 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, Sukkur Begari, 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 Nara Bund, raising and strengthening the Manjhand Bund from 0 to mile 3/0, raising and strengthening Nara 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.



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	...
		„ D. R. H. Browne	7	2
Shikárpur Canals District	... {	„ 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.
<i>Gauges—</i>				Days.	Days.	Days.	Days.
Bukkur	10 feet and over	...	...	90	78	60	60
"	13 " "	...	...	48	21	31	16
Kotri	14 " "	...	...	115	123	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.	37,03,586	38,24,927	37,00,907
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

Area of cultivation—Government  
and Jāghir.

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.
{ Kharif...		526,627	453,847	245,290	.....	699,127	1,225,754
{ 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							
{ Kharif...		557,605	479,903	258,975	.....	738,878	1,296,483
{ 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							
{ Kharif...		568,204	470,640	255,709	.....	726,349	1,294,553
{ 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.							
{ Kharif...		+41,577	+16,793	+10,429	.....	+27,222	+68,799
{ 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.							
{ Kharif...		+10,599	—9,263	—3,266	.....	—12,529	—1,930
{ 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	6,37,032	.....	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	.....	1,313
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	{ Capital	...	...	...	...
Accounts are kept	...	...	{ Revenue	...	28,027
Works for which only Revenue Accounts are kept	...	...	...	...	41,507
Agricultural Works	...	...	...	...	24,799
Total				...	3,08,015

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	...	...	...	...	3,39,331	30.1
<i>Direction.</i>						
Superintending Engineer	...	...	...	35,708		
Secretariat	...	...	...	22,375		
					58,083	5.2
Total				...	3,97,414	35.3

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	19,34,609	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	10,63,051	4,09,396	6,58,655	.....	6,58,655	6,53,523	+5,127	...
Total	30,52,660	13,41,785	17,10,875	6,44,358	10,66,517	10,72,265	+5,127	—10,975
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	19,76,526	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	+887	-17,724
	Jowári ...	88,050	46,216	132,266	113,708	124,030	+10,322	+9,266
	Bajri ...	315,884	76,834	392,718	374,932	435,921	+60,989	+43,203
	Cotton ...	164,641	158,109	322,750	292,337	278,667	-14,670	-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	106,643	120,580	121,178	+535	+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	-11,087	-11,626
	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	-6,448
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 6,448 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.

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.

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 Bhorthi 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 mouth 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
Bajri	...	...	...	...	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 bajri 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. 3,881 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.
Bajri	...	...	...	...	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.
Bajri	...	...	...	...	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 Naula-khi 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.
Báji ...	...	...	...	...	92,281
Cotton...	...	...	...	...	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.

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.)

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TABLE I.

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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.				Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
PRODUCTIVE WORKS.									
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.									
Canals in Operation.									
Begāri Canals District	...	{ Desert Canal	...	79,995	39,557	119,552	1,99,318	1,04,036	3,03,354
		{ Unharwāh	...	45,245	15,187	60,412	1,11,590	42,899	1,54,489
		{ Begāri Canal	...	164,131	73,822	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
Shikārpur Canals District	...	{ Mahiwāh	...	41,569	13,843	55,412	1,16,429	47,268	1,63,697
Jāmrao Canal District	...	{ Jāmrao Canal	...	175,672	54,119	229,791	5,79,156	1,89,193	7,68,349
Nasrat Canals District	...	{ Dād Canal	...	83,342	16,081	99,423	2,22,614	52,299	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 Nāra District	...	{ Nāra Supply Channel	...	844	3,421	4,265	2,345	9,717	12,062
		{ Eastern Nāra	...	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	3,286	55,838	1,82,756	10,332	1,93,088
		{ Khirpa Canal	...	2,555	940	3,495	4,282	1,321	5,603
		{ Heran Canal	...	907	56	963	2,065	241	2,306
		{ Hirai Canal	...	16,856	1,317	18,173	57,238	5,416	62,654
		Total	...	212,048	35,100	247,148	6,53,638	86,510	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.									
Canals in Operation.									
Ghār Canals District	...	{ Sukkur Canal	...	62,165	15,447	77,612	2,32,851	67,412	2,90,263
		{ Ghār Canal	...	210,288	27,059	237,347	9,32,415	1,70,776	11,03,191
		Total	...	272,453	42,506	314,959	11,55,266	2,38,188	13,93,454
Karāchi Canals District	...	{ Suttah Canal	...	14,448	1,612	16,060	29,526	2,426	31,952
Hyderabad Canals District	...	{ Alibhar Kacheri	...	12,470	611	13,081	32,243	1,927	34,170
		{ Mārak	...	57,493	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
		{ Harsanali Canal	...	16,972	170	17,142	53,093	420	53,513
		Total	...	304,957	31,695	336,652	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.									
Canals in Operation.									
Shikārpur Canals District	...	{ Canals in Rohri	...	26,699	12,673	39,372	1,00,241	47,073	1,47,414
		{ Sind Canal	...	50,531	12,699	63,230	1,80,522	49,894	2,40,416
		{ Rajih Canal	...	6,112	3,658	9,770	29,591	16,188	45,779
		{ 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	27,283
		Total	...	90,726	33,111	123,837	3,54,633	1,52,457	5,07,190
Western Nāra District.	...	{ Nāra	...	207,241	37,439	237,780	8,38,663	1,72,041	10,10,709
		{ Manchar	...	3,412	14,129	17,541	10,366	35,283	45,649
		{ Aral	...	3,071	4,088	7,159	7,687	14,901	22,588
		{ Pritichand Canal	...	7,311	1,300	8,611	28,227	5,360	33,587
		{ Wairi	...	960	1,378	2,338	3,153	5,165	8,317
		{ Marvi	...	2,942	1,579	4,521	9,149	5,578	14,726
		{ New Feeder, Western Nāra	...	876	64	940	3,647	224	3,871
		{ Duli Canals	...	7,536	8,890	16,426	21,506	28,061	49,567
		{ Phitta Canals	...	4,333	2,200	6,533	10,946	7,776	18,722
		{ Canals, north of Kotri	...	8,052	3,155	11,207	22,107	7,365	29,472
		Total	...	238,834	74,222	313,056	9,55,564	2,81,759	12,37,323
Karāchi Canals District	...	{ Kalri	...	16,222	4,411	20,633	41,041	9,926	50,967
		{ Jachar	...	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
		{ Pirovari	...	9,188	3,701	12,889	2,07,323	10,893	2,18,216
		{ Indus Canals, Left Bank	...	46,718	4,716	51,434	1,03,218	6,799	1,10,017
		Total	...	212,434	25,542	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 Consoli- dated 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 Con- solidated assessment.	Cultivation.			Irrigation share of Net Consoli- dated 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 6,988 1,823	27,684 5,430 33,381	38,334 12,418 35,204	2,65,020 1,42,071 5,89,965	2,38,518 1,27,864 5,30,969	83,327 49,358 109,735	33,250 20,782 21,376	116,586 70,140 134,111	2,47,020 1,58,058 3,10,527	-3,332 -4,113 54,396	6,298 -5,615 49,446	2,966 -9,728 108,842	-8,503 -30,192 2,20,442
19,461	66,495	85,956	9,97,066	8,97,351	242,420	78,417	320,837	7,15,609	46,951	50,129	97,080	1,81,748
531	1,503	2,034	1,61,663	1,45,407	43,529	20,249	63,778	1,68,379	-1,960	-6,406	-8,366	-22,882
9,746	1,073	10,819	7,57,530	6,81,777	157,474	58,931	216,406	6,43,901	18,198	-4,812	13,398	37,876
2,473 11,294	1,017 6,627	3,490 17,891	2,71,423 2,79,200	2,44,281 2,61,280	84,958 81,510	11,917 7,006	96,873 88,516	2,39,661 2,42,943	-1,614 2,732	4,104 4,663	2,550 7,395	5,620 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
..... 1,085 20,064 18,123 84 ..... 8,063	347 483 348 45 116 ..... 499	347 1,523 21,012 18,137 200 ..... 5,592	11,715 64,358 3,77,542 1,74,951 5,403 2,306 54,062	10,544 57,922 3,39,788 1,57,456 4,863 2,075 48,056	695 21,308 99,601 51,021 2,655 1,585 13,333	4,408 15,863 17,313 4,583 2,655 1,603 4,757	5,303 37,171 118,913 55,604 3,781 1,603 18,090	12,979 58,175 3,40,243 1,72,345 5,274 4,005 53,887	-51 1,971 3,40,243 1,72,345 5,274 4,005 53,887	-987 -1,852 -5,243 -1,297 -100 -678 3,623	-1,038 119 10,211 234 -286 -700 83	-2,435 -253 -455 -14,889 -411 -2,020 -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	600,287	224,647	1,024,934	28,66,485	85,957	34,711	120,693	1,85,005
1,894 11,918	1,405 1,522	3,379 13,740	2,86,884 10,50,451	2,58,196 9,80,507	65,612 207,494	7,436 24,040	73,048 231,934	2,55,769 9,20,488	-3,447 2,394	8,011 3,019	4,564 5,413	22,427 60,019
13,802	8,317	17,119	13,76,335	12,38,703	273,506	31,476	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	24,822	748	1,351	2,099	-3,787
..... 1,155 2,895	300 325 ...	300 1,430 2,895	83,870 1,83,338 64,989	30,483 1,05,004 58,490	17,061 56,814 25,443	1,403 3,886 1,054	12,464 60,680 26,502	29,282 1,59,894 56,198	1,409 669 476	-792 1,852 560	617 3,521 1,036	1,201 5,110 2,292
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 7,364	1,747 ...	2,21,540 7,364	7,79,732 46,149	7,01,759 41,534	274,263 16,617	39,744 237	314,027 16,854	7,57,366 42,323	13,702 355	-8,319 -67	5,383 288	-55,607 -789
2,27,157	1,747	2,28,904	8,25,581	7,43,293	290,900	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 2,878 ..... 25 25	1,107 431 193 40 176	1,648 3,309 196 65 201	1,45,776 3,309 45,483 45,854 27,091	1,31,191 2,13,396 41,395 41,299 24,382	28,794 50,182 5,458 5,073 2,540	13,291 10,847 2,797 3,687 2,400	42,075 61,029 8,255 8,760 4,940	1,32,653 1,35,534 31,907 35,496 18,152	-2,085 349 654 38,496 184	-618 1,852 891 1,757 1,237	-2,703 2,201 1,515 1,773 1,421	-1,462 24,812 9,383 7,773 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 4,721 ..... 2,091 179 189 ..... 40 4,109 6,399	10,350 5,375 1,499 290 ..... 114 ..... 37 ..... 231	99,389 10,066 1,499 2,881 179 303 ..... 77 4,109 6,680	9,11,320 35,578 21,089 31,206 8,138 14,423 3,871 49,530 14,613 22,792	8,20,189 32,020 15,980 28,065 7,324 12,981 3,484 44,622 13,152 20,513	196,564 3,353 2,944 7,574 913 2,884 979 8,176 3,894 3,341	42,492 11,883 5,727 859 880 1,372 107 8,417 1,423 4,264	238,956 15,236 8,671 8,433 1,793 4,256 1,086 16,983 5,317 12,605	8,33,294 35,498 23,843 27,838 5,189 11,559 4,023 42,037 12,394 31,175	3,977 59 127 -263 47 58 -103 -640 439 -289	-5,053 2,216 -1,639 441 498 207 -43 73 777 -1,109	-1,076 2,305 -1,512 178 646 295 -146 -567 1,216 -1,398	-13,105 -3,478 -4,863 247 2,136 1,422 -559 2,585 753 -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 14,639 7,416 65,338 34,679	120 1,025 32 633 301	22,299 15,655 7,448 86,021 34,980	28,568 58,110 48,982 1,82,195 75,037	25,711 52,299 44,084 1,18,975 67,584	16,859 29,427 25,132 84,940 61,031	2,313 2,639 2,104 4,400 2,781	19,201 31,496 27,326 88,600 53,812	30,944 51,619 35,395 1,80,394 66,414	-637 -98 4,547 6,446 -4,813	2,069 3,621 4,407 4,241 1,935	1,432 3,523 4,407 10,637 -2,378	-5,233 790 8,689 -61,419 -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
		Naulakhi ...	...	40,686	5,544	52,230	1,38,237	18,506	1,56,743
		Dambro ...	...	11,151	1,179	12,330	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 ...	{	Ghagro Mahmudo ...	...	63,010	5,649	68,659	1,67,790	14,478	1,82,268
		Kari Shumali ...	...	32,080	1,536	34,216	81,081	4,366	85,460
		Nasir ...	...	29,108	1,006	30,714	73,440	5,045	78,485
		Renwah ...	...	399	379	778	906	1,254	2,220
		Other Canals ...	...	4,300	635	4,935	10,253	2,427	12,685
		Total ...		129,407	9,805	139,302	3,33,523	27,570	3,61,098
Fuleli Canals District ...		Other Canals ...	...	20,856	1,824	22,680	65,533	4,061	69,594
Total, Minor Works, Revenue Accounts only ...				770,110	169,909	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	23,442	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	10,540
		Bunds, north of Kotri ...	...	.....	.....	.....	.....	.....	.....
		Total ...		2,038	659	2,697	8,143	2,401	10,540
Karachi Canals District ...	{	Bunds, Right Bank ...	...	3,952	224	4,176	8,429	784	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	74,881	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	44,94,163
Indus Left Bank Division ...	{	Jamrao Canal District ...	...	175,072	54,119	229,791	5,79,156	1,89,193	7,68,349
		Eastern Nara District ...	...	212,048	35,100	247,148	6,53,633	86,510	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	5,97,206	50,764	6,47,970
		Fuleli Canals District ...	...	325,813	39,411	365,224	10,62,856	71,828	11,34,684
		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.

[illegible]



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
<b>MAJOR WORKS.</b>												
<b>PRODUCTIVE WORKS.</b>												
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>												
<i>Canals in operation.</i>												
Begari Canals District.	Desert Canal ... ..	119,552	42,392	161,944	2,38,518	...	2,38,518	83,029	4,330	3,24,877	1,910	3,26,787
	Unharwah ... ..	60,412	88	60,450	1,27,864	...	1,27,864	302	2,024	1,30,190	2,123	1,32,313
	Begari Canal ... ..	287,953	46,202	284,155	5,30,969	39,613	4,97,356	32,714	3,574	5,33,644	8,533	5,42,177
	<b>Total ...</b>	<b>417,917</b>	<b>88,682</b>	<b>506,549</b>	<b>8,97,351</b>	<b>39,613</b>	<b>8,68,738</b>	<b>1,15,045</b>	<b>9,928</b>	<b>9,88,711</b>	<b>13,571</b>	<b>10,02,082</b>
Shikarpur Canals District ...	Mahiwah ... ..	55,412	1,661	57,073	1,45,470	1,10,497	35,000	734	3,801	39,535	3,035	42,570
Jamrao Canal District ...	Jamrao Canal ... ..	229,701	2,909	232,790	6,81,777	...	6,81,777	1,052	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	1,60,368	2,615	3,397	1,66,390	7,762	1,74,142
	Nasrat Canal ... ..	95,911	503	96,414	2,51,280	72,354	1,78,426	245	1,161	1,79,832	12,943	1,92,775
	<b>Total ...</b>	<b>195,334</b>	<b>7,583</b>	<b>202,922</b>	<b>4,95,561</b>	<b>1,06,267</b>	<b>3,38,794</b>	<b>2,860</b>	<b>4,558</b>	<b>3,46,212</b>	<b>20,705</b>	<b>3,66,917</b>
Eastern Nara District.	Nara Supply Channel ... ..	4,265	5,030	9,295	10,544	...	10,544	8	4,387	14,939	183	15,124
	Eastern Nara ... ..	37,300	...	37,300	57,932	3,444	54,478	...	4,831	59,309	170	60,479
	Mithrao Canal ... ..	127,124	1,084	128,178	3,39,788	...	3,39,788	...	996	3,40,784	320	3,41,104
	Thar Canal ... ..	55,838	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	...	581	49,237	2,226	51,463
	<b>Total ...</b>	<b>247,148</b>	<b>8,572</b>	<b>255,720</b>	<b>6,31,304</b>	<b>3,444</b>	<b>6,17,860</b>	<b>1,939</b>	<b>16,695</b>	<b>6,39,494</b>	<b>3,347</b>	<b>6,39,841</b>
	<b>Total, Major Works ...</b>	<b>1,145,603</b>	<b>109,462</b>	<b>1,255,065</b>	<b>28,41,490</b>	<b>3,04,321</b>	<b>25,37,169</b>	<b>1,22,239</b>	<b>91,186</b>	<b>27,50,585</b>	<b>1,02,143</b>	<b>28,52,728</b>
<b>MINOR WORKS.</b>												
<b>IRRIGATION AND NAVIGATION.</b>												
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>												
<i>Canals in operation.</i>												
Ghar Canals District.	Sukkur Canal ... ..	77,812	2,842	80,454	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	1,36,512	8,44,095	4,539	13,538	8,63,122	7,516	8,70,638
	<b>Total ...</b>	<b>314,959</b>	<b>17,332</b>	<b>332,291</b>	<b>12,38,703</b>	<b>2,20,318</b>	<b>10,18,385</b>	<b>5,064</b>	<b>15,737</b>	<b>10,39,186</b>	<b>8,332</b>	<b>10,47,518</b>
Karachi Canals District.	Sattah Canal ... ..	16,060	61	16,121	21,035	16,145	4,690	22	...	4,912	674	5,586
Hyderabad Canals District.	Alibhar Kacheri ... ..	18,091	1,691	19,782	30,483	17,606	12,878	52	233	18,913	839	19,752
	Marat ... ..	63,201	7,963	71,164	1,05,004	50,437	1,05,567	2,966	882	1,09,405	3,406	1,12,811
	Sarfaraz ... ..	27,538	3,069	30,607	58,400	18,806	39,684	1,835	584	42,108	1,293	43,401
	<b>Total ...</b>	<b>108,820</b>	<b>12,713</b>	<b>121,533</b>	<b>2,53,977</b>	<b>86,746</b>	<b>1,58,229</b>	<b>4,843</b>	<b>1,749</b>	<b>1,64,821</b>	<b>5,538</b>	<b>1,70,359</b>
Fuleli Canals District.	Fuleli Canal ... ..	319,410	62,775	382,185	7,01,759	2,44,549	4,57,210	31,654	10,855	4,90,719	13,127	5,03,846
	Hasanali Canal ... ..	17,142	637	17,779	41,534	5,916	35,618	336	431	36,385	411	36,796
	<b>Total ...</b>	<b>336,552</b>	<b>63,412</b>	<b>399,964</b>	<b>7,43,293</b>	<b>2,50,465</b>	<b>4,92,828</b>	<b>31,990</b>	<b>11,286</b>	<b>5,26,104</b>	<b>13,538</b>	<b>5,40,642</b>
	<b>Total, Minor Works Capital and Revenue Accounts ...</b>	<b>771,391</b>	<b>93,518</b>	<b>864,909</b>	<b>22,57,008</b>	<b>5,82,076</b>	<b>10,74,332</b>	<b>41,919</b>	<b>28,772</b>	<b>17,45,023</b>	<b>28,092</b>	<b>17,73,105</b>
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>												
<i>Canals in operation.</i>												
Shikarpur Canals District.	Canals in Rohri ... ..	39,373	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	8,229	2,24,457
	Rajh Canal ... ..	9,770	161	9,931	11,295	...	11,295	40	608	11,943	540	12,483
	Chittri Canal ... ..	10,104	769	10,873	41,269	...	41,269	444	514	42,227	600	42,827
	Ganang Canal ... ..	6,381	946	7,327	24,382	...	24,382	521	474	25,377	600	26,046
	<b>Total ...</b>	<b>128,837</b>	<b>17,610</b>	<b>146,447</b>	<b>4,51,533</b>	...	<b>4,51,533</b>	<b>3,330</b>	<b>8,489</b>	<b>4,63,352</b>	<b>14,607</b>	<b>4,77,959</b>
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	12,991	...	12,991	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	20,613	...	20,613	1,153	181	21,947	277	22,224
	<b>Total ...</b>	<b>313,056</b>	<b>17,116</b>	<b>330,172</b>	<b>10,01,350</b>	...	<b>10,01,350</b>	<b>7,845</b>	<b>21,463</b>	<b>10,30,678</b>	<b>14,813</b>	<b>10,45,491</b>
Nasrat Canals District.	Mehrabwah ... ..	12,061	162	12,223	31,591	...	31,591	1	60	31,642	541	32,183
	Naulakhi ... ..	52,230	2,224	54,454	1,40,396	...	1,40,396	808	278	1,41,482	716	1,42,198
	Dambro ... ..	12,349	739	13,078	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
	<b>Total ...</b>	<b>88,228</b>	<b>3,237</b>	<b>91,465</b>	<b>2,33,938</b>	...	<b>2,33,938</b>	<b>1,375</b>	<b>917</b>	<b>2,36,280</b>	<b>2,405</b>	<b>2,38,685</b>
Hyderabad Canals District.	Gharo Mahmudo ... ..	66,659	17,167	83,826	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	76,593	...	76,593	2,346	1,301	80,240	3,185	83,425
	Nasir ... ..	30,714	1,565	32,279	70,809	...	70,809	175	1,369	72,153	1,270	73,423
	Bauwah ... ..	778	...	778	1,998	...	1,998	...	302	2,300	113	2,413
	Other Canals ... ..	4,935	8	4,943	11,390	...	11,390	...	404	11,794	75	11,869
	<b>Total ...</b>	<b>139,302</b>	<b>25,280</b>	<b>164,582</b>	<b>3,23,919</b>	...	<b>3,23,919</b>	<b>8,550</b>	<b>6,406</b>	<b>3,38,875</b>	<b>7,083</b>	<b>3,45,958</b>
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 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
<b>MINOR WORKS—concluded.</b>												
<b>IRRIGATION AND NAVIGATION—concluded.</b>												
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.</b>												
<b>Canals in operation—concluded.</b>												
Karachi Canals District.	20,883	481	21,364	25,711	...	...	25,711	363	150	26,213	428	26,641
Baghar ... ..	31,989	2,010	33,999	52,200	...	...	52,200	1,031	1,680	54,910	688	55,598
Indus Canal's Right Bank ...	31,733	1,403	33,136	44,041	...	...	44,041	537	99	44,680	1,221	45,901
Pinyari ... ..	19,187	1,882	21,069	1,18,975	...	...	1,18,975	478	3,855	1,23,308	3,837	1,27,145
Indus Canals Left Bank ...	51,414	217	51,631	67,534	...	...	67,534	58	235	67,827	1,605	69,432
Total ... ..	237,076	6,570	243,646	3,08,003	...	...	3,08,003	2,476	5,069	3,15,548	7,832	3,23,380
Total Minor Works, Revenue Accounts only ...	930,070	71,000	1,001,070	23,77,079	...	...	23,77,079	24,838	43,624	24,46,141	47,484	24,93,625
<b>AGRICULTURAL WORKS.</b>												
<b>WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.</b>												
Begari Canals District ... Kashmir Bund ...	2,068	...	2,068	5,347	...	...	5,347	...	1,553	6,900	358	7,258
Bhikarpur Canals District.	91	...	91	220	...	...	220	...	110	330	...	345
Bunds in Rohri ... ..	6,078	2,937	9,015	21,508	...	...	21,508	40	2,201	23,749	1,203	24,952
Sukkur Begari Bund ... ..	1,341	...	1,341	3,093	...	...	3,093	...	88	4,080	...	4,080
Total ... ..	7,516	2,937	10,453	25,726	...	...	25,726	40	2,400	28,174	1,203	29,377
Ghar Canals District ... Ghar Bunds ...	921	53	974	4,044	...	...	4,044	91	203	4,337	27	4,364
Western Nara District.	2,697	...	2,697	9,303	...	...	9,303	...	422	9,724	20	9,744
Nara Bunds ... ..	...	...	...	...	...	...	...	...	3	9	...	3
Bunds, North of Kotri ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ... ..	2,697	...	2,697	9,303	...	...	9,303	...	425	9,727	20	9,747
Karachi Canals District.	4,170	310	4,480	5,033	...	...	5,033	...	2,516	8,152	240	8,392
Bunds, Right bank ... ..	4,404	119	4,523	7,470	...	...	7,470	...	2,000	7,700	152	7,852
Bunds, Left bank ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Total ... ..	8,570	429	9,000	13,406	...	...	13,406	...	2,746	16,152	392	16,544
Karachi Buildings District ... M. I. Depot ...	...	...	...	...	...	...	...	...	211	211	...	211
Nasrat Canals District.	...	...	...	...	...	...	...	...	10	10	...	10
Miscellaneous Receipts ...	...	...	...	...	...	...	...	...	...	...	...	...
Hyderabad Canals District.	...	...	...	...	...	...	...	...	12	12	...	12
Miscellaneous Receipts ...	...	...	...	...	...	...	...	...	...	...	...	...
Fuleli Canals District.	...	...	...	...	...	...	...	...	220	220	...	220
Miscellaneous Receipts ...	...	...	...	...	...	...	...	...	...	...	...	...
Total, Agricultural Works ...	22,679	3,484	26,163	57,826	...	...	57,826	131	7,905	65,761	2,025	67,786
<b>Average Revenue before improvements, vide Bombay Government Resolution Nos. 389, 599 and 507, dated 28th February and 13th April 1893 and 23rd February 1906, and Nos. 1679 and 1701, dated 24th June 1905, and No. 1374, dated 26th May 1906.</b>												
Begari Canals District ... Begari Canal ...	...	...	...	...	...	33,613	33,613	...	...	33,613	...	33,613
Bhikarpur Canals District ... Mahiwha ...	...	...	...	...	...	1,10,497	1,10,497	...	...	1,10,497	...	1,10,497
Ghar Canals District.	...	...	...	...	...	81,800	81,800	...	...	81,800	...	81,800
Sukkur Canal ... ..	...	...	...	...	...	1,35,512	1,35,512	...	...	1,35,512	...	1,35,512
Ghar Canal ... ..	...	...	...	...	...	2,20,318	2,20,318	...	...	2,20,318	...	2,20,318
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.	...	...	...	...	...	83,913	83,913	...	...	83,913	...	83,913
Dad Canal ... ..	...	...	...	...	...	72,854	72,854	...	...	72,854	...	72,854
Nasrat Canal ... ..	...	...	...	...	...	1,56,767	1,56,767	...	...	1,56,767	...	1,56,767
Total ... ..	...	...	...	...	...	1,56,767	1,56,767	...	...	1,56,767	...	1,56,767
Hyderabad Canals District.	...	...	...	...	...	17,505	17,505	...	...	17,505	...	17,505
Alibhar Kocheri ... ..	...	...	...	...	...	59,437	59,437	...	...	59,437	...	59,437
Great Mamk ... ..	...	...	...	...	...	18,506	18,506	...	...	18,506	...	18,506
Safraz ... ..	...	...	...	...	...	95,748	95,748	...	...	95,748	...	95,748
Total ... ..	...	...	...	...	...	95,748	95,748	...	...	95,748	...	95,748
Fuleli Canals District.	...	...	...	...	...	2,44,549	2,44,549	...	...	2,44,549	...	2,44,549
Fuleli Canal ... ..	...	...	...	...	...	5,916	5,916	...	...	5,916	...	5,916
Basantali Canal ... ..	...	...	...	...	...	2,50,465	2,50,465	...	...	2,50,465	...	2,50,465
Total ... ..	...	...	...	...	...	2,50,465	2,50,465	...	...	2,50,465	...	2,50,465
Grand Total, Agricultural Works ...	22,679	3,484	26,163	57,826	...	8,83,097	9,44,822	131	7,905	9,52,758	2,025	9,54,783
<b>Indus Right Bank Division.</b>												
Begari Canals District ...	420,803	88,632	509,435	9,02,698	33,613	33,613	9,02,698	1,15,045	11,481	10,20,224	13,764	10,42,978
Bhikarpur Canals District ...	191,764	22,208	213,972	6,22,756	1,10,497	1,10,497	6,22,756	4,104	14,698	6,41,558	18,845	6,60,403
Ghar Canals District ...	316,990	17,304	334,294	12,43,747	2,20,318	2,20,318	12,43,747	8,155	16,839	12,63,811	8,359	12,72,200
Western Nara District ...	316,753	17,116	333,869	10,10,812	...	...	10,10,812	7,845	21,908	10,40,405	14,838	10,55,238
Karachi Canals District ...	262,616	6,132	268,748	3,48,044	16,145	16,145	3,48,044	2,493	8,705	3,54,247	8,898	3,63,145
Karachi Buildings District ...	...	...	...	...	...	...	...	...	211	211	...	211
Total ... ..	1,608,896	151,472	1,760,368	41,21,597	3,80,573	3,80,573	41,21,597	1,34,647	72,942	43,29,486	64,689	43,94,176
<b>Indus Left Bank Division.</b>												
Jamrao Canal District ...	229,701	2,999	232,700	6,81,777	...	...	6,81,777	1,032	56,204	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	1,030	16,695	6,30,938	3,847	6,43,285
Nasrat Canals District ...	283,662	10,615	294,277	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	37,073	280,195	6,77,896	95,748	95,748	6,77,896	13,593	8,167	5,99,456	12,831	6,12,287
Fuleli Canals District ...	359,303	65,682	424,985	8,01,579	2,50,465	2,50,465	8,01,579	33,252	11,866	8,46,716	14,272	8,60,988
Total ... ..	1,362,556	126,051	1,488,607	34,12,105	5,08,424	5,08,424	34,12,105	54,471	98,446	35,66,021	1,15,045	36,81,066
Grand Total, Sind ...	2,869,751	277,523	3,147,274	75,34,002	8,88,997	8,88,997	75,34,002	1,89,119	1,71,397	78,91,507	1,79,734	80,71,241

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 Jāghir 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
<b>MAJOR WORKS.</b>	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>PRODUCTIVE WORKS.</b>											
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>											
<i>Canals in Operation.</i>											
Begāri Canals District. { Khelat Lands Foreign { Desert Canal ... Begāri Canal ... Total ...	28,923 27,263 53,186	10,209 2,906 13,115	39,132 30,172 69,304	87,220 16,800 63,610	52,882 28,404 80,786	23,610 3,680 27,190	75,992 31,984 1,07,976	6,165 14,326 20,490	1,07,057 34,049 1,41,106	81,527 50,006 1,11,533	25,530 4,043 29,573
Desert Canal ... Unharwah ... Begāri Canal ... Total ...	2,013 35 12,920 14,968	1,247 3 3,110 4,360	3,260 38 16,030 19,328	373 302 1,251 1,926	325 159 3,513 3,997	185 47 1,289 1,521	510 206 4,802 6,518	... ... ... ...	884 508 6,043 7,444	502 302 2,708 3,512	381 206 3,345 3,932
Shikārpur Canals District—Mabihwah.	1,139	523	1,661	852	437	193	633	...	1,515	731	781
Jāmrao Canal District—Jāmrao Canal.	2,277	722	3,000	1,988	1,017	517	1,534	...	3,502	1,652	1,850
Nasrat Canals District. { Dād Canal ... Nasrat Canal ... Total ...	5,323 933 6,256	1,767 105 1,872	7,085 503 7,588	-2,758 178 2,580	2,378 70 2,448	548 69 617	2,926 139 3,065	...	168 317 465	2,615 245 2,860	-2,447 72 -2,375
Eastern Nāra District. { Nāra Supply Channel ... Eastern Nāra ... Mithrao Canal ... Thar Canal ... Khipro Canal ... Heron Canal ... Hiral Canal ... Total ...	1,842 ... 433 2,182 ... ... ... 4,957	3,183 ... 121 303 ... ... ... 3,615	5,030 ... 1,054 2,488 ... ... ... 8,672	9,280 ... 185 44 ... ... ... 9,440	491 ... 511 1,248 ... ... ... 2,230	827 ... 48 56 ... ... ... 980	1,318 ... 550 1,313 ... ... ... 3,190	6,604 ... ... 28 ... ... ... 6,832	3,774 ... 744 1,329 ... ... ... 5,847	8 ... 986 1,235 ... ... ... 1,939	3,766 ... 48 94 ... ... ... 3,908
Total, Major Works ...	85,198	21,256	106,452	65,295	90,915	31,001	1,21,918	27,312	1,59,890	1,22,230	37,659
<b>MINOR WORKS.</b>											
<b>IRRIGATION AND NAVIGATION.</b>											
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>											
<i>Canals in Operation.</i>											
Ghar Canals District. { Sukkur Canal ... Ghar Canal ... Total ...	2,061 13,408 15,469	741 1,022 1,763	2,842 14,470 17,312	952 ... 1493	1,036 4,154 5,190	389 895 774	1,425 4,539 5,964	...	2,407 4,539 6,946	525 4,539 5,064	1,882 ... 4,882
Karachi Canals District—Sattah Canal.	49	12	61	-49	22	4	26	...	-23	22	-45
Hyderabad Canals District. { Alibhar Kacheri ... Mirak ... Sarfaraz ... Total ...	1,209 7,031 2,690 11,199	423 942 160 1,514	1,691 7,973 3,059 12,713	-99 300 5,346 5,607	617 2,381 1,249 4,246	35 256 67 344	652 2,617 1,395 4,594	...	573 2,997 6,651 10,201	52 2,959 1,835 4,843	501 41 4,818 5,358
Fuleli Canals District. { Fuleli Canal ... Hasanali Canal ... Total ...	57,071 633 58,607	4,804 1 4,805	62,775 637 63,412	3,187 ... 3,187	26,972 298 27,270	2,162 1 2,163	29,134 299 30,433	...	32,321 299 32,620	31,654 336 31,990	637 -37 630
Total, Minor Works, Capital and Revenue Accounts ...	85,384	6,134	93,518	9,727	36,728	3,290	40,017	...	49,744	41,919	7,825
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>											
<i>Canals in Operation.</i>											
Shikarpur Canals District. { Canals in Rohri ... Sind Canal ... Rajib Canal ... Chitti Canal ... Garang Canal ... Total ...	7,019 4,002 10 269 404 11,764	2,973 1,603 161 540 482 5,714	9,992 5,610 161 789 946 17,478	1,303 1,619 11 652 658 4,771	897 1,885 5 162 245 3,194	341 860 92 246 233 1,712	1,298 2,685 97 408 478 4,906	...	2,541 4,234 108 1,060 1,134 9,077	1,217 1,015 40 444 521 3,237	1,324 3,219 68 616 613 5,940
Bhawalpur Lands Foreign—Canals in Rohri. { Nāra ... New Feeder Western ... Nāra ... Wahur ... Marvi ... Pritchard Canal ... Dadu Canals ... Phitta Canal ... Manchar ... Aral ... Other Canals North of ... Kotri ... Virah Bund ... Total ...	87 6,725 ... ... ... 224 676 682 746 ... 11,053	45 3,930 ... ... ... 718 949 406 ... 6,063	132 12,715 ... ... ... 1,394 1,631 1,152 ... 17,116	43 5,983 ... ... ... 553 424 964 ... 8,039	33 4,715 ... ... ... 350 306 350 ... 5,805	17 1,622 ... ... ... 317 409 33 ... 2,410	50 6,397 ... ... ... 697 714 383 ... 8,215	...	93 12,255 ... ... ... 1,250 1,133 1,347 ... 16,189	93 5,090 ... ... ... 575 644 1,163 ... 7,845	... 7,165 ... ... ... 675 294 194 ... 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.												
Canals in Operation—concluded.												
Karachi Canals District.	Kalri ... ..	306	63	444	132	181	38	219	...	351	352	—1
	Baghar ... ..	1,737	273	2,010	667	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	12	217	160	134	4	138	...	208	88	210
	Total ... ..	4,009	697	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	590	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 Mahmudo ... ..	14,873	2,295	17,167	—1,845	5,657	264	5,921	...	4,076	6,029	—1,953
	Kari Bhurnali ... ..	0,184	316	6,600	2,253	2,469	151	2,620	...	4,878	2,346	2,532
	Nasir ... ..	1,354	201	1,585	2,882	570	10	580	...	3,442	175	3,267
	Ronwah ... ..	...	...	...	...	...	...	...	...	...	...	...
	Other Canals ... ..	8	...	8	41	...	...	...	...	41	...	41
	Total ... ..	22,448	2,812	25,260	3,310	8,696	425	9,121	...	12,437	8,550	3,887
Fuleli Canals District.	Other Canals ... ..	2,233	47	2,280	...	1,015	22	1,037	...	1,037	1,262	—225
Total, Minor Works, Revenue Accounts only ... ..												
		55,406	15,663	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—Kashmor Bund District.	...	...	...	...	...	...	...	...	...	...	...	
Shikarpur Canals District.	Bunds in Rohri ... ..	...	...	...	...	...	...	...	...	...	...	
	Sukkur Bund ... ..	1,030	1,895	2,937	53	...	...	...	...	53	40	13
	Kasimpur Bund ... ..	...	...	...	...	...	...	...	...	...	...	
	Total ... ..	1,030	1,895	2,937	53	...	...	...	...	53	40	13
Ghar Canals District.	Ghar Bunds ... ..	52	...	52	137	21	...	21	...	158	91	67
Western Nara 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	16	206	...	93	191	—38
Foreign Lands.												
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
Jdgahir Lands.												
Indus Right Bank Division.	Begari Canals District	14,068	4,380	19,338	1,923	3,997	1,581	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	5,985	...	7,104	5,155	1,949
	Western Nara District ...	11,063	6,069	17,116	8,039	5,805	2,410	8,215	65	16,189	7,815	8,344
	Karachi Canals District ...	5,437	695	6,132	1,108	2,220	255	2,475	...	3,533	2,498	1,035
	Total ... ..	60,961	21,065	82,036	17,298	20,864	6,868	27,732	65	44,965	23,031	21,944
	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	49,967	277,523	93,586	1,49,833	39,218	1,89,056	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.																	
Canals in Operation.																	
Begdri Canals District.																	
Desert Canal ...	11,891	1,522	160	13,569	78,783	25,124	1,03,907	13,299	1,363	1,19,549	16,712	1,35,261	1,15,778	16,540	16,712	2,391	1,51,221
Unharwah ...	749	98	15	862	32,631	8,303	40,934	5,270	831	47,035	7,767	54,802	41,683	6,212	7,767	751	56,413
Begdri Canal ...	61,561	7,777	472	69,810	1,47,516	25,251	1,72,767	21,828	1,826	1,95,910	35,334	2,31,253	2,34,323	31,401	35,334	4,604	3,05,637
Total ...	74,201	9,397	647	84,245	2,58,910	58,678	3,17,588	40,955	3,520	3,61,503	59,813	4,21,316	3,91,750	63,953	59,813	7,746	5,13,301
Begri Shikarpur Canals District.																	
Mahliwah ...	3,036	425	54	4,415	39,583	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	7,030	248	17,661	1,04,758	53,066	1,57,824	1,33,080	(a) 4,171 -788	2,94,267	22,201	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	4,321	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	1,80,243
Total ...	51,336	9,352	105	61,359	1,81,073	28,285	2,09,358	40,562	221	2,50,141	33,742	2,83,883	2,60,710	50,790	33,742	7,072	3,52,314
Eastern District.																	
Nara Supply Channel.	63	9	...	62	8,077	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	67,980	19,235	20,348	2,763	1,10,335
Thar Canal ...	2,040	611	7	2,658	14,846	5,182	20,028	5,096	70	25,094	9,619	35,715	22,068	6,686	9,619	925	39,299
Khipro Canal ...	...	...	...	...	1,792	...	1,792	631	6	2,329	303	2,632	1,792	637	303	75	2,096
Huma Canal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mirai Canal ...	...	...	...	...	5,311	3,565	8,776	2,583	31	11,400	2,940	14,340	8,776	2,624	2,940	863	14,703
Total ...	18,823	5,371	63	23,756	93,881	30,434	1,24,315	35,249	-349	1,50,223	37,620	1,96,843	1,42,637	40,242	37,620	3,687	2,26,286
Total, Major Works	1,57,204	33,063	1,063	1,91,330	6,78,203	1,82,347	8,60,549	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.																	
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																	
Canals in Operation.																	
Ghar Canals District.																	
Sukkur Canal ...	...	...	...	...	34,102	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	1,19,435	33,793	226	1,53,463	64,654	2,18,107	1,23,308	34,536	64,654	5,187	2,26,983
Total ...	2,873	813	5	3,691	1,37,190	25,222	1,62,412	46,021	307	2,06,740	83,633	2,92,373	1,85,285	47,146	83,633	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.																	
Alibhar Kacheri ...	...	...	...	...	2,759	2,729	996	18	3,743	2,433	6,226	2,729	1,014	2,433	140	636	...
Marak ...	3,864	1,892	25	5,301	18,091	3,652	19,743	7,073	125	26,941	12,504	39,445	23,627	8,615	12,504	1,389	45,932
Sarfaraz ...	...	...	...	...	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 ...	3,864	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	72,233
Fuleli Canals District.																	
Fuleli Canal ...	15,397	5,155	232	20,784	1,47,734	22,747	1,70,481	57,084	2,564	2,30,129	53,913	2,84,042	1,85,879	65,035	58,013	8,762	2,13,578
Hasanali Canal ...	1,438	492	22	1,942	10,844	2,780	13,624	4,564	205	18,373	2,568	20,939	15,012	5,273	2,568	706	23,547
Total ...	16,835	5,647	254	23,726	1,58,578	25,527	1,84,105	61,648	2,769	2,48,502	56,479	3,04,981	2,00,891	70,308	60,581	9,468	2,37,105
Total, Minor Works, Capital and Revenue Accounts are kept	23,592	7,843	284	31,718	3,27,545	60,923	3,88,468	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
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																	
Canals in Operation.																	
Shikarpur Canals District.																	
Canals in Bohri ...	1,533	183	5	1,717	44,530	4,901	49,431	6,107	-163	55,375	8,123	63,498	50,964	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 ...	4,363	540	14	4,917	1,374	493	1,867	224	-6	2,090	2,500	4,590	6,130	744	2,500	...	9,42
Chitti Canal ...	793	98	3	894	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	4,744	1,370	914	2,284	232	-8	2,516	1,516	4,032	6,574	790	1,516	...	8,68
Gidu Dhand ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	26,612	3,275	88	29,969	1,05,125	14,723	1,19,848	14,906	-397	1,34,257	27,602	1,61,859	1,46,360	17,599	27,602	...	1,91,55

(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-lish-ment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Estab-lish-ment.	Tools and Plant.	Total.				Public Works Department, in-cluding Tools and Plant.	Civil Department Collection Charges.					
					Works.	Works Estab-lish-ment.	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	1,43,790	26,206	53,295	...	2,23,291		
	New Feeder Western	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Nara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Marvi	...	...	...	...	3,700	289	4,088	728	17	4,833	781	5,614	4,088	745	781	...	5,614		
	Wahur	...	...	...	...	3,289	200	3,488	440	10	2,918	439	3,357	2,468	450	439	...	3,357		
	Pritchard	...	...	...	...	89,121	3,380	92,481	16,467	389	1,09,337	1,700	1,11,040	93,212	16,950	1,709	...	1,11,010		
	Dadu Canals	...	...	...	...	5,627	1,349	6,976	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Nasrat District.	Canals north of Kotri.	488	87	2	577	6,863	2,040	8,703	1,549	37	10,289	1,314	11,603	9,191	1,675	1,314	...	12,180		
	Virah Bund	...	...	...	...	500	...	500	89	2	591	...	591	500	91	...	...	591		
	Total	21,959	3,010	92	25,961	2,11,640	37,329	2,48,969	44,329	1,047	2,94,345	61,111	3,55,456	2,70,928	49,378	61,111	...	3,61,417		
	Mohrabwah	447	87	3	537	14,105	1,068	15,163	2,950	109	18,222	1,009	20,131	15,610	3,149	1,909	...	20,663		
	Naulakhi	4,149	807	30	4,985	22,207	3,976	26,283	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	1,076	8,586	1,670	69	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	70,726	14,132	84,857	65,068	13,130	14,132	...	92,350		
	Hyderabad 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	...	58,060	
		Karl Shannali	1,394	505	9	1,908	8,108	8,068	11,165	4,076	72	15,312	4,653	19,964	12,549	4,661	4,652	...	21,892	
Nasir		376	320	6	1,202	14,794	2,169	16,963	6,191	110	23,264	4,320	27,583	17,839	6,627	4,329	...	28,795		
Renwah		309	113	2	424	1,454	...	1,454	531	0	1,994	129	2,114	1,703	656	120	...	2,535		
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	...	1,44,500		
Fateh District.		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	...	30,680	
		Karachi District.	Kalri	15,394	792	69	16,275	12,542	4,564	17,106	830	89	19,085	1,600	19,685	32,500	1,860	1,600	...	35,900
			Baghar	46,724	2,353	265	49,342	18,910	9,713	28,523	1,468	168	30,157	3,110	33,267	74,247	4,252	3,110	...	81,609
			Indus Canal Right Bank	...	...	...	...	13,290	2,014	15,304	737	89	16,180	2,682	18,862	15,304	876	2,682	...	18,632
	Pinyari		19,453	1,001	119	20,567	64,639	18,279	82,978	4,269	431	87,728	6,939	94,637	1,02,431	5,864	6,909	...	1,15,204	
	Indus Canal Left Bank		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	81,718	4,205	474	86,397	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 21,625 605 1,83,564 5,80,903 1,11,470 6,92,292 1,10,836 2,628 8,05,740 1,45,004 9,50,744 8,53,526 1,35,778 1,45,004 ... 11,84,308																			
	AGRICULTURAL WORKS.																			
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																				
Bhakar District.	Kashmir Bund	203	42	...	245	1,45,597	39,204	1,84,791	38,387	120	2,23,298	326	2,23,624	1,84,994	88,549	326	...	2,23,624		
	Shikarpur District.	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	...	1,33,034	
		Kashpur Bund	...	...	...	...	1,146	858	12,004	200	8	2,212	240	2,458	2,004	208	246	...	2,458	
Bhakar District.		Bunds Rohri District..	601	125	5	731	3,270	2,027	5,297	688	27	6,010	14	6,024	5,893	843	14	...	6,755	
	Total	3,453	719	29	4,201	1,07,093	13,600	1,20,693	23,888	953	1,39,494	1,552	1,41,046	1,18,100	25,559	1,552	...	1,45,247		
	Bhakar District.	Ghar Bunds	...	...	...	...	2,136	4,559	6,695	1,439	94	8,228	248	8,476	8,695	1,533	248	...	8,476	
Western Nara District.		Nara Bunds	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	...	90,432	
		Bunds north of Kotri.	7,146	1,495	8	8,644	3,185	534	8,409	84	4	8,464	...	8,464	11,105	2,348	...	...	13,513	
	Total	66,919	13,997	74	80,990	14,528	8,635	23,463	4,098	26	23,397	558	23,955	90,382	12,005	558	...	1,00,945		

\* 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 :—

Kashpur 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 ...	84,64	18,167	403	1,03,27	30,384	6,176	43,659	9,120	202	51,890	343	52,233	1,27,207	27,800	343	...	1,55,440
	Bunds, Left Bank ...	1,03,022	21,983	434	1,24,969	65,729	15,077	80,806	17,383	334	98,593	427	99,020	1,82,826	40,034	427	...	2,23,339
	Total ...	1,60,670	40,049	880	2,27,506	1,02,113	21,252	1,23,335	26,492	586	1,50,413	770	1,51,183	3,10,036	67,834	770	...	3,78,779
Karachi Buildings District.	River District Mathematical Instrument Depot ...	94,893	70,417	9,934	1,84,245	26,490	...	26,490	22,169	2,773	51,432	...	51,432	1,21,383	1,14,292	...	...	2,35,677
	...	...	940	5,723	6,663	...	...	...	...	...	...	...	...	...	6,669	...	...	6,669
	Total ...	94,893	80,363	15,656	1,90,914	26,490	...	26,490	22,169	2,773	51,432	...	51,432	1,21,383	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
	Tirchi Bund ...	6,650	1,710	25	8,384	78	170	257	68	1	324	...	324	6,997	1,811	...	...	8,718
	Maintaining Bench Marks and Centre Mark line of proposed Rohri-Hyderabad Canal ...	...	...	...	...	508	...	508	131	2	639	...	639	500	133	...	...	639
	Canal Chouki at Doulatpur ...	...	...	...	...	613	...	613	169	2	774	...	774	613	161	...	...	774
	Bund between Nasrat and Naulakhi ...	...	...	...	...	19	361	370	96	2	468	...	468	370	96	...	...	468
	Naulakhi-Bhorthi Bund ...	...	...	...	...	1,540	1,417	2,957	704	11	3,732	...	3,732	2,957	775	...	...	3,732
	Indus Survey Marks ...	...	...	...	...	32	...	32	8	...	40	...	40	32	8	...	...	40
Total ...	8,084	2,090	31	10,205	8,094	2,623	5,617	1,452	21	7,070	(a) 1,264	(a) 1,264	7,070	(a) 1,264	13,701	3,594	(a) 1,264	17,295
Hyderabad Canals District.	Renwah Bund ...	412	88	25	525	2,506	...	2,506	800	173	3,579	...	3,579	3,218	896	...	...	4,104
	Indus Survey Marks ...	10	4	1	15	...	...	...	...	...	...	...	...	16	5	...	...	21
Total ...	423	92	26	540	2,506	...	2,506	800	173	3,579	(a) 1,082	(a) 1,082	3,579	(a) 1,082	3,234	801	(a) 1,082	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	11,125	...	...	60,993
	River Bunds ...	...	...	...	...	20,872	4,467	25,339	5,301	376	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	832	77,056	(a) 4	(a) 4	77,056	(a) 4	4,212	16,892	(a) 4
Total, Agricultural Works ...																		
Indus Right Bank Division.	Begari 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	5,78,738	92,502	80,139	7,746	7,37,170
	Shikarpur Canals District ...	33,901	4,419	5	38,325	2,45,698	40,287	2,85,985	44,244	1,263	3,31,472	40,509	3,71,981	3,19,398	49,921	49,500	832	4,11,133
	Ghar Canals District ...	2,974	813	5	3,681	1,39,324	29,731	1,69,107	47,460	401	2,16,968	83,871	3,00,839	1,71,089	48,678	83,871	6,930	3,11,430
	Western Nara District.	65,878	17,907	166	1,08,951	2,23,168	40,264	2,72,432	49,237	1,073	3,22,742	61,689	3,84,411	3,61,310	68,383	61,689	...	4,91,362
	Karachi Canals District ...	2,68,943	44,215	1,360	3,13,993	2,48,330	62,092	3,10,472	36,080	1,672	3,43,234	20,666	3,63,900	5,78,960	83,367	20,666	62	6,82,055
	Korachi Buildings District ...	94,893	80,363	15,656	1,90,914	26,490	...	26,490	22,169	2,773	51,432	...	51,432	1,21,383	1,20,961	...	...	2,42,346
Total ...	5,63,360	1,57,184	17,825	7,38,369	12,00,559	2,73,286	15,66,845	2,77,932	10,822	18,55,640	2,66,864	21,22,503	21,80,184	4,03,813	2,66,864	15,545	28,70,399	
Indus Left Bank Division.	Jamrao Canal District.	9,303	7,020	248	17,581	1,04,758	63,066	1,57,824	1,39,050	3,383	2,04,237	22,201	3,16,438	1,67,217	1,44,631	22,201	19,749	3,53,789
	Eastern Nara District.	19,322	5,371	63	23,756	93,881	30,434	1,24,315	36,218	—240	1,69,223	37,620	1,96,843	1,42,637	40,842	37,620	5,667	2,23,236
	Nasrat Canals District ...	65,671	13,256	131	79,057	2,34,336	89,492	2,73,828	53,483	1,920	3,29,220	47,874	3,77,094	3,39,499	68,778	47,874	7,072	4,83,223
	Hyderabad Canals District ...	27,681	10,986	244	38,911	85,645	17,642	1,03,287	37,140	1,601	1,42,328	39,855	1,82,183	1,81,168	49,381	39,855	1,884	2,21,938
	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	94,293	60,016	9,433	4,59,145
Total ...	1,50,706	45,124	1,089	1,97,009	7,62,040	1,73,053	9,26,103	3,40,366	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 ...																		
	7,14,136	2,02,808	13,911	9,35,357	20,42,599	4,49,339	24,91,948	6,18,236	21,678	31,31,914	4,74,120	36,06,034	32,06,083	8,61,188	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.	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.																	
Canals in Operation.																	
Begari District.	Desert Canal	166,634	3,38,039	1,34,472	39.8	0.8	161,944	3,24,877	1,35,261	41.6	0.8	74	258	332	...	332	
	Unharwah	70,194	1,59,868	43,842	27.8	0.6	60,450	1,31,100	54,802	42.1	0.9	31	86	120	...	120	
	Begari Canal	156,439	3,29,616	1,80,589	54.9	1.2	284,155	5,67,257	2,31,253	40.8	0.8	80	168	248	...	248	
	Total	393,167	8,27,511	3,58,953	43.4	0.9	506,549	10,22,324	4,21,316	41.2	0.9	188	512	700	...	700	
Shikarpur Canals District—Mahiwar.		65,771	1,72,371	63,855	37.0	1.0	57,073	1,60,032	69,076	46.0	1.2	29	204	298	...	298	
Jamrao Canal District—Jamrao Canal		219,725	6,72,333	2,87,175	42.7	1.3	232,760	7,39,033	3,16,488	42.8	1.3	117	620	637	...	637	
Nasrat Canals District.	Dad Canal	104,445	2,46,514	1,27,553	51.7	1.2	108,609	2,50,293	1,33,909	53.5	1.2	87	283	380	...	380	
	Nasrat Canal	89,023	2,44,579	1,07,441	68.4	1.9	96,414	2,52,686	1,49,974	59.3	1.5	80	199	279	...	279	
Total		193,468	4,91,093	2,34,994	60.1	1.5	202,022	5,02,979	2,83,883	56.4	1.4	167	492	659	...	659	
Eastern Nara District.	Nara Supply Channel	7,963	16,351	13,811	84.5	1.7	9,205	14,939	12,612	84.4	1.3	12	...	12	...	12	
	Eastern Nara	37,173	69,181	35,997	52.0	1.0	37,200	62,763	38,698	61.6	1.0	...	...	...	179	...	
	Mithrao Canal	117,756	3,44,512	93,869	27.2	0.8	128,178	3,44,174	92,833	26.9	0.7	92	40	141	...	234	
	Thar Canal	58,639	1,76,902	34,236	19.5	0.6	58,326	1,61,786	35,716	22.1	0.6	21	43	72	...	104	
	Khilra Canal	3,782	6,446	5,406	99.3	1.4	3,495	4,994	2,621	52.0	0.7	15	...	15	...	15	
	Heran Canal	1,693	4,259	3,864	20.3	0.5	1,693	2,075	1,241	5.9	0.1	3	...	3	...	3	
Hiral 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	6,89,998	1,90,843	30.7	0.8	105	119	244	304	563	
Total, Major Works		1,117,694	28,34,225	12,02,091	42.4	1.1	1,255,054	30,54,506	12,87,806	42.1	1.0	666	1,907	2,573	304	2,877	
MINOR WORKS.																	
IRRIGATION AND NAVIGATION.																	
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																	
Canals in Operation.																	
Ghar District.	Sukkur Canal	75,780	2,40,311	68,852	28.7	0.9	80,451	2,60,870	74,258	28.5	0.9	74	58	130	...	130	
	Ghar Canal	249,972	9,36,776	2,26,120	24.4	0.9	251,837	9,98,634	2,15,107	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	
Karachi Canals District—Sattah Canal		14,065	24,946	23,592	94.3	1.7	16,121	21,057	10,511	49.9	0.7	20	6	35	...	35	
Hyderabad Canals District.	Alibhar Kacheri	13,707	29,979	6,515	21.7	0.5	14,772	30,818	6,226	20.1	0.4	26	32	58	...	58	
	Great Marak	63,217	1,62,335	44,594	27.2	0.7	71,164	1,68,342	39,445	23.4	0.5	26	145	171	...	171	
	Sarraz	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	
Fuleli Canals District.	Fuleli Canal	377,212	8,01,109	2,93,946	37.1	0.8	392,185	7,44,268	2,84,042	38.1	0.7	100	915	1,015	...	1,015	
	Hasanali Canal	17,449	43,176	22,935	53.1	1.3	17,779	42,301	20,939	49.5	1.2	35	60	93	...	93	
Total		394,661	8,44,285	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		847,123	22,97,191	7,08,759	30.9	0.8	864,909	23,27,890	6,72,901	28.9	0.8	435	1,477	1,912	...	1,912	
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																	
Canals in Operation																	
Shikarpur Canals District.	Canals in Rohri	52,360	1,37,602	39,885	29.0	0.8	49,496	1,37,677	63,493	46.1	1.3	108	11	119	...	119	
	Sind Canal	65,932	1,96,068	85,548	43.6	1.3	68,840	2,16,225	83,017	38.4	1.2	80	70	120	...	120	
	Rajib Canal	8,401	32,339	7,049	22.0	0.8	9,931	41,843	4,530	10.8	0.5	10	...	10	...	10	
	Chitti Canal	9,486	34,151	9,614	28.2	1.0	10,873	42,327	6,740	16.0	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	1,40,521	35.7	1.1	146,447	4,63,352	1,61,859	34.9	1.1	181	81	265	...	265	
Western Nara District.	Nara	251,267	8,56,464	1,67,418	19.5	0.7	250,495	8,43,501	2,09,015	24.8	0.8	156	277	433	...	433	
	New Feeder, West-	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	ern Nara	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	15	...	15	...	15	
	Wahur	1,794	5,275	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	
	Dadu Canals	17,212	42,470	9,559	22.5	0.6	4,745	13,454	10,928	81.2	2.3	19	14	38	...	38	
	Phitta	6,102	14,036	2,274	16.2	0.4	2,354	6,233	3,402	63.2	1.4	41	...	41	...	41	
	Manchar	15,236	35,501	2,265	6.2	0.1	16,426	44,622	...	...	...	...	...	...	...	...	
	Aral Canals, north of Kotri	10,369	24,588	1,417	5.8	0.1	8,164	13,966	...	...	...	20	13	38	...	38	
Virah Bund		14,107	31,968	11,862	37.1	0.8	12,359	21,847	11,603	53.1	0.9	61	...	61	...	61	
Total		329,913	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 Canals District.	Mehrabwah	11,453	25,102	24,503	97.6	2.1	13,113	31,642	30,131	63.6	1.5	29	16	45	...	45	
	Naulakhi	54,332	1,41,843	34,303	24.2	0.6	54,454	1,41,483	40,053	28.3	0.7	27	98	123	...	123	
	Damro	13,619	33,963	13,495	33.6	0.9	18,079	33,634	13,604	37.7	0.9	31	35	46	...	46	
	Other Canals	12,011	29,648	12,658	43.4	1.0	10,809	29,472	12,063	40.9	1.1	23	9	32	...	32	
Total		91,415	2,30,558	81,764	37.6	0.9	91,455	2,36,390	84,857	35.9	0.9	110	156	266	...	266	
Hyderabad Canals District.	Gharo Mahmud...	80,755	1,67,123	44,838	26.7	0.6	85,826	1,72,389	59,296	34.4	0.7	30	194	224	...	224	
	Kari Shumali	37,569	75,918	19,468	25.9	0.5	40,716	80,310	19,964	24.8	0.5	37	129	164	...	164	
	Nasir	33,001	73,681	21,164	28.7	0.6	32,299	72,153	27,593	38.3	0.8	25	102	127	...	127	
	Renwah	1,094	3,175	3,171	59.9	2.9	778	2,810	2,114	68.4	2.7	24	4	28	...	28	
	Other Canals	6,934	16,343	3,033	18.5	0.5	4,948	11,704	3,209	27.2	0.6	17	11	28	...	28	
	Total	159,164	3,35,925	91,669	28.2	0.6	164,562	3,38,675	1,12,176	33.1	0.7	133	440	573	...	573	
Fuleli Canals District.		Other Canals	22,783	55,004	26,062	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.			Per-centage of Expend-iture on Re-venue.	Cost of Main-tenance per acre.	1913-1914.			Per-centage of Expend-iture on Re-venue.	Cost of Main-tenance per acre.	LENGTH IN MILES.					
	Cultiva-tion.	Canal Revenue.	Main-te-nance and Revenue Collec-tion.			Cultiva-tion.	Canal Revenue.	Main-te-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.																
IRRIGATION AND NAVIGATION—concluded.																
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.																
Canals in Operation—concluded.																
Karachi Canals District.	Kalri ... ..	20,045	33,014	24,013	72.7	1.2	21,097	26,213	19,635	75.1	0.9	26	66	92	...	92
	Baghar ... ..	34,270	53,976	39,189	73.6	1.1	36,998	54,910	33,267	60.6	0.9	88	67	155	...	155
	Indus Canals Right Bank ... ..	28,265	37,16	19,449	52.9	0.7	32,736	44,660	18,862	42.2	0.6	103	8	111	...	111
	Pinyari ... ..	91,093	1,85,439	1,00,303	54.1	1.1	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 Dis- trict.	Kashmor Bund ... ..	4,395	10,731	2,24,388	2,091.0	51.1	2,066	6,900	2,23,624	3,211.9	75.4	...	...	...	91	91
Shikarpur Canals Dis- trict.	Sukkur-Begari Bund ... ..	7,903	21,477	2,41,914	1,126.4	30.6	96	345	1,32,564	38,424.4	1,350.9	...	...	...	60	60
	Kasimpur Bund ... ..	1,305	4,157	3,747	90.1	2.9	9,015	23,749	2,458	10.3	0.3	...	...	...	11	11
	Bunds Rohri 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 Dis- trict.	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	4,384	1,02,193.3	...	...	...	...	6	6
Total ... ..	3,548	12,365	31,323	253.3	8.8	2,697	9,727	28,955	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 Build- ings 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	8,354	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	77,062	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 Dis- trict ... ..	397,662	8,38,242	5,83,341	69.8	1.5	509,515	10,29,224	6,44,940	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	681
	Ghar Canals Dis- trict ... ..	326,530	11,78,909	3,06,395	26.0	0.9	332,284	12,63,841	8,00,539	23.8	0.9	140	296	436	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 Dis- trict ... ..	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 Build- ings 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	1,398	1,939	3,327	508	3,335
Indus Left Bank Division.	Jamrao Canal Dis- trict ... ..	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 Dis- trict ... ..	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	1119	284	1304	583
	Nasrat Canals Dis- trict ... ..	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	966
	Hyderabad Canals District ... ..	271,809	5,87,825	1,62,290	27.6	0.6	281,095	5,99,456	1,81,883	30.3	0.6	324	1650	914	8	922
	Fuleli Canals Dis- trict ... ..	417,444	8,99,439	4,03,762	44.9	0.9	424,924	8,46,716	4,11,223	48.6	1.0	198	1,056	1,254	44	1,298
Total ... ..	1,438,853	35,51,792	14,40,371	40.5	1.0	1,488,906	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.

1 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 221 miles difference found in rechainage of Distributaries and (3) Increase of 4 miles found in rechainage of Mehrab and Nanlakh branches.

Increase of 1 mile in Bunds over the previous year is due to Construction of Tirohi 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
<b>MAJOR WORKS.</b>									
<b>PRODUCTIVE WORKS.</b>									
<b>IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.</b>									
<i>Canals in Operation.</i>									
Begári Canals District.			Acres.	Rs.	Rs.	Rs.	Rk.	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 Canals District.			463	1,042	884	88	796	32	
Jámráo 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	8,807	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	
<b>MINOR WORKS.</b>									
<b>IRRIGATION AND NAVIGATION.</b>									
<b>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</b>									
<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	
Karáchi 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 ...			3,187	7,160	13,847	1,386	12,461	499	

\* 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
<b>MINOR WORKS—continued.</b>									
<b>IRRIGATION AND NAVIGATION—concluded.</b>									
<b>WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.</b>									
<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.	Canals	Nára ...	1	...	9	1	8	1	
		Manchar ...	...	...	...	...	...	...	
		Aral ...	...	...	...	...	...	...	
		New Feeder, Western	...	...	...	...	...	...	
		Nára ...	...	...	...	...	...	...	
		Pritchard Canal ...	...	...	...	...	...	...	
		Wahur ...	...	...	...	...	...	...	
		Márví ...	...	...	...	...	...	...	
		Dadu 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 District.	Canals	Gharo Mahmudo ...	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	353	3,175	127	
Fuleli District.	Canals	Other Canals ...	...	...	...	...	...	...	
Karachi District.	Canals	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	6,369	636	5,733	230	
Total, Minor Works, Revenue Accounts only ...			4,014	6,431	11,794	1,179	10,615	426	

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.	
	Táluka.	Village.	Area.	Assessment.						
	1	2	3	4						5
MINOR WORKS—concluded.										
AGRICULTURAL WORKS.										
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.										
Begári Canals District.	Kashmor Bund	...	22	7	11	1	10	...		
Shikárpur Canals District.	Bunds in Rohri	...	...	...	...	...	...	...		
	Sukkur-Begári Bund	...	2	...	7	1	6	...		
	Kásimpur Bund	...	...	...	...	...	...	...		
Total			2	...	7	1	6	...		
Ghár Canals District.	Ghár Bunds	...	1	...	6	1	5	...		
Western Nára District.	Nára Bunds	...	...	...	...	...	...	...		
	Bunds, north of Kotri	...	...	...	...	...	...	...		
	Total			...	...	...	...	...		
Karáchi 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	583	59	524	20		
Too numerous to mention.										
Sindus Right Bank Division.	Begári Canals District	...	2,020	975	3,258	326	2,640	105		
	Shikarpur Canals District	...	1,087	1,309	2,672	267	2,405	96		
	Ghár Canals District	...	44	40	779	79	700	28		
	Western Nára District	...	44	52	116	12	104	5		
	Karáchi Canals District	...	2,874	5,831	7,956	795	7,161	287		
	Total			6,069	8,207	14,781	1,479	13,010	521	
	Total, Sindus Right Bank Division			6,069	8,207	14,781	1,479	13,010	521	
Sindus Left Bank Division.	Jámrao Canal District	...	24,117	27,311	2,08,312	20,831	1,87,481	7,499		
	Eastern Nára 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		
	Fuleh 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		

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T A B L E    V I I I .

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TABLE

## Abstract of Crop Return of Government,

1909-1910.				1910-1911.			1911-1912.		
Canals, Districts and Crops.									
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif.									
Rice...	...	81,307	81,307	...	87,436	87,436	...	46,762	46,762
Jowari ...	36,706	132,406	169,112	34,552	131,058	165,610	22,482	68,275	90,757
Bajri ...	10,782	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
Rabi.									
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.	61	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
Kharif.									
Rice...	...	58,354	58,354	...	57,802	57,802	...	40,390	40,390
Jowari ...	37,863	35,990	73,853	43,302	53,768	97,070	35,310	37,549	72,859
Bajri ...	6,469	6,913	13,382	4,289	5,822	10,111	4,812	3,709	8,521
Cotton ...	82	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
Rabi.									
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
Kharif.									
Rice...	8	233,657	233,665	...	232,469	232,469	...	212,508	212,508
Jowari ...	12,187	27,639	39,826	14,013	43,344	57,357	15,725	31,485	47,208
Bajri ...	706	833	1,539	596	2,658	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	7,897
Total ...	14,926	267,019	281,945	16,886	284,472	301,358	19,779	252,062	271,841
Rabi.									
Wheat ...	1,270	40,921	42,191	1,195	46,586	47,781	1,385	39,174	40,559
Barley ...	8	59	67	6	93	99	5	139	144
Oil-seeds ...	289	30,874	31,163	454	35,765	36,219	759	29,322	30,081
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	146,992	149,540
Grand Total.	16,797	457,342	474,139	18,774	477,069	495,843	22,327	399,054	421,351
Kharif.									
Rice...	...	163,193	163,193	152	160,407	160,580	...	160,671	160,671
Jowari ...	35,414	15,704	51,118	41,658	33,150	74,808	24,797	20,476	45,273
Bajri ...	11,704	3,261	14,965	7,573	2,113	9,686	10,965	2,114	13,079
Cotton ...	149	27	176	340	5	351	1,204	110	1,314
Other Crops.	1,410	2,653	4,063	1,803	3,377	4,980	1,377	3,867	5,244
Total ...	48,677	184,938	233,515	51,362	199,052	250,414	42,343	187,238	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.	
										<i>Kharif.</i>
...	11,605	11,605	...	32,187	32,187	...	100	100	...	Rice ...
22,520	103,617	126,137	25,122	160,002	185,424	14	86	100	...	Jowari ...
16,134	92,088	108,222	16,774	74,771	91,545	18	82	100	...	Bajri ...
43	86	129	16	595	611	3	97	100	...	Cotton ...
1,220	44,496	45,716	1,623	50,928	52,550	3	97	100	...	Other Crops ...
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>
...	19,491	19,491	2	27,737	27,739	...	100	100	...	Rice ...
40,920	64,425	105,354	30,461	61,662	92,123	33	67	100	...	Jowari ...
6,650	10,644	17,294	8,468	9,320	17,788	48	52	100	...	Bajri ...
329	668	997	275	755	1,030	27	73	100	...	Cotton ...
1,477	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	28	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	88,354	88,650	...	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- cund.	<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	2,467	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	326,581	385,399	65,816	372,162	437,978	49,477	348,665	398,142
	<i>Kharif.</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
Karáchi Canals.	Bajri ...	21,179	5,257	26,436	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
	<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
Indus Right- Bank Division.	Grand Total.	24,674	231,623	256,297	20,064	254,148	274,212	10,202	246,301	256,503
	<i>Kharif.</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	261,358	396,166	102,627	158,223	260,850
	Bajri ...	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	1,135,452	1,321,330	151,190	943,679	1,094,869
	<i>Rabi.</i>									
	Wheat ...	9,008	188,147	192,155	13,791	220,438	234,229	7,436	140,833	148,269
Eastern Nára...	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	134,198	137,049	1,659	103,960	105,619
	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
	<i>Kharif.</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
	Bajri ...	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
Eastern Nára...	Total ...	31,806	138,120	169,926	29,330	149,865	179,195	26,487	164,169	190,656
	<i>Rabi.</i>									
	Wheat ...	2,082	29,986	32,068	2,019	41,777	43,746	3,362	34,069	37,431
	Barley ...	36	270	306	59	255	312	56	333	389
	Oil-seeds ...	446	7,137	7,583	378	15,734	16,062	764	7,304	8,168
	Other Crops..	474	9,090	9,564	551	8,528	9,079	547	9,001	9,548
	Total ...	3,038	46,453	49,521	2,957	66,244	69,199	4,729	50,797	55,526
	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.	
										<i>Rabi.</i>
8,629	41,988	50,617	12,149	37,276	49,425	25	75	100	...	Wheat... ..
494	1,529	2,023	905	1,914	2,819	32	68	100	...	Barley... ..
1,577	46,661	48,238	1,802	48,172	50,054	4	96	100	...	Oil-seeds ...
571	72,296	72,867	557	62,356	62,913	1	99	100	...	Other Crops ...
11,271	162,474	173,745	15,493	149,718	165,211	9	91	100	40	Total
56,302	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	228,721	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	5,692	...	9,801	9,801	...	100	100	...	Barley... ..
...	10,073	10,073	...	17,859	17,869	...	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	160,603	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	13,189	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	218	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>Kharij.</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
	Báji ...	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 ...	855	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
Hyderabad Canals.	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
	<i>Kharij.</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
	Báji ...	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
Fuleli Canals...	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 ...	168	6,772	6,940	171	7,677	7,848	302	3,139	3,471
	Total ...	1,298	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
	<i>Kharij.</i>									
	Rice ...	...	234,108	234,108	100	237,831	237,931	40	250,400	250,440
Fuleli Canals...	Jowári ...	1,930	501	2,431	2,595	1,001	3,596	2,387	1,158	3,545
	Báji ...	88,609	8,109	96,718	78,180	6,915	85,095	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	58,225	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	2,647	2,743	84	1,426	1,510	146	2,054	2,200
	Oil-seeds ...	552	19,445	19,997	156	16,856	17,012	351	37,084	37,435
	Other Crops ...	1,834	14,446	16,310	1,943	16,306	14,249	776	20,239	21,016
Fuleli Canals...	Total ...	4,558	48,890	53,443	2,640	44,358	46,998	1,826	69,356	71,182
	Grand Total.	118,522	295,041	413,563	113,192	294,138	407,330	90,051	338,365	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	...	Kharif.
62,876	38,667	101,543	70,798	40,481	111,279	64	36	100	...	
58,988	20,393	85,383	53,008	19,004	72,012	74	26	100	...	
11,803	27,055	38,858	15,399	25,642	41,041	38	62	100	...	
4,114	8,550	12,664	6,274	9,579	15,853	40	60	100	...	
137,783	115,195	252,978	145,494	108,431	253,925	57	43	100	84	Total.
										Rabi.
1,215	15,954	17,169	463	17,962	18,425	8	97	100	...	
88	995	1,083	13	915	957	1	99	100	...	
51	19,120	19,171	11	24,560	24,571	...	100	100	...	
61	3,970	4,031	...	4,030	4,030	...	100	100	...	
1,415	40,039	41,454	436	47,497	47,983	1	99	100	16	Total.
139,198	155,234	294,432	145,980	155,928	301,908	48	52	100	100	Grand Total.
										Kharif.
3	6,425	6,428	6	4,842	4,848	...	100	100	...	
8,427	984	9,411	8,154	1,092	9,246	88	12	100	...	
154,136	17,518	171,654	141,058	14,831	155,889	90	10	100	...	
64,882	8,333	73,265	71,510	9,042	80,552	89	11	100	...	
6,066	506	6,572	7,783	430	8,273	94	6	100	...	
233,514	33,816	267,330	228,511	30,297	258,808	88	12	100	91	Total.
										Rabi.
1,132	5,929	7,061	557	5,810	6,367	9	91	100	...	
3	13	16	4	4	8	50	50	100	...	
229	6,121	6,350	335	8,605	8,990	4	96	100	...	
473	9,020	9,493	230	10,582	10,812	2	98	100	...	
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.
										Kharif.
101	275,272	275,373	176	263,902	264,078	...	100	100	...	
2,845	839	3,684	3,673	783	4,456	82	18	100	...	
78,055	6,851	84,906	77,396	6,223	83,619	93	7	100	...	
16,655	736	17,391	22,256	1,773	24,029	93	7	100	...	
7,303	1,514	8,817	8,707	1,764	10,471	83	17	100	...	
104,959	285,212	390,171	112,208	274,445	386,653	29	71	100	90	Total.
										Rabi.
1,934	8,191	10,125	311	7,838	8,149	4	96	100	...	
69	2,172	2,241	33	718	751	4	96	100	...	
199	15,380	15,579	645	16,625	17,270	4	96	100	...	
445	16,256	16,701	4,567	13,291	17,858	26	74	100	...	
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.

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.
Jámrao Canal.	<i>Kharif.</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
	Báji ...	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	32,040	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
Indus Left Bank Division.	<i>Kharif.</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
	Báji ...	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	640	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
Total for Sind.	<i>Kharif.</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
	Báji ...	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	300,335
	Total ...	34,010	885,912	919,952	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.

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.	
										<i>Kharif.</i>
...	177	177	...	...	...	...	...	...	...	Rice ...
1,367	4,962	6,329	1,045	2,924	3,969	26	74	100	...	Jowári ...
19,037	29,439	48,476	19,348	25,294	44,642	43	57	100	...	Bājri ...
23,910	84,823	113,738	32,807	91,450	124,657	26	74	100	...	Cotton ...
854	3,506	4,390	1,103	3,551	4,659	24	76	100	...	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	...	Bājri ...
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	203,965	589,107	357,891	167,940	525,831	68	32	100	...	Bājri ...
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	759,787	1,825,443	2,585,230	29	71	100	75	Total.
										<i>Rabi.</i>
28,581	285,181	313,762	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.

Collectorates and Districts.			April 1913.												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.	In. ct.	
<b>Indus Right Bank Division.</b>																		
SINDH IRON- RIVER.	Begari Canals District.	Kashmor	...	...	...	0 38	0 89	...	...	...	...	0 17	0 2	0 20	0 1	1 67	0 80	
		Kandkot	...	...	...	0 26	0 42	1 47	...	...	...	0 40	...	0 42	...	5 1	3 18	
		Jacobabad	...	...	...	0 23	0 48	1 76	...	...	...	...	0 30	0 3	0 93	...	4 98	1 69
		Thul	...	...	...	0 23	2 0	1 76	...	...	...	...	0 85	...	0 76	...	5 70	0 69
		Shahdádpur	...	...	...	0 8	3 33	0 47	...	...	...	...	1 68	0 4	0 79	...	6 37	2 28
		Average	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 91	1 69
Mean average of 10 years ...															3 10			
SUKKUR COL- LECTOR- ATE.	Shikarpur Canals District.	Ubanro	...	...	...	0 38	0 42	3 27	...	...	...	0 18	...	0 11	...	4 37	2 11	
		Mirpur Mathelo	...	...	...	1 12	0 33	3 35	...	...	0 2	...	...	...	0 12	...	5 12	3 6
		Ghotki	...	...	...	...	0 20	3 35	...	...	...	...	0 46	...	0 16	...	4 21	4 69
		Rohri	...	...	...	...	1 48	0 87	...	...	...	...	1 23	...	0 56	...	4 19	5 39
		Sukkar	...	...	...	...	0 69	0 44	...	...	...	...	1 17	...	0 50	...	3 23	4 63
		Shikarpur	...	...	...	...	0 27	1 64	3 31	...	...	0 35	...	1 20	...	0 87	...	7 54
Garhi Yasin	...	...	...	...	0 45	1 4	2 45	...	...	...	...	...	0 88	...	5 94	0 32		
Average															4 84		3 6	
Mean average of 10 years ...															3 1			
LAHORE COLLECTORATE.	Ghar Canals District.	Ratodero	...	...	...	0 32	0 83	1 83	...	...	...	1 27	0 3	1 10	...	5 38	2 0	
		Larkana	...	...	...	...	1 41	1 52	...	...	...	...	1 34	...	0 76	...	5 39	2 41
		Kambar	...	...	...	...	0 48	1 71	0 80	...	...	...	...	...	0 70	0 3	5 25	1 76
		Bakrini	...	...	...	...	2 34	0 53	...	...	...	...	1 49	...	0 04	0 12	5 2	2 23
		Warran	...	...	...	...	0 1	1 67	1 7	...	...	...	...	...	0 56	...	4 70	1 52
		Average	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5 15	2 4
Mean average of 10 years ...															3 13			
KARACHI COLLECTORATE.	Western Nara District.	Mehar	...	...	...	0 6	2 14	0 88	...	...	...	1 53	...	0 56	0 2	5 19	2 31	
		Khairpur Nathanshah	...	...	...	...	2 89	1 42	...	...	...	...	1 89	...	0 71	0 2	6 94	1 84
		Dadu	...	...	...	...	6 40	1 37	...	...	...	...	1 60	...	0 71	...	10 25	2 81
		Johi	...	...	...	...	4 61	4 5	...	...	...	...	1 40	...	0 86	...	11 45	2 94
		Sohwan	...	...	...	...	7 2	1 28	0 16	...	...	...	1 37	...	0 70	0 8	10 70	4 7
		Mankhand	...	...	...	...	8 51	2 69	1 3	...	...	...	0 84	...	0 80	...	13 87	5 96
Kotri	...	...	...	...	13 10	2 60	3 62	...	...									



*Memorandum showing the amounts of loss to Canals on account of difference between the assessments of water-rates on Jágir 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.
<b>MAJOR WORKS.</b>				
	Rs.	Rs.	Rs.	
<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	
<b>MINOR WORKS AND NAVIGATION.</b>				
<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, 20th 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
Márak 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.	
				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	
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, <sup>28th</sup><sub>29th</sub> 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	...	...	5,29,257	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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S T A T E M E N T .

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## Statement showing cultivated Area and Assessment of Government, Jdgghir 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.	Ar
1911-1912 ...	1,013,852	193,575	1,207,427	1,037,991	204,151	1,292,142	2,101,843
1912-1913 ...	1,152,336	251,293	1,403,629	1,131,915	188,798	1,370,713	2,334,251
1913-1914 ...	1,173,714	333,182	1,506,896	1,184,254	178,601	1,332,855	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.	Assess
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 ..	45,860	33,942	82,811	.....	.....	.....
1913-1914 ...	60,329	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.

JAGHIR 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	209,160
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.

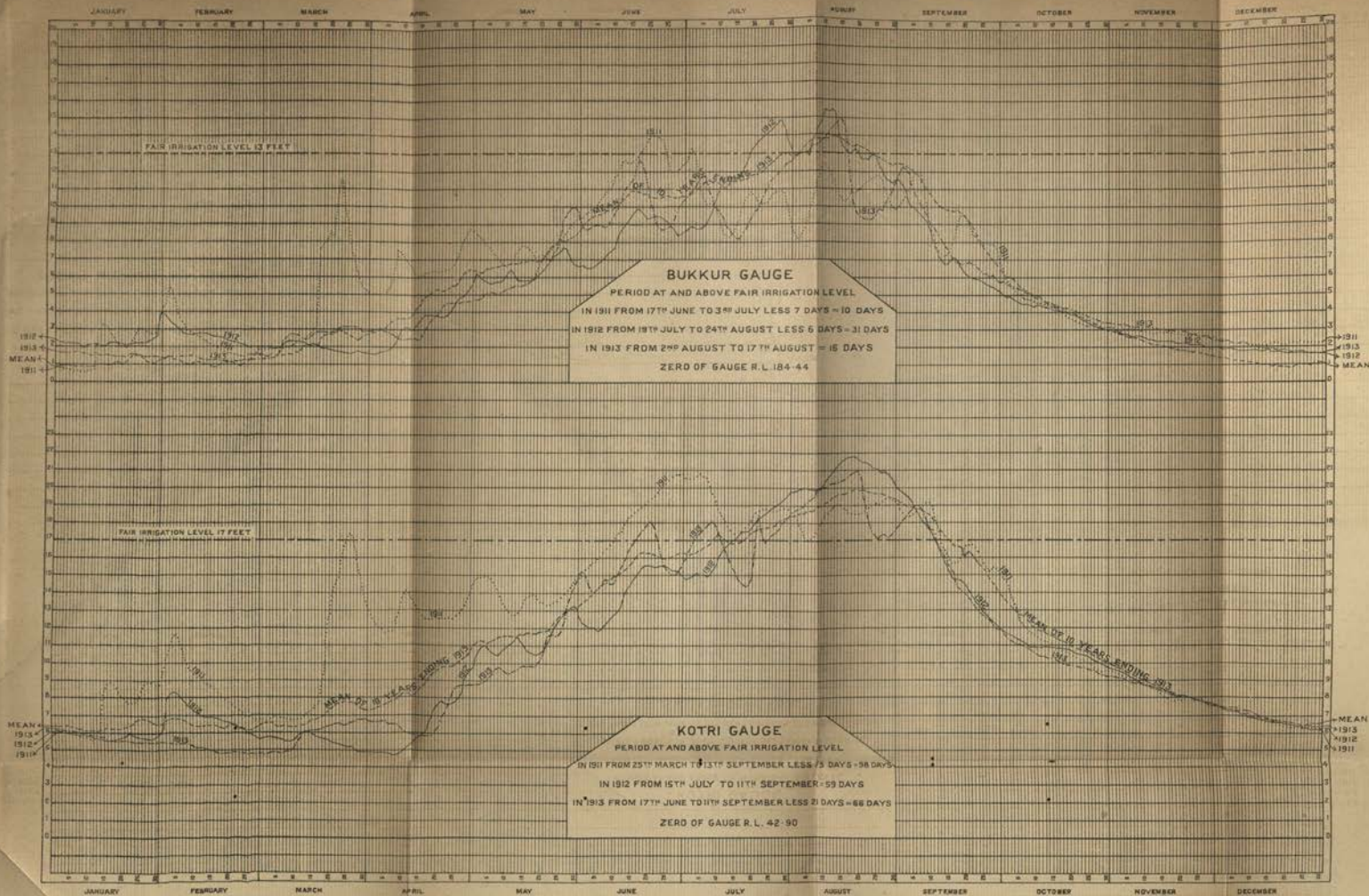
2. The total area irrigated for the year under review and for the five previous years is as follows :—

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

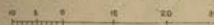
# HYDROGRAPH OF THE RIVER INDUS AT BUKKUR AND KOTRI





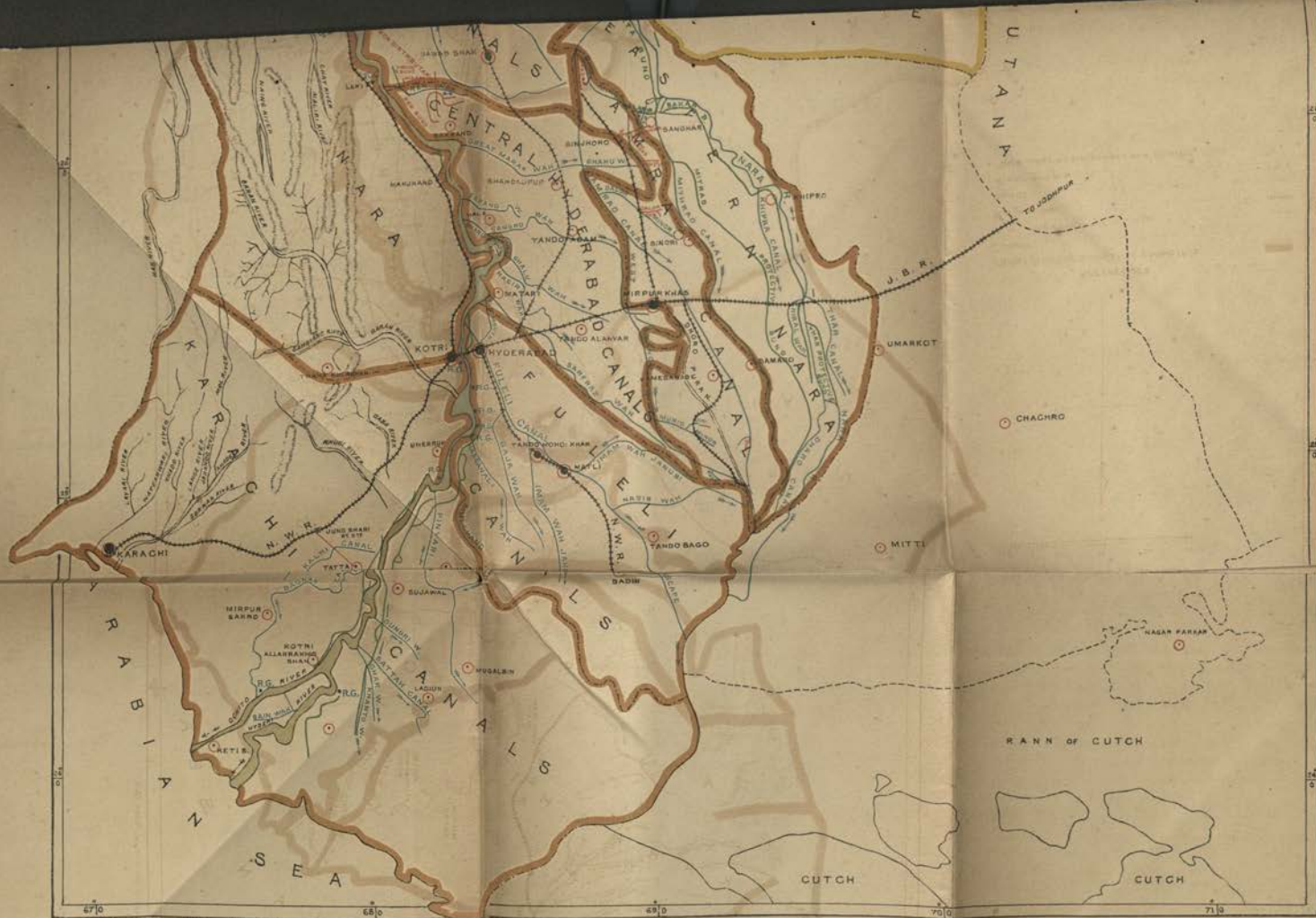
SIND

Scale 16 Miles to an Inch.



## REFERENCES

- Canal District boundaries shown thus \_\_\_\_\_
- Canals \_\_\_\_\_
- "    New branches \_\_\_\_\_
- Railway lines \_\_\_\_\_
- Sunds \_\_\_\_\_
- River gauges \_\_\_\_\_ \* R.G.
- Place where rain gauges are located \_\_\_\_\_



Lyons & Co. Photocopy Office, Poona, 1914.

*R. E. Chopp*

MAJOR R.E.  
SUPERINTENDING ENGINEER.  
INDUS LEFT BANK DIVISION.  
1. 9. 14.





No. W. I.—5283.

PUBLIC WORKS DEPARTMENT.

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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



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. 3,147,274	Rs. 33,77,249	Rs. 1'07	Rs. 11,58,391	Rs. 0'37	Rs. 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 25.83 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



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on 01 February, 2020



