
ANNUAL IRRIGATION REVENUE REPORT,

SIND,

1913-1914.

S 2762—25,000—12-14—(E4)—st.

Std—Sectt 37

Received from the Assistant Secretary to Government, *Public Works*
Department, Secretariat, Bombay, 1 copy of the publication noted below:—

Annual Irrigation Revenue Reps
Sind. 1913-14.

Signature
and
Designation of Officer. } _____

Dated the _____ 191 :

It is requested that this receipt may be signed and returned as soon as possible to the Assistant Secretary to Government, *Public Works* Department.

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No. 7315 of 1914.

PUBLIC WORKS DEPARTMENT.
SUPERINTENDING ENGINEER'S OFFICE,
INDUS RIGHT BANK DIVISION.

Camp Gaheja, 15th December 1914.

From

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

To

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

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

Sir,

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

2. Crop Return VIII-A will follow.

I have the honour to be,

Sir,

Your most obedient servant,

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

Accompaniments :—

Annual Irrigation Revenue Report.

Tables I to IX.

Through

THE SUPERINTENDING ENGINEER, INDUS LEFT BANK DIVISION.

THE CHIEF ENGINEER IN SIND.

THE COMMISSIONER IN SIND.

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

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

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

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

				Average for 3 years in- cluding 1912.	Average of 10 years in- cluding 1912.	1912.	1913.
				Days.	Days.	Days.	Days.
Gauges—							
Bukkur, 10 feet and over	...		...	78	90	60	60
Do. 13 do.	...		...	21	43	31	16
Kotri, 14 do.	...		...	123	115	100	114
Do. 17 do.	...		...	86	66	59	66
				Average for 3 years in- cluding 1912.		1912.	1913.
				Acres.	Acres.	Acres.	Acres.
Irrigation—							
Khárif	...	...	...	1,223,729	1,254,984	1,290,971	1,290,971
Rábi	...	...	...	302,050	285,097	367,397	367,397
			Total	1,525,779	1,540,081	1,658,368	1,658,368
				Rs.	Rs.	Rs.	Rs.
Gross Irrigation Revenue realized	...	...	...	41,91,237	41,55,982	43,97,242	43,97,242
Working expenses	...	...	...	25,24,710	25,73,725	28,76,396	28,76,396
Net Revenue neglecting simple interest	...	...	...	16,66,527	15,82,257	15,20,846	15,20,846

Area of cultivation, Government, Jagir and Foreign.

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

STATEMENT A.

Year and class of crops.	MAJOR WORKS.	MINOR WORKS AND NAVIGATION.				Grand Total.
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.	
1	2	3	4	5	6	7
Average of 3 years in- cluding 1912-1913.	{ Kharif... 336,057	Acres. 304,389	Acres. 565,471	Acres. 17,812	Acres. 887,672	Acres. 1,223,729
	{ Rabi ... 122,881	35,427	134,110	9,633	179,170	302,051
Total	458,938	339,816	699,581	27,445	1,066,842	1,525,780
1912-1913	{ Kharif... 333,456	312,533	569,906	19,089	921,528	1,254,984
	{ Rabi ... 118,777	33,123	123,771	9,421	166,320	285,097
Total	452,233	345,661	713,677	28,510	1,087,848	1,540,081

STATEMENT A.—continued.

Year and class of crops.	MAJOR WORKS.	MINOR WORKS AND NAVIGATION.				Grand Total.	
	Productive Works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural Works.	Total.		
1	2	3	4	5	6	7	
1913-1914	Acres. 408,236	Acres. 302,479	Acres. 569,807	Acres. 15,449	Acres. 887,735	Acres. 1,290,971	
... { Kharif... Rabi ...	160,386	45,933	150,364	10,714	207,011	867,397	
Total ...	568,622	348,412	720,171	26,163	1,094,746	1,658,368	
Increase or decrease as compared with average.	{ Kharif... Rabi ...	67,179	-1,910	4,336	-2,363	63	67,242
Total ...	37,505	10,506	16,254	1,081	27,841	65,846	
Total ...	104,684	8,596	20,690	-1,282	27,904	132,588	
Increase or decrease as compared with 1912-1913.	{ Kharif... Rabi ...	69,780	-10,054	-20,099	-3,640	-33,793	35,967
Total ...	41,609	12,805	26,693	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. 40,657	Rs. 27,55,961	Rs. 35,18,092	
... { Kharif... Rabi ...	3,25,879	1,93,957	4,42,123	26,399	6,62,479	9,88,358	
Total ...	10,88,010	13,18,092	20,33,392	66,956	34,18,440	45,06,450	
1912-1913	{ Kharif... Rabi ...	6,83,960	11,15,354	16,34,889	44,063	27,94,306	31,78,266
Total ...	2,97,402	1,91,631	3,97,287	26,185	6,15,103	9,12,505	
Total ...	9,81,362	13,06,985	20,32,176	70,248	34,09,409	43,90,771	
1913-1914	{ Kharif... Rabi ...	8,97,436	11,67,685	15,15,173	32,727	27,15,585	36,13,021
Total ...	3,54,930	2,38,012	4,57,400	31,730	7,27,142	10,82,072	
Total ...	12,52,366	14,05,697	19,72,573	64,457	34,42,727	46,95,093	
Increase or decrease as compared with average.	{ Kharif... Rabi ...	1,35,305	43,550	-76,096	-7,830	-40,376	94,929
Total ...	29,051	44,055	15,277	5,331	64,603	93,714	
Total ...	1,64,356	87,605	-60,819	-2,499	24,257	1,88,643	
Increase or decrease as compared with 1912-1913.	{ Kharif... Rabi ...	2,13,476	52,331	-1,19,716	-11,336	-78,721	1,34,755
Total ...	57,523	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. 41,91,237	Rs. 2,92,236
1912-1913	40,19,503	72,311	64,168	41,55,982	1,52,159
1913-1914	42,59,611	72,942	64,689	43,97,242	1,28,366
Increase or decrease as compared with the average	2,06,567	-2,200	1,638	2,06,005	-1,63,870
Increase or decrease as compared with 1912 1913	2,40,108	631	521	2,41,260	-23,793

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

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

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

	1918-14.	1912-13.	Difference.
	Rs.	Rs.	Rs.
Deficiency of water	1,12,511	2,25,033	—1,12,522
Breaches in canals	1,372	.....	1,372
Blight or Mahalo	594	27	567
Wireworms and insects	28,441	11,610	16,831
Frost	5,639	10	5,629
Locusts	705	3,778	—3,073
Rats	405	7,924	—7,519
Kalar soil	9,519	8,458	1,061
Other causes	51,403	58,468	—7,065
Inundation	1,96,160	66,745	1,29,415
Erosion	255	171	84
Adverse winds	27,764	787	26,977
Total ...	4,34,828	3,83,011	51,817

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

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

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

Loss to canals, Foreign and Jâghir lands.

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

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

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

10. Of the total charges shown in the preceding paragraph, Rs. 15,17,787 were spent on canals and Rs. 6,04,716 on river embankments.

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

Major Works	{ Capital ... 25,317
	{ Revenue ... 83,654
Works for which Capital and Revenue Accounts are kept	{ Capital ... 4,973
	{ Revenue ... 3,621
Works for which only Revenue Accounts are kept	1,42,057
Agricultural Works	5,03,946
Total ...	7,68,638

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

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

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

Financial Results.

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

STATEMENT D.

Class of Works.	Gross Revenue.	Working expenses.	Net Revenue.	Simple interest.	Net profit, 1913-1914.	Net profit, 1912-1913.	Increase.	Decrease.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	11,95,256	5,67,629	6,27,627	2,36,672	3,70,955	90,339	2,50,616	...
Minor Works for which Capital and Revenue Accounts are kept.	12,35,436	3,13,527	9,21,909	...	9,71,909	8,93,701	73,208	...
Total ...	24,30,692	9,01,156	15,79,536	2,36,672	13,42,864	9,89,040	3,53,324	...
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 ...	19,16,550	10,75,240	-58,690	...	-58,690	3,50,332	...	-4,09,022
1913-1914	43,07,242	28,76,396	15,20,846	2,36,672	12,84,174	13,39,372	-55,193	
1912-1913	41,55,082	25,73,725	15,82,257	2,42,885	13,39,372	.....	.....
Increase or decrease	2,41,260	3,02,671	-61,411	-6,213	-55,193	.....	-55,193	

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.

Length of Canals and Bunds.

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.				
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif. { Rice ...	134	677,009	677,143	690,499	644,664	-13,356	32,479
{ Jowári ...	114,981	282,610	397,591	345,612	380,421	51,779	17,170
{ Bájri ...	42,007	91,106	133,113	112,693	153,156	20,420	-20,073
{ Cotton ...	662	1,419	2,081	1,751	1,835	330	243
{ Other crops ...	8,519	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	9,646	8,032	3,401	4,915
{ Oil-seeds ...	13,139	158,935	172,074	114,460	100,513	57,614	71,561
{ Other crops ...	1,389	260,958	262,377	275,772	233,942	-16,395	28,435
Total ...	30,214	616,179	646,353	594,472	535,071	51,921	111,323
Grand Total ...	196,817	1,740,548	1,937,325	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

Percentage of kharif and rabi.

the Begari Canals District and under cotton 1,050 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 3·1, respectively, as compared with 37 and 2·20, 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. There was a slight improvement in the duties on the Sattah and the Baghar but all the duties were low owing to the cultivation being mostly rice. The deltas on the Sattah and the Pinyari show a slight improvement and that on Baghar a marked improvement, the delta on the last being reduced by one-half. The delta in this canal is still high, and this is due to the large quantity of water which runs to waste into the sea.

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

Incidence of working expenses on the assessed revenue.

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

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

Value of each kind of crop irrigated.

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

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

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

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

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

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

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

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

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

The supply in the Mahiwah was fairly good throughout the season. Owing to the early fall of the river the standing crops would have suffered much, but they were saved to a great extent by the rainfall in August and rotation in the supply to branches. The rotations also enabled some additional area to be cultivated in rabi. The Gudu Dhand which feeds the Mahiwah silted up to a certain extent during the abkalan. 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 67,214 acres and 51,921 acres under kharif and rabi, respectively, and a decrease of 119,165 acres under total cultivation as compared with the year under report.

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

I.—MAJOR WORKS.

PRODUCTIVE WORKS.

A.—Desert Canal.

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

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

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

Work Establishment.

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 18,982 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 20/2 of the Násir branch ex-Unharwah, (2) fixing taki bricks at each taki in certain lengths of Unharwah and Branches, (3) providing, fixing and painting iron furlong posts along Hazaro and Khairowahs, (4) providing stone bench marks at every mile in connection with the fixing of taki bricks along canals in Unharwah sub-division.

Maintenance and repairs.

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.

Irrigation.

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.

Financial results.

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, bajri 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.

General remarks.

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.

Capital.

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.

Extensions and Improvements.

Maintenance and repairs.

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 123,967 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.

Irrigation.

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

Financial Results.

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 —1.29 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. 81,333 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, bajri 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.

Extensions and Improvements.

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.

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.

Financial results.

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, bajri 11,520 acres, rice 6,798, wheat 13,049 acres and oil-seeds 1,404 acres. The estimated value of the outturn was Rs. 10,65,955 or Rs. 18 per acre.

General remarks.

II.—MINOR WORKS AND NAVIGATION.

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

1.—*Sukkur Canal.*

Capital

27. No expenditure was incurred under this head during the year.

Extensions and Improvements.

No expenditure was incurred under this head during the year.

The main canal and its branches were maintained in good order at a cost of Rs. 42,977 including work establishment as compared with Rs. 44,936 in the previous year.

Maintenance and repairs.

The total cultivation was 106,148 acres, of which 64,226 acres were under kharif and 41,922 acres under rabi. The total cultivated area compared with the average of the previous triennium of 98,627 acres and of the previous year of 77,509 acres was more by 7,521 and 28,639 acres, respectively. The increase in cultivation is in rabi and is due to the good working of the old head regulator which was opened on July 14th. It afforded a very good supply for the crop as it did not cease to flow until the 18th March 1914. The small decrease in kharif cultivation is attributed to poor inundation in kharif season.

Irrigation.

The gross revenue realized amounted to Rs. 2,62,180 compared with Rs. 1,91,827 of the last year and Rs. 2,37,070, the average of the previous triennium. Deducting working expenses Rs. 75,969 and share due to old irrigation Rs. 71,444, the net revenue during the year due to improvements was Rs. 1,14,767 giving a return of 8.05 per cent. on the capital outlay against 3.07 of the last year and 6.47 per cent. the average of the previous triennium. The net revenue due to improvement compared with average of previous triennium was more by Rs. 22,473. The increase in net revenue is partly due to the increase in cultivation and partly attributed to the enhanced rates according to the revised settlement.

Financial results.

The remissions granted during the year amounted to Rs. 3,379 against Rs. 39,064 in the previous year. The principal crops grown were rice 34,064, jowári 21,768, bajri 1,677, wheat 17,711 and oil-seeds 7,592 acres. The estimated value of the outturn was Rs. 21,41,431 or Rs. 20 per acre.

General Remarks.

2.—Ghar Canal.

28. A sum of Rs. 4,043 was spent under this head during the year on taking over and remodelling Kur Matal a zamin-dári karia *ex* Naurang Canal mile 7/4 right bank.

Capital.

The sum of Rs. 2,873 was expended under this head during the year on (1) additions and alterations to the office block attached to the Executive Engineer, Ghar Canals Bungalow at Lárkána, (2) renewing the roof of the stables attached to the Public Works Department Inspection Bungalow Class I at Lárkána, (3) providing fire buckets with stands for the office of the Executive Engineer, Ghar Canals at Lárkána, (4) widening and improving Mirwah No. 2 *ex* Chilo.

Extensions and Improvements.

The total expenditure during the year was Rs. 1,19,435 including work establishment against Rs. 1,11,832 as compared with that of the previous year. The increase is due to improvement to the Dhoro feeding the Ghar Dhand to replace the 1910 feeder on which Rs. 7,000 were spent.

Maintenance and repairs.

The total cultivation was 357,548 acres, of which 223,756 acres were under kharif and 133,792 acres were under rabi against 369,443 acres in the previous year and 355,657 acres, the average of the previous triennium. The figures of the year under report show a small increase in cultivation over those of the last triennium.

Irrigation.

The gross revenue amounted to Rs. 10,01,379 compared with Rs. 9,86,888 of the last year and Rs. 9,38,907, the average of the previous triennium. Deducting working expenses Rs. 2,26,985 and share due to old irrigation Rs. 1,16,671, the net revenue during the year due to improvements was Rs. 6,57,723 which represents a return of 113.90 per cent. on the capital outlay against 114.90 per cent. of the last year and 101.95 per cent., the average of the previous triennium. The net revenue due to improvement compared with average of the previous triennium was more by Rs. 74,128. The increase in net revenue is due to the enhanced rates according to the revised settlement.

Financial results.

The remissions granted during the year amounted to Rs. 12,740 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.

Maintenance and repairs. 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.

Irrigation. 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.

Financial results. 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.

General Remarks. 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.

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

(1) *Canals in the Shikarpur 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.

Extensions and Improvements. 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.

Maintenance and Repairs. The expenditure incurred under this head was Rs. 1,19,848 including work establishment against Rs. 1,16,481 in the previous year.

Irrigation. 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

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. 44,453 and with that of previous year of Rs. 3,83,917, an increase of Rs. 79,435. The increase is due to the same causes as given above under cultivation paragraph.

The remissions granted amounted to Rs. 5,419 against Rs. 36,307 last year. The principal crops grown were jowári, rice, bájri, wheat and oil-seeds. The estimated value of the outturn was Rs. 23,71,673.

(2) Canals in the Western Nára District.

31. The district comprises the following main canals, which take off direct from the river.

The Western Nára with its two feeders (the new feeder and the Pritchard Canal), the Marvi, the Wahur, the Phitta, the Chario Wahur with the Aral and the Dunster, the Dadu Canals and the canals north of Kotri.

The Muncher Lake is fed by the Aral, Dunster, Western Nára and rain water from the hills and again drained off for cultivation through the Aral and Dunster when the river falls.

A sum of Rs. 21,959 was spent under this head on (1) improvements to the Kudanwah ex the Western Nára mile 61/7, (2) improvements to Dhamrao Canal ex. the Western Nára, (3) improvements to Ganjrote Branch ex the Dhamrao Canal, (4) constructing regulators over the Ghariwah and Wadhuwah at mile 76/4 and 79 of the extension of the Western Nára Bunds, and the rest on minor works consisting of constructing new banks and raising and strengthening of existing banks of canals, additions and alterations to Inspection Bungalows and constructing sluices over zamindári and forest karias.

The total expenditure under this head including special repairs amounted to Rs. 2,48,969 and was incurred on special and ordinary repairs to buildings, clearance of canals, clearing the channel of the Akil Dhand and the Gharo from the river to feed the Western 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.

General Remarks.

3.—Canals in the Karáchi Canals District.

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

The expenditure incurred under this head was Rs. 81,718 and was spent on (1) constructing proposed Baghar head regulator, (2) extension of Falakchandán, (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.

Extensions and Improvements.

Maintenance and Repairs.

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.

Irrigation.

The total canal revenue realized was Rs. 3,17,038, and the maintenance and revenue charges amounted to Rs. 2,07,206, which amounts to 65.4 per cent. of the revenue and 9 per acre on the area irrigated excluding Dubari; the corresponding figure for the average of the three previous years being 33.3 and 9 rupees. The comparison of the revenue for the year under report with that of the previous triennium shows a decrease of Rs. 79,466 which, in spite of an increase in cultivation, is due to heavy remissions amounting to Rs. 1,66,403 due to floods caused by the heavy rains, the amount remitted on this account alone being as much as Rs. 1,63,677.

Financial Results.

The remissions amounted to Rs. 1,66,403 against Rs. 59,331 of last year and Rs. 87,646, the average of the previous triennium. The principal crops grown under this head were rice, bájri, jowári, barley and oil-seeds.

General Remarks.

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

33. The principal bunds in this Division on the right bank of the river are the Kashmor, 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 Nára Bund, raising and strengthening the Manjhand Bund from 0 to mile 3/0, raising and strengthening Nára Bund at mile 61 to 67/2, linking up Butho and Manjhand Bund and other works in the Western Nára District; raising and strengthening Baghar Uchito Bund from mile 0 to 30/6, Panah Baghar Bund miles 2/5 to 12/5, portions between miles 20/4 to 43 of the Mulchand Shahbunder Bund, and Mulchand Shahbunder Bund, Rajwah to Gungri miles 43-5 to 45-7 and 49 to 49-7 and 49-7 to 52; constructing Telegraph offices and Signaller's quarters at Pinyari Head Regulator, Kotalmo, Belo, Saidpur and Sattah in the Karáchi Canals District.

Extensions and Improvements.

The expenditure of maintenance and repairs and special repairs to river embankments including Establishment and Tools and Plant charges was Rs. 5,49,830 against Rs. 6,40,034 of last year.

The cultivation in 1913-14 on the canals ex-Kashmor Bund, on Bunds in the Shikárpur Canals, Karáchi Canals, Western Nara, and Ghár Canals Districts was 2,985, 10,769, 9,928, 3,936 and 1,170 acres respectively, and the revenue Rs. 6,700, 28,174, 16,152, 9,727 and 437 respectively. The average cultivation and revenue of the previous triennium on the bunds in the above district were 4,395 acres, Rs. 10,731; 9,585 acres, Rs. 27,023; 9139 acres, Rs. 15,512; 3,548 acres, Rs. 12,365; 778 acres, Rs. 2,822.

The most important works classed under special repairs were the completion of the unfinished 1912 Unharwah loop, constructing bund along the toe and along the front slope of Gauspur loop for wetting the loop, constructing pumping station at Gauspur and constructing Haibat loop from Ghora Ghat to Tori stop gate regulator in the Begari Canals District, constructing a new loop to Sukkur Begari Bund from miles 16/4 to 19, and from 4/6 to 7/4 (Garang loop) in the Shikárpur Canals District; constructing Thahimani loop from mile 33 to 77 of the Baghar Uchito Bund, constructing new Uplanki loop and constructing new loop at mile 46 to 49/1 of Mulchand Shahbunder Bund, Rajwah to Gungri in the Karáchi Canals District. A sum of Rs. 6,669 was spent on the Mathematical Instrument Depôt, on Establishment and Tools and Plant. A total sum of Rs. 2,35,677 was spent by the Chief Engineer, Indus River Commission, of which Rs. 23,740 was spent on making surveys on the Indus, Rs. 65,142 on Sukkur Barrage Committee, Rs. 1,018 on constructing a detached store room at Kotri, Rs. 26,495 on maintenance and repairs of which Rs. 25,789 were spent on maintenance of steamers and gauges and snagging the river Indus, and small amount Rs. 706 on maintenance of other works; Rs. 1,01,576 under regular Establishment and Rs. 12,706 under Tools and Plant.

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

Year.	Expenditure on maintenance of gardens during the year.	Receipts during the year.
	Rs.	Rs.
1910-1911	4,099	1,918
1911-1912	3,729	2,245
1912-1913	3,816	2,043
1913-1914	3,712	2,437

35. The total number of trees planted during the year in this Division was 1,21,029, of which 82,227 were babul, and the rest principally Talli and Nim. The number of trees alive at the end of the year was 4,85,313 including 3,06,341 babul. The number of young trees transferred from nurseries for plantation on canal banks was 1,88,811 including 69,400 babul.

36. The Division was in charge of the following officers in the year under report:—

Division.	Names of Officers.	Months.	Days.
Indus Right Bank Division.	Mr. F. St. J. Gebbie	12	...

The following officers were in charge of the executive districts :—

District.	Name of Executive Engineer.	Months.	Days.
Karáchi Canals District	Mr. H. B. Evington	10	15
	„ J. M. Mackay	1	16
Ghár Canals District	„ S. R. Perfect	8	23
	„ M. A. Mirza	3	8
Western Nára District	„ B. E. Vachha	12	...
Shikárpur Canals District	„ D. R. H. Browne	7	2
	„ E. M. Procs	4	28
Begári Canals District	„ R. B. MacLachlan	12	...

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

No. 5920 of 1914.

PUBLIC WORKS DEPARTMENT:
Karachi, 22nd December 1914.

From

F. ST. J. GEBBIE, Esq.,
Superintending Engineer,
Indus Left Bank Division ;

To

THE SECRETARY TO GOVERNMENT,
Public Works Department,
Bombay.

Sir,

I have the honour to submit the Irrigation Revenue Report for Sind for the year 1913-14.

I have the honour to be,

Sir,

Your most obedient servant,

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

Accompaniments :—

As per index attached.

Through

THE CHIEF ENGINEER IN SIND
and
THE COMMISSIONER IN SIND.

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

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

The diagram sent in advance of this report compares the inundation of 1913 with the two previous years and with the 10 years' average.

The following table shows the principal features of the year compared with those of previous years:—

				Average of 10 years including 1912.	Average of 3 years including 1913.	1912.	1913.
				Days.	Days.	Days.	Days.
Gauges—							
Bukkur	10 feet and over	...	...	90	78	60	60
"	13 "	"	"	43	21	31	16
Kotri	14 "	"	"	115	123	100	114
"	17 "	"	"	66	86	59	66
Irrigation—							
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	1,438,906
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 3 years including 1912-13.	Kharif...	Acres. 526,627	Acres. 453,947	Acres. 245,290	.....	Acres. 699,127	1,225,754
	Rabi ...	181,529	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	25,263	.....	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 ...	-3,301	-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	+2,523	-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 Jágghir.
statement B :—

4. The total irrigation assessment for the year including 'Hakabo' for Jágghir 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	-65,469
	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	36,48,314	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	1,313	.....	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 Accounts are kept	...	...	{ Capital	...	28,027
Works for which only Revenue Accounts are kept	...	...	{ Revenue	...	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:—

						Percentage on outlay.
				Rs.	Rs.	Rs.
Executive	...	...	...		3,39,931	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.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	19,94,909	9,32,389	10,62,520	6,44,358	4,07,862	4,18,737	...	-10,875
Minor Works for which Capital and Revenue Accounts are kept	10,03,051	4,09,396	6,58,655	.....	6,58,655	6,63,523	+5,127	...
Total	30,52,660	13,41,785	17,10,875	6,44,358	10,66,517	10,72,265	+5,127	-10,875
Works for which Only Revenue Accounts are kept	6,47,987	2,67,730	3,80,257	.....	3,80,257	4,42,789	...	-62,532
Agricultural Works	260	1,14,866	-1,15,606	.....	-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	17,47,867	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.

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

Area of principal crops, Government and Jághir.

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 ...	1,904	403,766	405,120	404,233	422,844	+887	-17,724
	Jowári ...	86,050	46,216	132,266	113,708	124,030	+10,322	+8,286
	Bajri ...	315,884	76,834	392,718	374,932	435,921	+43,000	+43,203
	Cotton ...	164,641	158,199	322,840	292,337	278,007	-14,330	+44,173
	Other crops ...	25,245	10,069	35,314	40,118	34,617	-5,501	+6,697
Total ...	593,184	701,074	1,294,258	1,225,328	1,206,079	-18,249	-1,621	
Rabi	Wheat ...	10,804	95,070	106,543	120,550	121,178	+524	+14,635
	Barley ...	296	2,589	2,795	4,629	4,770	+141	+1,075
	Oil-seeds ...	2,182	63,561	65,773	66,234	54,147	-11,087	+11,626
	Other crops ...	5,041	41,975	47,016	50,542	49,380	-1,162	-1,404
Total ...	18,323	203,695	222,027	242,155	229,475	-12,680	-6,448	
Grand Total ...	611,507	904,769	1,516,285	1,467,483	1,435,554	-31,931	-8,209	

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. 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.*, 155,589 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.

Duties and deltas of Canals.

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

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 groyne 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 249,258 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. 7,41,952, the average revenue of the previous triennium. Deducting working expenses Rs. 3,53,759, 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
Báji	...	...	...	...	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 169,179 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. 2,60,961 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.
Báji	...	...	...	...	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. 3,934 was spent on converting the Chanhi bridge into a regulator in mile 25, Nasrat.

Extensions and Improvements.—The expenditure during the year was Rs. 22,326 on "Works" only and was chiefly spent on the construction of a bungalow and office for the Executive Engineer at Nawabshah (the cost of which is divided between Dad and Nasrat) and on completion of the P. W. Inspection bungalows, Class I, at 68th and 72nd miles, Nasrat.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 1,12,363 including "Work Establishment". This expenditure includes the amount spent on completion of the new month to the Lundi Dhand and clearing the feeder cut.

Irrigation.—The area irrigated during the year was 99,176 acres (kharif 84,580 and rabi 14,596) as compared with 98,000 acres (kharif 86,008 and rabi 11,992) in the previous year and with 90,626 acres (kharif 81,849 and rabi 8,777), the average of the previous three years.

Financial Results.—The gross revenue amounted to Rs. 2,62,138 as compared with Rs. 2,69,804 of the previous year and Rs. 2,57,185, the average of the previous three years. Deducting working expenses Rs. 1,80,293 and share due to old irrigation Rs. 53,046, the net revenue during the year due to improvements was Rs. 28,799 or 1.53 per cent. on the capital outlay to end of the year as compared with 1.67 per cent. in the last year and 0.94 per cent., the average of the previous three years.

General Remarks.—The remissions granted during the year amounted to Rs. 17,891 against Rs. 15,920 remitted last year and Rs. 16,616, the average remissions of the previous three years. The increase in remissions is due to damage done by locusts.

The principal crops grown were—

					Acres.
Jowári	...	...	...	...	33,029
Cotton	...	...	...	...	26,877
Báji	...	...	...	...	20,148
Oil-seeds	...	...	...	...	10,925

and the estimated value of the outturn was Rs. 19,48,546 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 392,032 acres (kharif 350,101 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
Báji	...	...	...	...	73,563
Cotton	...	...	...	...	23,092
Oil-seeds	...	...	...	...	15,899

and the estimated value of the outturn was Rs. 58,27,770 or Rs. 15 per acre.

28. 2.—*Hasanali Canal.*

Extensions and Improvements.—A sum of Rs. 1,438 was spent on "Works" only.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 13,604 inclusive of "Work Establishment".

Irrigation.—The area irrigated during the year was 17,881 acres (kharif 17,608 and rabi 273) compared with 17,929 acres (kharif 17,690 and rabi 239) in the previous year and with 17,537 acres (kharif 17,211 and rabi 326), the average cultivation of the past three years.

Financial Results.—The gross revenue amounted to Rs. 42,338 compared with Rs. 48,351 realized last year and Rs. 48,354, the average realizations of the previous three years. Deducting working expenses Rs. 23,587 and share due to old irrigation Rs. 2,458, the net revenue due to improvements was Rs. 16,293 or 5.35 per cent. on the capital outlay to end of the year against 5.67 per cent. in the last year and 6.16 per cent., the average of the previous three years.

General Remarks.—The sum remitted during the year was Rs. 7,364 against Rs. 24 only remitted last year and Rs. 2,442, the average remissions of the past three years. The heavy amount remitted this year was due to floods caused by heavy rains and to postponement of levy of revised assessment rates.

The principal crop grown was—

					Acres.
Rice	...	...	...	...	14,245

and the estimated value of the outturn was Rs. 5,86,505 or Rs. 33 per acre.

29. *Alibhar Kacheri.*

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 2,729 including "Work Establishment".

Irrigation.—The area irrigated was 14,998 acres (kharif 13,739 and rabi 1,259) against last year's area of 13,291 acres (kharif 12,556 and rabi 735) and 14,068 acres (kharif 12,268 and rabi 1,800), the average area irrigated in the previous three years.

Financial Results.—The gross revenue amounted to Rs. 30,847 against Rs. 28,995 in the last year and Rs. 30,722, the average revenue of the previous three years. Deducting working expenses Rs. 6,366 and share due to old irrigation Rs. 8,239, the net revenue due to improvements was Rs. 16,242 or 67.91 per cent. on the capital outlay to end of year against last year's percentage of 47.80 and 62.42 the average percentage of the previous three years.

General Remarks.—The sum remitted during the year was Rs. 300 against Rs. 40 remitted last year and Rs. 200, the average remissions of the last three years.

The principal crop was bájri 8,853 acres and the value of the whole outturn was estimated at Rs. 4,91,984 or Rs. 33 per acre.

30.

4.—*Great Marak.*

Extensions and Improvements.—A sum of Rs. 3,884 was spent on “Works” only.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 19,743 including “Work Establishment”.

Irrigation.—The area irrigated was 72,263 acres (kharif 64,514 and rabi 7,749) against 72,333 acres (kharif 67,181 and rabi 5,152) in the last year and 69,247 acres (kharif 63,777 and rabi 5,470 acres), the average of the previous three years.

Financial Results.—The gross revenue amounted to Rs. 1,72,883 against Rs. 1,73,140 in the last year and Rs. 1,67,158 the average of the previous three years. Deducting working expenses Rs. 45,932 and share due to old irrigation Rs. 36,032, the net revenue due to improvements was Rs. 90,919 or 42.14 per cent. on the capital outlay to end of the year compared with 37.93 per cent. in the previous year and 38.29 per cent., the average of the last three years.

General Remarks.—The sum remitted during the year was Rs. 1,480 against Rs. 1,094 remitted last year and Rs. 1,431, the average remissions of the last three years.

The principal crops were—

					Acres.
Bájri	...	...	...	...	36,105
Cotton	...	...	...	...	22,592

and the value of the whole outturn was estimated at Rs. 23,23,936 or Rs. 32 per acre.

31.

Sarfraz.

Maintenance and Repairs.—The canal and its branches were maintained at a cost of Rs. 10,910 including “Work Establishment”.

Irrigation.—The area irrigated during the year was 30,726 acres (kharif 28,823 and rabi 1,903) against 33,655 acres (kharif 32,376 and rabi 1,279) in the last year and 30,799 acres (kharif 29,580 and rabi 1,219), the average of the previous three years.

Financial Results.—The gross revenue was Rs. 62,852 against last year's figure of Rs. 62,944 and Rs. 59,949, the average revenue of the previous three years. Deducting working expenses Rs. 19,933 and share due to old irrigation Rs. 10,985, the net revenue due to improvements was Rs. 31,934 or 25.61 per cent. on the capital outlay to end of the year compared with 27.41 per cent. in the previous year and 23.82 per cent. the average of the previous three years.

General Remarks.—The sum remitted during the year was Rs. 2,895 against Rs. 102 remitted last year and Rs. 50, the average remissions of the previous three years.

The principal crops were—

					Acres.
Bájri	...	...	...	...	18,670
Cotton	...	...	...	...	6,963

and the value of the whole outturn was estimated at Rs. 4,42,077 or Rs. 14 per acre.

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

32.

1. *Nasrat Canals District.*

The principal canals under this classification are the Mehrab, the Naulakhi and the Dambhro.

Extensions and Improvements.—A sum of Rs. 6,235 was spent on "Works" only chiefly on the construction of a P. W. Inspection bungalow, Class II, at Phul and a small regulator over Mirwah Duro ex: Dambhro and on completion of the P. W. Inspection bungalow, Class II, at Mehrabpur.

Maintenance and Repairs.—The expenditure was Rs. 58,853 including "Work Establishment".

Irrigation.—The total area irrigated during the year was 93,553 acres (kharif 80,675 and rabi 12,878) against last year's area of 94,421 acres (kharif 81,179 and rabi 13,242) and the three years' average area of 93,373 acres (kharif 79,384 and rabi 13,989).

Financial Results.—The total canal revenue amounted to Rs. 2,36,280 and the total revenue charges were 84,857 which represents 39.9 per cent. on revenue and Re. 0.9 per acre irrigated against last year's figures of 30.0 per cent. and Re. 0.8 per acre. The corresponding figures for the previous three years averaged 37.6 per cent. and Re. 0.9 per acre.

General Remarks.—The remissions granted during the year amounted to Rs. 907 against Rs. 1,678 remitted last year and Rs. 5,796 the average remissions of the previous three years.

The principal crops grown were—

					Acres.
Jowári	...	...	...	...	52,095
Báji	...	...	...	...	16,774
Wheat	...	...	...	...	9,506

and the estimated value of the outturn was Rs. 13,84,654 or Rs. 15 per acre.

33. 2.—Hyderabad Canals District.

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

Extensions and Improvements.—A sum of Rs. 23,569 was spent during the year chiefly on the Executive Engineer's bungalow and office at Hyderabad charged to Gharo Mahmudo.

Maintenance and Repairs.—All the canals were maintained in good order at a cost of Rs. 67,099 including "Work Establishment". Of this amount Rs. 7,990 were spent on widening Sangrowah and connecting it by a new cut with Gharo Mahmudo, which was cut into two parts at its 8th mile by erosion of the river. The work was in progress at the end of the year.

Irrigation.—The total area irrigated was 166,998 acres (kharif 151,732 and rabi 15,266) against 170,971 acres (kharif 155,217 and rabi 15,754) in the last year and 162,336 acres (kharif 144,645 and rabi 17,691), the average of the past three years.

Financial Results.—The total canal revenue amounted to Rs. 3,38,875 and the revenue charges were Rs. 1,12,176 being 33.1 per cent. on the revenue and Re. 0.7 per acre irrigated against last year's figures of 29.6 per cent. and Re. 0.6 per acre irrigated. The corresponding figures for the previous three years were 28.2 per cent. and Re. 0.6 per acre irrigated.

General Remarks.—The remissions amounted to Rs. 1,188 against Rs. 1,398 remitted last year and Rs. 2,039, the average remissions of the previous three years.

The principal crops were—

					Acres.
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 :—

Expenditure and receipts on gardens.

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 6,550 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.)

TABLE I.

TABLE

Area of Cultivation and Consolidated Revenue for 1913-1914 and comparison with Irrigation share of

Canals and Executive Districts.	Cultivation.			Consolidated Assessment.			
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
1	2	3	4	5	6	7	
MAJOR WORKS.							
PRODUCTIVE WORKS.							
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.							
<i>Canals in Operation.</i>							
Begéri Canals District	{ Desert Canal	79,895	39,557	119,552	1,99,318	1,04,036	3,03,354
	{ Unharwah	45,245	15,167	60,412	1,11,590	43,899	1,54,489
	{ Begéri Canal	164,131	73,822	237,953	4,34,939	2,00,230	6,25,169
	Total	289,271	128,546	417,917	7,35,847	3,47,166	10,83,013
Shikarpur Canals District	{ Mahiwah	41,569	13,843	55,412	1,16,439	47,263	1,63,697
Jamrao Canal District	{ Jamrao Canal	175,072	54,119	229,791	5,79,196	1,89,143	7,68,349
Nasrat Canals District	{ Dad Canal	83,342	16,061	99,403	2,22,614	63,299	2,74,913
	{ Nasrat Canal	84,345	11,689	96,011	2,00,100	35,991	2,97,091
	Total	167,684	27,750	195,334	4,22,714	89,290	5,72,004
Eastern Nera District	{ Nera Supply Channel	844	3,431	4,285	2,345	9,717	12,062
	{ Eastern Nera	23,379	14,011	37,390	41,470	24,411	65,881
	{ Mithrao Canal	116,055	13,069	129,124	3,63,463	35,072	3,98,534
	{ Thar Canal	52,552	3,286	55,838	1,63,766	10,333	1,93,688
	{ Khirra Canal	2,556	940	3,495	4,233	1,321	5,493
	{ Heran Canal	907	66	973	2,005	241	2,306
	{ Hiral Canal	16,566	1,317	17,883	57,238	5,416	62,654
	Total	212,048	35,100	247,148	6,63,638	68,510	7,40,148
	Total, Major Works	886,244	269,358	1,155,602	25,67,781	7,59,426	33,27,210
MINOR WORKS.							
IRRIGATION AND NAVIGATION.							
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.							
<i>Canals in Operation.</i>							
Ghar Canals District	{ Sukkur Canal	62,165	15,447	77,612	3,22,851	67,412	2,90,263
	{ Ghar Canal	210,288	27,069	237,357	9,32,415	1,70,776	11,03,191
	Total	272,453	42,516	314,969	11,55,266	2,38,188	13,93,454
Karachi Canals District	{ Sutlah Canal	14,448	1,612	16,060	29,526	2,426	31,952
Hyderabad Canals District	{ Alibhar Kacheri	12,470	611	13,081	22,243	1,227	34,170
	{ Mirak	57,433	5,718	63,151	1,67,415	17,403	1,84,818
	{ Sarifraz	25,224	1,614	26,838	64,030	3,264	67,884
	Total	95,877	7,943	103,820	2,63,678	23,194	2,86,872
Fuleli Canals District	{ Fuleli Canal	227,985	81,425	319,410	9,33,925	67,347	10,01,272
	{ Harsanali Canal	16,973	170	17,143	63,003	420	63,513
	Total	304,957	81,595	386,552	9,97,018	67,767	10,64,788
Total, Minor Works, Capital and Revenue Accounts		687,785	63,656	751,441	24,85,468	3,31,575	27,67,063
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.							
<i>Canals in Operation.</i>							
Shikarpur Canals District	{ Canals in Rohri	26,699	12,673	39,372	1,00,841	47,073	1,47,414
	{ Sind Canal	50,531	12,699	63,230	1,90,522	49,894	2,40,416
	{ Rajib Canal	6,112	3,656	9,770	29,891	10,168	46,079
	{ Chitti Canal	4,680	5,444	10,104	23,276	23,043	45,919
	{ Garang Canal	2,724	3,637	6,361	11,003	15,080	27,203
	Total	90,726	38,111	128,837	3,54,638	1,52,457	5,07,120
Western Nera District	{ Nira	200,841	37,439	237,780	6,38,663	1,72,041	10,10,769
	{ Manchar	8,413	14,129	17,541	10,368	35,363	46,074
	{ Aral	3,071	4,088	7,159	7,687	14,901	22,588
	{ Pritchard Canal	7,311	1,300	8,611	28,227	5,780	33,527
	{ Walhur	960	1,378	2,338	3,152	5,106	8,317
	{ Marvi	3,942	1,579	4,521	0,149	5,578	14,726
	{ New Feeder, Western Nera	876	64	940	3,647	224	3,871
	{ Padu Canals	7,536	8,890	16,426	21,596	28,901	49,657
	{ Phitta Canals	4,333	2,200	6,533	10,946	7,776	18,722
	{ Canals, north of Kotri	9,052	3,155	11,207	22,107	7,308	29,472
	Total	238,884	74,222	313,056	9,65,564	2,81,753	12,37,323
Karachi Canals District	{ Kalri	16,223	4,411	20,633	41,041	9,570	50,667
	{ Lazhar	29,329	5,600	34,929	83,623	10,112	73,705
	{ Indus Canals, Right Bank	26,079	2,054	28,133	63,313	3,117	70,430
	{ Pinyari	90,486	8,701	99,187	2,07,323	10,803	2,18,216
	{ Indus Canals, Left Bank	40,718	4,716	45,434	1,03,218	6,799	1,10,017
	Total	212,434	25,542	237,976	4,05,518	40,777	5,09,235

1.

the average of the previous three years showing Increase or Decrease under Heads—Kharif, Rabi and Net Consolidated Assessment.

Remissions.			Net Consolidated assessment.	Irrigation share 90 per cent.	Average of previous three years.				Results as compared with the average of the previous three years.			
Kharif.	Rabi.	Total.			Cultivation.			Irrigation share of Net Consolidated assessment.	Cultivation.			Irrigation share of Net Consolidated assessment.
					Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
8	9	10	11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Acres.	Rs.	Acres.	Acres.	Acres.	Rs.
10,650	27,694	38,334	2,65,030	2,38,518	83,327	33,359	116,598	2,47,020	-3,333	6,298	2,966	-8,562
6,969	5,430	12,418	1,42,071	1,27,384	49,369	20,753	70,140	1,53,056	-4,113	-5,615	-9,728	-20,122
1,833	33,381	35,204	5,59,065	5,30,969	109,735	21,376	134,111	3,10,527	54,396	49,446	103,943	2,20,442
19,461	66,495	85,956	9,97,056	8,97,351	242,420	78,417	320,637	7,15,603	46,951	50,139	97,080	1,81,746
531	1,503	2,034	1,61,663	1,46,497	43,529	20,249	63,778	1,68,379	-1,960	-6,406	-8,366	-23,633
9,746	1,073	10,819	7,57,580	6,61,777	167,474	69,931	216,405	6,43,901	18,198	-4,812	13,383	37,876
2,473	1,017	3,490	2,71,423	2,44,281	84,605	11,917	96,523	2,38,661	-1,614	4,164	2,550	5,620
11,304	6,837	17,691	2,79,220	2,51,260	81,510	7,006	88,516	2,42,913	2,732	4,663	7,395	8,327
13,737	7,614	21,351	5,60,623	4,95,561	166,469	18,923	185,392	4,81,604	1,118	8,827	9,945	13,957
.....	947	947	11,715	10,544	695	4,408	5,303	19,979	-51	-937	-1,033	-2,435
1,035	483	1,523	64,358	57,922	21,308	16,863	37,171	68,175	1,971	-1,853	119	-253
20,864	348	31,012	3,77,543	3,39,788	99,601	17,313	116,913	3,40,243	15,454	-5,243	10,211	-455
19,123	15	19,137	1,74,951	1,57,456	51,921	4,583	56,604	1,72,345	1,631	-1,297	334	-14,889
84	116	200	5,403	4,883	2,655	1,126	3,781	5,274	-100	-186	-286	-411
.....	.....	.....	2,306	2,075	1,583	78	1,663	4,066	-678	-790	-2,220	-820
8,093	499	8,592	54,162	48,658	13,333	4,767	18,000	53,387	3,533	-3,442	83	-5,221
47,998	1,813	49,811	6,90,397	6,21,304	190,393	48,127	238,520	6,46,998	21,650	-13,027	8,823	-25,694
91,473	78,523	1,70,001	31,57,209	28,41,490	600,287	224,647	1,024,934	26,56,485	85,957	34,711	120,663	1,85,005
1,884	1,405	3,379	2,86,894	2,58,198	65,613	7,436	73,049	2,35,769	-3,447	9,011	4,564	23,427
11,918	1,522	13,740	10,89,451	9,80,507	207,594	24,040	231,934	9,20,468	2,394	3,019	5,413	60,019
13,802	8,317	17,119	13,78,335	12,38,708	273,506	31,476	304,983	11,56,257	-1,058	11,030	9,977	88,446
8,517	63	8,580	23,372	21,035	13,700	261	13,961	24,323	748	1,351	2,099	-3,787
.....	300	300	33,970	30,483	11,061	1,403	12,464	29,282	1,409	-792	617	1,201
1,155	325	1,480	1,83,338	1,65,004	56,814	3,898	60,690	1,59,894	669	1,852	2,521	5,110
2,805	.....	2,895	64,989	58,490	25,443	1,054	26,502	56,188	478	560	1,038	2,292
4,050	625	4,675	2,92,197	2,63,977	93,323	6,823	99,646	2,45,374	2,554	1,630	4,174	8,603
2,19,793	1,747	2,21,540	7,79,739	7,01,759	274,283	39,744	314,027	7,57,366	13,703	-8,319	5,383	-55,607
7,364	.....	7,364	46,149	41,534	16,917	237	16,884	43,823	365	-67	288	-789
3,27,157	1,747	2,28,904	8,25,861	7,43,293	290,900	39,981	330,881	7,99,699	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	30,836
541	1,107	1,648	1,45,776	1,31,191	29,794	13,291	42,075	1,32,653	-2,085	-618	-2,703	-1,462
2,978	431	3,369	2,37,107	2,13,396	50,182	10,847	61,029	1,85,534	349	1,852	2,201	24,873
.....	196	196	45,483	41,295	5,458	2,797	8,255	31,907	664	861	1,515	9,393
26	40	65	45,364	41,599	5,073	3,687	8,760	35,496	-413	1,757	1,344	7,773
23	170	201	27,091	24,382	2,540	2,400	4,940	18,152	161	1,297	1,431	6,230
3,469	1,950	5,419	5,01,711	4,51,533	92,037	33,022	125,059	4,04,742	-1,311	5,989	3,778	46,791
89,039	10,350	99,389	9,11,320	8,20,189	196,564	42,492	238,856	8,33,294	3,977	-5,053	-1,076	-13,105
3,721	5,375	10,096	35,678	32,020	3,353	11,893	15,236	35,468	59	2,316	2,305	-4,778
.....	1,469	1,499	21,089	19,980	2,944	5,737	8,671	23,643	127	-1,639	-1,513	-3,463
2,091	290	2,381	31,206	28,085	7,574	869	8,443	27,868	-263	441	178	247
179	179	358	8,133	7,324	913	890	1,793	5,189	47	493	545	2,136
189	114	303	14,423	12,981	2,884	1,372	4,256	11,559	68	297	265	1,472
.....	.....	.....	3,971	3,484	979	107	1,686	4,023	-103	-43	-146	-529
40	37	77	49,530	44,622	8,176	9,817	16,993	42,037	-540	78	-557	3,565
1,169	.....	4,109	14,613	13,152	3,894	1,433	5,317	12,394	439	777	1,216	763
6,399	281	6,680	22,792	20,513	3,941	4,291	12,905	31,175	-289	-1,109	-1,396	-10,663
1,06,767	17,946	1,24,713	11,12,610	10,01,350	235,123	77,894	313,246	10,26,849	3,412	-3,602	-190	-25,499
22,179	120	22,299	28,568	25,711	10,653	2,342	19,201	30,944	-637	2,660	1,432	-5,333
13,630	1,025	14,655	59,110	52,299	20,137	2,039	21,468	51,619	-98	3,621	3,623	770
7,418	32	7,448	48,952	44,081	25,133	2,174	27,324	35,395	4,347	-140	4,407	8,689
85,353	633	86,021	1,32,195	1,18,975	84,040	4,400	88,540	1,80,374	6,446	4,341	10,677	-61,419
84,679	301	84,980	75,037	67,534	51,031	2,791	53,812	86,414	-4,313	1,935	-2,378	-18,580
1,64,292	2,111	1,66,403	3,42,893	3,08,603	206,480	13,816	220,305	3,84,688	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.							
IRRIGATION AND NAVIGATION—continued.							
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—continued.							
<i>Canals in operation—continued.</i>							
Nasrat Canals District ...	{ Mehraabwah ... Naulakhi ... Dambro ... Other Canals ...	12,328 638 40,680 5,644 11,161 1,170 7,588 3,109	12,961 638 52,230 5,644 13,340 1,170 10,997 3,109	33,254 1,908 18,506 3,758 32,684 19,909 12,548 32,547	1,908 18,506 3,758 12,548	35,162 1,66,743 36,442 32,547	
Total ...		77,703	10,465	88,228	2,24,174	30,720	2,60,894
Hyderabad Canals District ...	{ Gheero Mahmudo ... Kari Shumali ... Nasir ... Renwah ... Other Canals ...	63,010 32,680 29,108 399 4,300	5,649 1,536 1,606 379 635	68,659 34,216 30,714 778 4,935	1,07,780 61,084 73,440 808 10,258	14,478 4,368 5,045 1,254 2,427	1,82,258 85,450 78,485 2,520 12,685
Total ...		120,497	9,805	130,302	8,33,538	27,570	3,61,098
Fuleli Canals District ...	Other Canals ...	20,856	1,824	22,680	65,438	4,061	60,599
Total, Minor Works, Revenue Accounts only ...		770,110	150,969	930,079	24,02,255	5,43,374	20,45,629
AGRICULTURAL WORKS.							
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.							
Begari Canals District ...	Kashmore Bund ...	1,788	1,178	2,966	3,021	3,053	6,074
Shikarpur Canals District ...	{ Bunds in Rohri ... Sukkur-Begari Bunds ... Kasimpur Bund ...	67 731 618	9 5,347 723	66 6,078 1,341	222 3,291 1,681	29 20,658 2,755	251 23,949 4,436
Total ...		1,436	6,079	7,515	5,194	23,412	28,606
Ghar Canals District ...	Ghar Bunds ...	457	464	921	2,277	2,240	4,523
Western Nara District ...	{ Nara Bund ... Bunds, north of Kotri ...	2,038	659	2,697	8,143	2,401	10,549
Total ...		2,038	659	2,697	8,148	2,401	10,549
Indus Right Bank Division ...	{ Bunds, Right Bank ... Bunds, Left Bank ...	3,052 4,208	224 199	4,176 4,404	8,420 8,226	764 50	9,193 8,735
Total ...		8,180	420	8,580	16,655	1,273	17,928
Total Agricultural Works ...		13,979	8,600	22,679	35,695	32,416	68,310
Indus Right Bank Division ...	{ Begari Canals District ... Shikarpur Canals District ... Ghar Canals District ... Western Nara District ... Karachi Canals District ...	291,159 133,731 272,910 240,872 235,042	129,724 59,033 42,970 74,881 27,574	420,883 191,764 315,880 315,763 262,910	7,30,468 4,70,256 11,57,543 9,03,712 5,14,009	3,50,218 2,33,197 2,40,424 2,84,100 44,470	10,80,686 6,99,433 13,97,977 12,47,872 5,59,175
Total ...		1,173,714	333,182	1,506,896	38,51,678	11,42,465	49,94,163
Indus Left Bank Division ...	{ Jamrao Canal District ... Eastern Nara District ... Nasrat Canals District ... Hyderabad Canals District ... Fuleli Canals District ...	175,672 212,048 245,347 225,374 325,813	54,119 35,100 38,215 17,749 33,419	229,791 247,148 283,562 243,122 359,232	5,79,156 6,63,634 7,09,883 5,97,206 10,52,556	1,59,103 86,510 1,26,010 59,794 71,828	7,66,310 7,40,139 8,32,898 6,47,970 11,24,684
Total ...		1,184,254	178,001	1,362,855	35,89,744	5,24,303	41,14,049
Total, Sind ...		2,357,068	511,783	2,868,761	74,41,422	16,60,700	91,08,212

NOTE :—The figures in this Statement are Assessments.

I—concluded.

Remissions.			Net Consolidated assessment.	Irrigation share per cent.	Average of previous three years.				Results as compared with the average of the previous three years.			
Kharif.	Rabi.	Total.			Cultivation.			Irrigation share of Net Consolidated assessment.	Cultivation.			Irrigation share of Net consolidated assessment.
					Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
8	9	10	11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Acres.	Rs.	Acres.	Acres.	Acres.	Rs.
.....	73	73	35,000	31,531	10,619	683	11,302	24,997	1,709	-50	1,659	6,584
734	13	747	1,65,696	1,40,396	46,678	5,370	52,048	1,40,507	8	174	182	-111
60	...	60	36,392	32,753	11,276	1,390	12,666	33,133	-115	-211	-326	-270
38	...	38	32,509	29,268	7,474	4,110	11,584	29,293	113	-1,001	-887	-35
822	85	907	2,50,987	2,33,958	76,047	11,553	87,600	2,27,820	1,716	-1,088	628	6,168
470	311	781	1,81,477	1,63,329	59,447	6,150	65,597	157,654	3,563	-501	3,062	5,675
340	...	340	85,104	76,593	30,313	1,584	31,897	72,171	2,367	-58	2,309	4,432
31	...	31	78,454	70,600	20,636	1,800	31,436	72,566	-528	-194	-722	-1,957
.....	...	.....	3,220	1,998	388	197	1,066	2,678	11	-318	-307	-878
.....	80	80	12,655	11,300	4,647	1,984	6,631	16,073	-347	-1,349	-1,696	-4,683
847	341	1,188	3,59,910	3,23,919	124,431	12,225	136,656	3,21,340	5,066	-2,420	2,646	2,579
5,137	...	5,137	64,762	58,286	18,886	1,646	20,532	53,977	1,970	178	2,148	4,309
2,91,334	23,433	3,03,767	26,41,862	23,77,679	753,312	150,036	903,398	24,19,394	16,798	9,883	26,681	-41,715
113	615	733	5,941	5,347	2,451	1,944	4,395	8,695	-663	-766	-1,429	-3,348
...	...	.....	251	226	.....	377	377	979	87	-368	-281	-753
5	46	51	23,898	21,598	1,810	3,202	5,092	17,755	-1,079	2,065	936	3,753
.....	...	.....	4,436	3,892	659	746	1,305	3,797	69	-23	36	195
5	46	51	28,565	25,738	2,369	4,405	6,774	22,531	-933	1,674	741	3,195
.....	39	30	4,493	4,044	411	219	630	2,520	46	245	291	1,624
213	...	213	10,336	9,302	2,361	759	3,111	10,087	-323	-91	-414	-785
.....	...	.....	.....	.....	142	295	437	1,313	-142	-295	-437	-1,313
213	...	213	10,336	9,302	2,503	1,045	3,548	11,399	-465	-386	-851	-2,097
2,507	...	2,507	6,596	5,938	4,247	398	4,645	7,461	-295	-174	-469	-1,525
435	...	435	8,300	7,470	3,996	190	4,186	7,463	212	6	218	1
3,032	...	3,032	14,896	13,406	8,243	583	8,831	14,930	-83	-168	-251	-1,524
3,368	691	4,059	64,251	57,825	15,977	8,201	24,178	60,075	-2,098	699	-1,499	-2,250
19,579	67,110	86,689	10,02,997	9,02,695	244,871	80,361	325,232	7,24,298	46,288	49,303	95,651	1,78,400
4,006	3,499	7,504	6,91,949	6,22,756	137,935	67,676	195,611	5,95,652	-4,204	357	-3,847	27,104
13,302	3,347	17,149	13,50,828	12,42,747	273,917	31,695	305,612	11,58,777	-1,007	11,275	10,238	83,970
1,06,980	17,916	1,24,926	11,22,946	10,10,652	237,025	78,869	316,794	10,38,218	2,947	-3,983	-1,041	-27,596
1,75,811	2,174	1,78,016	3,81,160	3,43,044	228,432	14,666	243,097	4,24,418	6,610	12,909	19,519	-81,374
3,20,207	94,076	4,14,283	45,70,650	41,21,597	1,123,030	263,266	1,386,346	33,41,393	50,634	69,016	120,550	1,60,504
9,740	1,073	10,819	7,57,530	6,81,777	157,474	53,931	216,405	6,43,911	18,198	-4,812	13,386	37,876
47,908	1,813	49,811	6,90,337	6,21,304	190,393	46,127	236,520	6,46,899	21,650	-13,027	8,623	-25,694
14,559	7,729	22,288	8,10,610	7,09,349	242,512	30,476	272,989	7,09,424	2,834	-7,339	10,573	20,125
4,897	860	5,863	6,42,107	5,77,806	217,754	18,543	236,297	5,68,714	7,629	-900	6,829	11,182
2,32,294	1,747	2,34,041	8,90,643	8,01,579	309,766	41,627	351,413	8,53,666	16,027	-8,208	7,819	-52,087
3,03,494	13,323	3,22,823	37,91,227	34,12,105	1,117,925	197,709	1,315,634	34,20,703	66,339	-19,108	47,221	-8,598
6,23,701	1,07,404	7,37,105	83,71,107	76,31,002	2,241,005	460,975	2,701,980	78,62,096	116,963	50,808	167,771	1,71,906

TABLE II.

Area of Cultivation and Canal Revenue for 1913-1914 and the previous five years.

Years.	CULTIVATION.			Water-share of net consolidated Assessment.	Hakábo.	Miscellaneous.	Total Canal Revenue.	
	Government.	Jághir.	Total.					
1	2	3	4	5	6	7	8	
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	
Indus Right Bank Division.	1908-1909 ...	1,658,500	183,725	1,842,225	44,38,125	1,27,506	62,923	46,28,554
	1909-1910 ...	1,436,564	159,940	1,596,504	41,01,857	1,67,169	67,439	43,36,465
	1910-1911 ...	1,547,985	168,784	1,716,769	44,62,502	1,39,770	81,268	46,83,540
	1911-1912 ...	1,207,427	113,061	1,320,488	35,08,069	1,15,918	71,848	36,95,835
	1912-1913 ...	1,403,629	136,452	1,540,081	38,53,603	1,17,473	72,311	40,43,387
	Average ...	1,450,821	152,392	1,603,213	40,72,831	1,33,567	71,158	42,77,556
	1913-1914 ...	1,506,896	151,472	1,658,368	41,21,897	1,34,647	72,942	43,29,486
Increase or Decrease as compared with 1912-1913 ...	103,267	15,020	118,287	2,68,294	17,174	631	2,86,099	
Do. do. with average ..	56,075	-920	55,155	49,066	1,080	1,784	51,930	
Indus Left Bank Division.	1908-1909 ...	1,370,193	132,131	1,502,324	33,24,091	48,261	75,880	34,48,232
	1909-1910 ...	1,207,819	122,592	1,330,411	31,17,330	54,624	68,856	32,40,870
	1910-1911 ...	1,284,046	121,080	1,405,126	33,16,494	60,400	69,905	34,46,799
	1911-1912 ...	1,292,142	120,157	1,412,299	33,87,512	58,972	78,228	35,24,712
	1912-1913 ...	1,370,713	128,423	1,499,136	35,58,105	55,352	70,408	36,83,865
	Average ...	1,304,982	124,877	1,429,859	33,40,719	55,522	72,655	34,68,896
	1913-1914 ...	1,362,855	126,051	1,488,906	34,12,105	54,471	98,445	35,65,021
Increase or Decrease as compared with 1912-1913 ...	-7,858	-2,372	-10,230	-1,46,000	-881	28,037	-1,18,844	
Do. do. with average ..	57,873	1,174	59,047	71,386	-1,051	25,790	96,125	
Total for Sind ...	1908-1909 ...	3,028,693	315,856	3,344,549	77,62,216	1,75,767	1,38,803	80,76,786
	1909-1910 ...	2,644,383	282,532	2,926,915	72,19,247	2,21,793	1,36,295	75,77,335
	1910-1911 ...	2,832,031	289,864	3,121,895	77,78,996	2,00,170	1,51,173	81,80,339
	1911-1912 ...	2,499,569	233,218	2,732,787	68,95,581	1,74,890	1,50,076	72,20,547
	1912-1913 ...	2,774,342	264,875	3,039,217	74,11,708	1,72,825	1,42,719	77,27,252
	Average ...	2,755,803	277,269	3,033,072	74,13,550	1,89,089	1,43,813	77,46,452
	1913-1914 ...	2,869,751	277,523	3,147,274	75,31,002	1,89,118	1,71,387	78,94,507
Increase or Decrease as compared with 1912-1913 ...	95,409	12,648	108,057	1,22,294	16,293	28,668	1,67,255	
Do. do. with average ..	113,948	254	114,202	1,20,452	29	27,574	1,48,055	

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 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.	Jaglr.	Total.		Deduct.	Add.						
1	3	3	4	5	6	7	8	9	10	11	12	13
MAJOR WORKS.												
PRODUCTIVE WORKS.												
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.												
<i>Canals in operation.</i>												
Begari Canals District.	Desert Canal ...	119,553	42,392	161,941	2,38,578	...	2,38,578	62,029	4,870	3,24,877	1,910	3,36,787
	Unharwah ...	60,412	83	60,495	1,27,864	...	1,27,864	802	2,024	1,30,190	2,123	1,32,313
	Begari Canal ...	237,933	46,203	284,135	5,30,669	53,613	4,97,356	32,714	3,574	5,33,644	8,533	5,42,177
	Total ...	417,917	88,628	506,545	6,97,351	33,613	8,63,738	1,15,045	9,928	9,88,711	13,371	10,02,082
Shikarpur Canals District ...	Mahliwah ...	55,412	1,661	57,073	1,45,470	1,10,497	35,000	734	3,801	89,535	3,035	42,570
Jamrao Canal District ...	Jamrao Canal ...	229,791	2,909	232,700	6,81,777	...	6,81,777	1,652	58,204	7,39,633	61,685	8,01,318
Nasrat Canals District ...	Dad Canal ...	69,423	7,085	106,508	3,44,281	83,013	1,63,398	2,615	3,377	1,66,380	7,762	1,74,142
	Nasrat Canal ...	95,911	503	96,414	2,51,260	72,854	1,78,426	245	1,161	1,79,632	12,843	1,92,775
	Total ...	165,334	7,588	202,922	4,95,561	1,56,767	3,38,794	2,850	4,558	3,46,212	20,705	3,66,917
Eastern Nara District.	Nara Supply Channel ...	4,265	5,030	9,295	10,544	...	10,544	8	4,387	14,939	185	15,124
	Eastern Nara ...	37,290	...	37,290	57,922	3,444	64,478	...	4,631	69,209	179	69,388
	Mithrao Canal ...	127,124	1,054	128,178	3,39,798	...	3,39,798	636	3,690	3,44,174	829	3,44,503
	Thar Canal ...	55,838	2,438	58,276	1,67,456	...	1,67,456	1,235	3,075	1,61,786	289	1,62,075
	Khipro Canal ...	3,485	...	3,485	4,803	...	4,803	...	131	4,934	9	5,003
	Horan Canal ...	163	...	163	2,075	...	2,075	...	...	2,075	130	2,205
	Hiral Canal ...	18,173	...	18,173	48,656	...	48,656	...	591	49,237	2,226	51,463
	Total ...	247,118	8,572	255,720	6,21,304	3,444	6,17,860	1,939	16,695	6,36,404	3,947	6,39,841
Total, Major Works ...												
		1,145,603	103,452	1,255,054	28,41,400	3,04,321	25,37,169	1,22,230	91,188	27,50,685	1,02,143	28,52,728
MINOR WORKS.												
IRRIGATION AND NAVIGATION.												
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.												
<i>Canals in operation.</i>												
Ghar Canals District.	Sukkur Canal ...	77,612	2,942	80,454	2,53,196	84,896	1,73,300	625	2,149	1,76,064	816	1,76,880
	Ghar Canal ...	237,347	14,490	251,837	9,90,507	1,35,512	8,44,995	4,639	13,678	8,63,122	7,516	8,70,638
	Total ...	314,959	17,332	332,291	12,38,703	2,20,318	10,18,385	5,084	15,737	10,39,186	8,332	10,47,518
Karachi Canals District.	Sattah Canal ...	16,060	61	16,121	21,035	16,145	4,850	22	...	4,912	674	5,586
Hyderabad Canals District.	Alibhar Kacheri ...	13,681	1,691	14,772	30,483	17,505	12,978	52	233	13,131	839	14,152
	Marat ...	63,201	7,963	71,164	1,65,074	69,437	1,05,567	2,958	882	1,09,405	3,406	1,12,811
	Sarifaz ...	27,338	3,059	30,697	58,410	18,806	39,684	1,835	584	42,103	1,493	43,396
	Total ...	103,820	12,713	116,533	2,53,977	95,748	1,58,229	4,843	1,749	1,64,821	5,533	1,70,359
Fuleli Canals District.	Fuleli Canal ...	319,410	62,775	382,185	7,01,759	2,44,549	4,57,210	31,654	10,855	4,99,719	13,127	5,12,846
	Hasanali Canal ...	17,142	637	17,779	41,534	5,916	35,618	431	36,385	431	411	36,796
	Total ...	336,552	63,412	399,964	7,43,293	2,50,465	4,92,828	31,990	11,286	5,36,104	13,533	5,49,632
Total, Minor Works Capital and Revenue Accounts ...												
		771,391	93,618	864,909	23,57,069	5,82,676	16,74,332	41,919	28,772	17,45,023	28,092	17,73,105
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.												
<i>Canals in operation.</i>												
Shikarpur Canals District.	Canals in Robri ...	30,372	10,124	49,496	1,31,191	...	1,31,191	1,310	5,176	1,37,677	4,407	1,42,174
	Sind Canal ...	63,240	6,610	69,850	2,13,346	...	2,13,346	1,015	1,817	2,16,228	8,236	2,24,464
	Rajib Canal ...	9,770	161	9,931	41,295	...	41,295	40	608	41,943	546	42,389
	Chitti Canal ...	10,104	769	10,873	41,269	...	41,269	444	514	42,227	666	42,893
	Garang Canal ...	6,361	946	7,307	24,382	...	24,382	521	474	25,377	669	26,046
	Total ...	136,837	17,610	146,447	4,51,533	...	4,51,533	3,330	8,489	4,63,352	14,607	4,77,959
Western Nara District.	Nara ...	237,780	13,716	250,496	8,29,189	...	8,29,189	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
	Wahar ...	7,159	...	7,159	18,989	...	18,989	...	181	19,141	103	19,244
	Marvi ...	8,611	...	8,611	28,083	...	28,083	...	73	28,158	889	29,047
	Pritchard Canal ...	2,338	...	2,338	7,324	...	7,324	...	1,392	8,716	1,011	9,727
	Dadu Canals ...	4,621	224	4,845	13,991	...	12,981	183	290	13,454	673	14,007
	Phitta Canal ...	940	1,394	2,334	3,484	...	3,484	575	1,164	5,223	503	6,726
	Manchar ...	16,424	...	16,424	44,822	...	44,822	...	...	44,822	...	44,822
	Ard ...	6,533	1,631	8,164	13,153	...	13,153	844	...	13,916	...	13,996
	Other Canals, north of Kotri ...	11,207	1,152	12,359	20,613	...	20,613	1,163	181	21,947	377	22,294
	Total ...	313,056	17,116	330,172	10,01,350	...	10,01,350	7,845	21,453	10,30,678	14,313	10,45,491
Nasrat Canals District.	Mehrabwah ...	12,961	152	13,113	31,541	...	31,541	1	67	31,648	541	32,189
	Naulokhi ...	62,230	2,234	64,464	1,40,306	...	1,40,306	608	273	1,41,482	718	1,42,198
	Dambro ...	12,349	739	13,078	33,763	...	33,763	513	419	33,684	529	34,213
	Other Canals ...	1,697	112	1,809	29,248	...	29,248	64	169	29,473	619	30,091
	Total ...	88,238	3,227	91,465	2,33,858	...	2,33,858	1,375	917	2,36,280	2,405	2,38,685
Hyderabad Canals District.	Gharo Mahmudo ...	68,659	17,167	85,826	1,63,329	...	1,63,329	6,029	2,940	1,72,298	2,411	1,74,709
	Kari Chumali ...	31,216	6,600	37,816	76,563	...	76,563	3,346	1,391	80,240	3,185	83,425
	Nasir ...	30,714	1,555	32,269	70,609	...	70,609	175	1,369	72,183	1,279	73,433
	Rowwah ...	778	...	778	1,989	...	1,989	...	...	1,989	113	2,103
	Other Canals ...	4,935	8	4,943	11,390	...	11,390	...	404	11,794	75	11,869
	Total ...	139,302	25,200	164,502	3,23,919	...	3,23,919	8,560	6,406	3,28,575	7,083	3,35,658
Fuleli Canals District ...	Other Canals ...	22,680	2,280	24,960	58,286	...	58,286	1,262	370	60,918	734	61,652

* Includes Manchar, Aral and new Feeder.

TABLE III—concluded.

Canals 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.	Receipts from sale of Occupancy rights.	Total direct and indirect receipts (columns 11 and 12).	
	Government.	Jagir.	Total.		Deduct.	Add.							
1	2	3	4	5	6	7	8	9	10	11	12	13	
MINOR WORKS—concluded.													
IRRIGATION AND NAVIGATION—concluded.													
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.													
<i>Canals in operation—concluded.</i>													
Karachi Canals District.	(Halri Bagbar Indus Canals Right Bank Pinyari Indus Canals Left Bank	20,633 34,989 31,733 99,187 51,434	464 2,010 1,003 1,862 217	21,097 36,999 32,736 101,049 51,651	25,711 52,299 44,094 1,18,975 67,534	... ... ... ... ...	25,711 52,299 44,094 1,18,975 67,534	362 1,031 537 48 88	150 1,580 39 3,975 235	26,213 54,970 44,660 1,23,983 67,857	428 688 1,224 3,937 1,605	26,641 55,548 45,884 1,27,335 69,462
Total ...		237,976	5,576	243,552	3,08,603	...	3,08,603	2,476	5,559	3,17,038	7,892	3,24,870	
Total Minor Works, Revenue Accounts only ...		930,079	71,069	1,001,148	23,77,679	...	23,77,679	24,838	43,624	24,46,141	47,484	24,93,625	
AGRICULTURAL WORKS.													
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.													
Begari Canals District ... Kashmir Bund ...		2,966	...	2,966	5,347	...	5,347	...	1,553	6,900	383	7,283	
Shikarpur Canals District.	(Bunds in Rohri Sukkur Begari Bund Kasimpur Bund	93 6,073 1,341	... 2,937 ...	98 9,015 1,341	226 21,508 3,992	... ... ...	226 21,508 3,992	... 40 ...	119 2,201 88	345 23,749 4,050	... 1,203 ...	315 24,952 4,050
Total ...		7,515	2,937	10,452	25,726	...	25,726	40	2,403	28,174	1,303	29,377	
Ghar Canals District ... Ghar Bunds ...		921	52	973	4,044	...	4,044	91	202	4,327	27	4,364	
Western Canals District.	(Nara Bunds Bunds, North of Kotri	2,697	...	2,697	9,302	...	9,302	...	422 3	9,724 3	20	9,744 3	
Total ...		2,697	...	2,697	9,302	...	9,302	...	425	9,727	20	9,747	
Karachi Canals District.	(Bunds, Right bank Bunds, Left bank	4,178 4,404	346 119	4,522 4,553	5,938 7,470	... ...	5,938 7,470	... ...	2,516 270	8,452 7,709	240 182	8,692 7,852
Total ...		8,580	495	9,075	13,406	...	13,406	...	2,748	16,152	392	16,544	
Karachi Buildings District ... M. I. Dept...		...	...	...	...	...	...	...	211	211	...	211
Nasarat Canals District.	Miscellaneous Receipts	...	...	...	...	...	...	...	19	19	...	19
Hyderabad Canals District.	Miscellaneous Receipts	...	...	...	...	...	...	...	12	12	...	12
Fuleli Canals District.	Miscellaneous Receipts	...	...	...	...	...	...	...	229	229	...	229
Total, Agricultural Works ...		22,679	3,484	26,163	57,825	...	57,825	131	7,805	65,761	2,025	67,786	
<i>Average Revenue before improvements, vide Bombay Government Resolution Nos. 359, 593 and 507, dated 23rd February and 13th April 1893 and 23rd February 1904, and Nos. 1659 and 1701, dated 29th June 1905, and No. 1372, dated 26th May 1906.</i>													
Begari Canals District ... Begari Canal		...	...	...	...	...	33,613	33,613	...	33,613	...	33,613
Shikarpur Canals District... Mahiwha		...	...	...	...	...	1,10,497	1,10,497	...	1,10,497	...	1,10,497
Ghar Canals District.	(Sukkur Canal Ghar Canal	...	...	...	...	...	84,806 1,35,512	84,806 1,35,512	...	84,806 1,35,512	...	84,806 1,35,512
Total ...		...	...	...	...	...	2,20,318	2,20,318	...	2,20,318	...	2,20,318
Karachi Canal District ... Sattah Canal		...	...	...	...	...	16,145	16,145	...	16,145	...	16,145
Eastern Nara District ... Eastern Nara		...	...	...	...	...	3,444	3,444	...	3,444	...	3,444
Nasrat Canals District.	(Dad Canal Nasrat Canal	...	...	...	...	...	63,913 72,854	63,913 72,854	...	63,913 72,854	...	63,913 72,854
Total ...		...	...	...	...	...	1,56,767	1,56,767	...	1,56,767	...	1,56,767
Hyderabad Central District.	(Alibhar Kacheri Great Marak Sarfray	...	...	...	...	...	17,505 59,437 18,806	17,505 59,437 18,806	...	17,505 59,437 18,806	...	17,505 59,437 18,806
Total ...		...	...	...	...	...	95,748	95,748	...	95,748	...	95,748
Fuleli Canals District.	(Fuleli Canal Hasanali Canal	...	...	...	...	...	2,44,549 5,916	2,44,549 5,916	...	2,44,549 5,916	...	2,44,549 5,916
Total ...		...	...	...	...	...	2,50,465	2,50,465	...	2,50,465	...	2,50,465
Grand Total, Agricultural Works ...		22,679	3,484	26,163	57,825	...	8,89,997	9,44,822	131	7,805	9,52,758	2,025	9,54,783
Indus Bank Division.	(Begari Canals District Shikarpur Canals District Ghar Canals District Western Nara District Karachi Canals District Karachi Buildings District	420,883 191,764 315,880 316,753 292,616	88,632 22,208 17,334 17,116 6,132	509,515 213,972 333,294 332,869 298,748	9,02,698 6,22,756 12,42,747 10,10,632 3,43,044	...	33,613 1,10,497 2,20,318 16,145 16,145	9,02,698 1,10,497 2,20,318 10,10,632 3,43,044	1,15,045 4,104 5,155 7,845 2,498	11,481 14,698 15,939 12,63,811 10,40,405 3,54,247 211	13,754 18,845 8,359 14,833 10,65,238 8,593 211	10,42,978 6,00,403 12,72,200 10,55,238 3,63,145 211	
Total ...		1,506,896	151,472	1,658,368	41,21,597	...	3,80,573	41,21,597	1,34,647	72,942	43,29,436	64,089	43,94,175
Indus Left Bank Division.	(Jamrao Canal District Eastern Nara District Nasrat Canals District Hyderabad Canals District Fuleli Canals District	229,791 247,148 233,603 243,122 359,332	2,909 8,572 10,815 37,973 65,692	232,700 255,720 294,377 281,095 424,924	6,81,777 6,21,304 7,29,549 5,77,896 8,01,579	...	...	6,81,777 6,21,304 7,29,549 5,77,896 8,01,579	1,632 1,939 4,235 13,393 33,252	56,204 16,695 5,494 5,99,458 8,46,718	61,655 6,39,938 3,347 23,110 14,272	8,01,318 6,43,255 7,62,353 12,631 8,60,968
Total ...		1,362,855	126,051	1,488,906	34,12,105	5,06,424	5,06,424	34,12,105	54,471	98,445	35,65,021	1,15,045	36,60,066
Grand Total, Sind ...		2,869,751	277,623	3,147,274	75,34,002	8,86,997	8,86,997	75,34,002	1,89,118	1,71,837	78,94,507	1,79,734	80,74,241

Note.—The figures in Columns 5 and 8 are assessments, those in 9, 10 and 12 are actuals.

TABLE IV.

Area of Cultivation, Assessment, Realizations and Balances outstanding in respect of Lands in Khelut and Jughir 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 Totals 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		
MAJOR WORKS.													
PRODUCTIVE WORKS.													
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.													
<i>Canals in Operation.</i>													
Bexari Canals District.	Khelut Lands Foreign.	Desert Canal ...	28,923	10,209	39,132	37,220	52,392	23,610	75,992	6,155	1,07,067	81,527	25,530
		Begari Canal ...	27,204	2,906	30,170	16,390	23,404	3,580	31,984	14,325	34,049	60,006	4,013
		Total ...	56,127	13,115	69,242	53,610	75,796	27,190	1,07,976	20,480	1,41,116	1,11,533	29,573
		Desert Canal ...	2,013	1,347	3,360	373	325	185	510	...	883	502	381
		Unharwah ...	35	3	38	302	159	47	206	...	508	302	206
		Begari Canal ...	12,920	3,110	16,030	1,251	3,513	1,239	4,802	...	6,033	2,708	3,345
		Total ...	14,968	4,300	19,268	1,926	3,997	1,521	5,518	...	7,444	3,512	3,932
Shikarpur Canals District—Mabihwah.													
			1,130	523	1,653	83	437	198	633	...	1,615	734	781
Jamrao Canal District—Jamrao Canal.													
			2,277	723	2,999	1,908	1,017	517	1,534	...	3,502	1,652	1,850
Nasrat Canals District.		Dad Canal ...	5,323	1,757	7,080	-2,758	2,378	548	2,926	...	168	2,615	-2,447
		Nasrat Canal ...	339	165	504	178	70	69	139	...	317	245	72
		Total ...	5,662	1,922	7,584	2,580	2,448	617	3,065	...	485	2,860	-2,375
Eastern Nara District.		Nara Supply Channel ...	1,812	3,189	5,001	9,260	491	827	1,318	6,604	3,774	8	3,766
		Eastern Nara ...	...	...	...	...	...	...	...	...	...	...	...
		Mithrao Canal ...	933	121	1,054	185	511	48	569	...	744	696	48
		Thar Canal ...	2,182	303	2,485	44	1,228	85	1,313	28	1,329	1,225	94
		Khipro Canal ...	...	...	...	...	...	...	...	...	...	...	...
		Heron Canal ...	...	...	...	...	...	...	...	...	...	...
		Hiral Canal ...	...	...	...	...	...	...	...	...	...	...
		Total ...	4,957	3,615	8,572	9,439	2,230	967	3,190	6,832	5,847	1,939	3,908
Total, Major Works ...													
			85,196	24,256	109,452	63,295	80,915	31,001	1,21,916	27,312	1,59,899	1,22,230	37,669
MINOR WORKS.													
IRRIGATION AND NAVIGATION.													
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Ghar Canals District.		Sukkur Canal ...	2,061	781	2,842	952	1,036	389	1,425	...	2,407	525	1,882
		Ghar Canal ...	13,469	1,022	14,491	...	4,154	385	4,539	...	4,539	4,530	...
		Total ...	15,529	1,803	17,332	952	5,190	774	5,964	...	6,946	5,054	1,882
Karachi Canals District—Sattal Canal.													
			49	12	61	-49	22	4	26	...	-23	23	-45
Hyderabad Canals District.		Alibhar Kacheri ...	1,289	422	1,691	-89	617	35	652	...	553	52	501
		Marsak ...	7,031	932	7,963	3,949	2,391	256	2,647	...	2,907	2,956	41
		Sartraz ...	2,490	160	2,650	5,348	1,248	57	1,305	...	6,651	1,335	4,816
		Total ...	11,199	1,514	12,713	5,607	4,246	343	4,594	...	10,201	4,843	5,358
Fuleli Canals District.		Fuleli Canal ...	57,071	4,804	62,775	3,187	26,972	2,162	29,134	...	32,321	31,654	697
		Hasanali Canal ...	638	1	639	...	298	1	299	...	299	336	-37
		Total ...	58,607	4,805	63,412	3,187	27,270	2,163	29,433	...	32,620	31,990	630
Total, Minor Works, Capital and Revenue Accounts ...													
			85,384	8,134	93,518	9,727	36,728	3,359	40,017	...	49,744	41,919	7,825
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Shikarpur Canals District.		(Canals in Rohri ...	7,019	2,973	9,992	1,593	877	341	1,229	...	2,541	1,217	1,324
		Sind Canal ...	4,042	1,693	5,735	1,549	1,265	80	2,695	...	4,234	1,015	3,219
		Rajb Canal ...	13	151	164	11	5	92	97	...	18	40	68
		Chitti Canal ...	269	50	319	652	162	246	409	...	1,069	444	614
		Garang Canal ...	464	482	946	656	245	233	478	...	1,134	521	613
		Total ...	11,764	6,714	17,478	4,171	3,194	1,712	4,906	...	9,077	3,237	5,840
Bhawalpur Rohri.		Lands Foreign—Canals in	87	45	132	43	33	17	50	...	93	93	...
		Nara ...	6,725	3,900	12,715	5,983	4,715	1,622	6,337	65	12,275	5,090	7,165
		New Feeder Western	...	...	...	...	...	...	...	...	...	...	...
		Nara ...	...	...	...	...	...	...	...	...	...	...	...
		Wahur ...	...	...	...	...	...	...	...	...	...	...	...
		Marvi ...	...	...	...	...	...	...	...	...	...	...	...
		Fitchard Canal	...	...	...	-23	...	...	...	...	-23	...	-23
		Datta Canals	224	...	224	149	84	...	84	...	231	183	59
		Phatta Canal	676	718	1,394	553	350	317	697	...	1,250	575	675
		Manchar	...	...	...	-11	...	...	...	...	-11	...	-11
		Aral	682	949	1,631	424	306	403	714	...	1,139	844	294
		Other Canals North of	...	...	...	...	...	...	...	...	...	...	...
Kotri	749	496	1,245	964	300	53	353	...	1,347	1,153	194		
Virah Bund...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	11,051	6,063	17,114	8,039	5,935	2,410	8,216	65	18,189	7,845	8,344

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 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, including 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	
MAJOR WORKS. PRODUCTIVE WORKS. IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.																		
<i>Canals in Operation.</i>																		
Begari District.	Desert Canal ...	11,891	1,523	156	13,569	78,768	25,124	1,03,887	13,399	1,363	1,18,540	16,712	1,35,261	1,15,778	16,340	16,712	2,391	1,51,221
	Unharwah ...	749	96	15	860	32,631	8,303	40,934	5,270	831	47,035	7,767	54,802	41,633	6,212	7,767	751	56,413
	Begari Canal ...	61,561	7,777	472	69,810	1,47,516	25,251	1,72,767	21,836	1,826	1,95,619	35,334	2,31,253	2,34,328	31,401	35,334	4,904	3,06,667
	Total ...	74,201	9,395	643	84,239	2,58,910	68,678	3,17,588	40,395	3,520	3,61,503	59,813	4,21,316	3,91,768	53,953	59,813	7,746	5,13,301
Mahiwah District.	Mahiwah ...	3,936	425	54	4,415	39,583	11,864	51,444	5,550	707	57,721	11,355	69,076	55,400	6,736	11,355	837	74,323
	Jamrao Canal ...	9,393	7,920	248	17,561	1,04,759	63,066	1,67,824	1,33,080	(a) 4,171 -788	2,94,287	22,201	3,16,488	1,67,217	1,44,631	22,201	19,740	3,53,789
Nasrat District.	Dad Canal ...	39,036	5,631	32	34,699	81,744	15,251	96,995	18,817	106	1,15,918	17,991	1,33,909	1,26,021	24,568	17,991	3,423	1,73,021
	Nasrat Canal ...	22,326	4,321	23	26,670	99,329	13,934	1,12,363	31,745	115	1,34,223	15,751	1,49,974	1,34,639	26,204	15,751	3,640	1,80,233
	Total ...	51,362	9,952	55	61,369	1,81,073	29,235	2,09,359	40,562	221	2,50,141	33,742	2,83,883	2,60,710	50,780	33,742	7,072	3,52,314
Eastern Nara District.	Nara Supply Channel ...	53	9	...	63	8,077	3,183	10,260	1,675	...	11,935	677	12,612	10,313	1,634	677	936	12,910
	Eastern Nara ...	4,836	1,444	17	6,297	19,207	7,856	26,993	8,021	94	34,978	3,620	38,598	31,699	9,576	3,620	1,325	46,220
	Mithrao Canal ...	11,393	3,307	39	14,739	44,748	11,848	56,596	16,480	(a) -733	72,485	20,343	92,633	67,989	19,235	20,343	2,763	1,10,335
	Thar Canal ...	2,040	611	7	2,658	14,546	5,182	20,028	5,968	70	26,096	9,619	35,715	22,098	6,886	9,619	925	39,294
	Khipro Canal ...	...	...	...	...	1,792	...	1,792	631	6	2,329	232	2,621	1,792	587	232	75	2,696
	Heran Canal	5,211	3,565	8,776	2,593	31	11,400	124	12,400	8,776	2,624	2,940	124	363	14,703
Total ...	18,322	5,371	63	23,756	93,681	30,434	1,24,315	35,249	-340	1,59,223	37,620	1,96,843	1,42,637	40,342	37,620	5,687	2,26,236	
Total, Major Works																		
1,57,204 33,063 1,063 1,91,330 6,78,202 1,92,347 8,60,549 2,54,835 7,491 11,22,875 1,64,731 12,87,606 10,17,763 2,96,452 1,64,731 41,082 15,20,014																		
MINOR WORKS. IRRIGATION AND NAVIGATION.																		
<i>WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.</i>																		
<i>Canals in Operation.</i>																		
Ghar District.	Sukkur Canal ...	...	...	...	84,102	8,875	42,977	12,229	81	55,297	18,969	74,266	42,977	12,310	18,969	1,713	75,989	
	Ghar Canal ...	2,873	813	5	3,691	1,03,088	16,347	1,19,435	33,792	226	1,53,453	64,654	2,18,107	1,22,308	34,596	64,654	5,187	2,36,965
Total ...	2,873	813	5	3,691	1,37,190	25,222	1,62,412	46,021	307	2,08,740	83,623	2,92,363	1,65,285	47,146	83,623	6,900	3,02,344	
Karachi District.	Sattah Canal ...	...	...	...	6,557	3,032	8,589	443	50	9,082	1,429	10,511	8,599	493	1,429	62	10,671	
	Allbhar Kachari ...	...	...	...	...	3,729	2,729	966	18	3,743	2,433	6,226	2,729	1,014	2,433	140	6,444	
	Marak ...	3,894	1,392	25	5,301	16,091	3,652	19,743	7,073	128	26,941	12,504	39,445	23,627	8,615	12,504	1,189	45,622
Sarrfaz ...	Sarrfaz ...	...	...	...	9,128	1,781	10,910	3,982	70	14,962	4,413	19,375	10,910	4,052	4,413	558	19,933	
	Total ...	3,894	1,392	25	5,301	25,220	8,162	33,382	12,051	213	45,646	19,400	65,046	37,266	13,691	19,400	1,894	79,231
Fulleh District.	Fulleh Canal ...	15,397	5,155	232	20,784	1,47,734	22,747	1,70,461	57,084	2,564	2,30,129	53,913	2,84,042	1,85,878	65,035	53,913	8,752	3,13,578
	Hasanali Canal ...	1,438	492	22	1,942	10,844	2,780	13,604	4,564	205	18,373	2,566	20,939	15,042	5,273	2,566	706	23,507
Total ...	16,835	5,637	254	22,726	1,58,578	25,527	1,84,065	61,648	2,769	2,48,502	56,479	3,04,981	2,00,920	70,308	56,479	9,458	3,37,165	
Total, Minor Works, Capital and Revenue Accounts are kept																		
23,592 7,842 284 31,718 3,27,545 60,923 3,88,468 1,20,163 3,339 5,11,970 1,60,931 6,73,901 4,12,060 1,31,628 1,60,931 18,304 7,23,923																		
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																		
<i>Canals in Operation.</i>																		
Shikarpur District.	Canals in Rohri ...	1,533	183	-5	1,717	44,530	4,901	49,431	6,107	-163	55,375	8,123	63,498	50,904	6,129	8,123	...	65,215
	Sind Canal ...	15,528	1,918	-52	17,394	54,797	7,742	62,539	7,726	-207	70,058	12,959	83,017	78,067	9,385	12,959	...	1,00,411
	Rajib Canal ...	4,393	540	-14	4,894	1,374	438	3,812	224	-6	2,030	2,500	4,530	6,130	74	2,500	...	9,434
	Chittri Canal ...	793	83	-3	898	3,054	728	3,782	467	-13	4,298	2,504	6,740	4,575	549	2,504	...	7,783
	Garang Canal ...	4,290	530	-14	4,806	1,370	914	2,284	232	-8	2,558	1,616	4,074	6,574	790	1,516	...	5,830
Gidu Dhund ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	26,512	3,275	-88	29,699	1,05,125	14,723	1,19,848	14,806	-397	1,34,257	27,602	1,61,859	1,46,360	17,696	27,602	...	1,91,555	

(a) Suspense Account.

TABLE IV—concluded.

Canals and Executive Districts.	AREA CULTIVATED DURING THE YEAR.			Un-realized balance at end of last year.	ASSESSMENT OF THE YEAR.			Remissions.	Net Total for Collection.	Actual Realizations.	Balance outstanding at end of year.	
	Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	
MINOR WORKS—concluded.												
IRRIGATION AND NAVIGATION—concluded.												
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.												
<i>Canals in Operation—concluded.</i>												
Karachi Canals District.	Kalri	396	68	464	182	181	38	219	...	351	352	-1
	Baghar	1,737	273	2,010	637	769	85	794	...	1,461	1,031	450
	Indus Canal Right Bank	996	7	1,003	211	276	3	279	...	490	537	-47
	Pinyari	1,575	207	1,582	260	719	115	834	...	1,124	463	656
	Indus Canals Left Bank	205	12	217	160	134	4	138	...	293	68	210
Total	4,909	667	5,576	1,460	2,019	245	2,264	...	3,724	2,476	1,248	
Nasrat Canals District.	Mehrabwah	141	11	152	2	45	3	43	...	50	1	49
	Naulakhi	2,620	204	2,824	903	817	50	867	...	1,770	803	962
	Dambro	680	59	739	59	310	37	347	...	1,337	512	725
	Other Canals	71	41	112	-147	61	1	62	...	-85	54	-139
	Total	2,912	315	3,227	1,643	1,233	91	1,324	...	2,972	1,373	1,597
Hyderabad Canals District.	Gharo Mahmudo	14,872	2,205	17,167	-1,845	5,637	264	5,921	...	4,076	6,029	-1,953
	Kari Shumali	6,184	316	6,500	2,258	2,439	151	2,620	...	4,373	2,349	2,024
	Nasir	1,384	201	1,585	2,862	670	10	680	...	3,442	175	3,267
	Ronwah ... ..	...	...	...	...	...	...	...	...	...	...	...
	Other Canals	8	...	8	41	...	...	...	...	41	...	41
Total	22,448	2,812	25,260	3,316	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	13,677	21,995	4,922	26,917	65	45,529	24,833	20,691	
AGRICULTURAL WORKS.												
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.												
Beğari Canals—Kashmor Bund District.	...	...	...	...	...	...	...	...	...	...	...
Shikarpur Canals District.	Bunds in Rohri ... ..	...	...	...	...	...	...	...	...	...	...
	Subkur Bund	1,039	1,898	2,937	53	...	...	...	...	53	40	13
	Kasimpur Bund ... ..	...	...	...	...	...	...	...	...	...	...
Total	1,039	1,898	2,937	53	...	...	...	...	...	53	40	13
Ghar Canals District.	Ghar Bunds	52	...	52	137	21	...	21	...	158	91	67
Western Nara Canals District.	Nara Bunds North of Kotri ... ..	...	...	...	...	...	...	...	...	...	...
Total ... ..	...	...	...	...	...	...	...	...	...	...	...
Karachi Canals District.	Bunds, Right Bank	231	15	246	-79	143	6	149	...	79	...	79
	Bunds, Left Bank	148	1	149	-233	36	...	36	...	-197	...	-197
Total	479	16	495	-303	179	6	185	...	-118	...	-118	
Total, Agricultural Works	1,570	1,914	3,484	-113	200	6	206	...	93	131	-33	
<i>Foreign Lands.</i>												
Shikarpur Canals District.	Beğari Canals District	56,189	13,115	69,304	53,610	80,736	27,190	1,07,976	29,480	1,41,106	1,11,533	29,573
	Shikarpur Canals do.	87	45	132	43	33	17	60	...	93	93	...
Total	56,276	13,160	69,436	53,653	80,819	27,207	1,08,026	29,480	1,41,199	1,11,626	29,573	
<i>Jaghir Lands.</i>												
Indus Right Bank Division.	Beğari Canals District	14,068	4,360	19,328	1,926	3,997	1,521	5,518	...	7,444	3,512	3,932
	Shikarpur Canals District	13,942	8,134	22,076	5,106	3,631	1,903	5,539	...	10,645	4,011	6,634
	Ghar Canals District	15,581	1,503	17,084	1,119	5,211	774	5,985	...	7,104	5,155	1,949
	Western Nara District	11,053	6,063	17,116	8,039	5,805	2,410	8,215	65	16,189	7,815	8,374
	Karachi Canals District	5,427	695	6,122	1,108	2,220	253	2,473	...	3,583	2,493	1,085
Total	60,981	21,055	82,036	17,293	20,564	6,868	27,732	65	44,965	23,021	21,944	
Total	117,257	34,215	1,51,472	*70,951	101,683	34,075	1,35,758	29,545	1,56,104	1,31,617	51,517	
Indus Left Bank Division.	Jamrao Canal District	2,277	722	3,000	1,068	1,017	517	1,534	...	3,502	1,622	1,880
	Eastern Nara District	4,957	3,615	8,572	9,459	2,380	960	3,190	6,832	5,847	1,939	3,908
	Nasrat Canals District	8,373	2,237	10,610	-632	3,681	703	4,389	...	3,457	4,235	-778
	Central Canals District	33,047	4,326	37,973	8,923	12,942	773	13,715	...	22,638	13,393	9,245
	Fuleli Canals District	60,841	4,552	65,602	3,187	28,285	2,155	30,470	...	33,657	33,262	465
Total	110,999	15,752	126,051	*22,635	48,155	5,143	53,298	6,832	69,101	54,471	14,630	
TOTAL, SIND	227,550	49,967	277,517	93,586	1,49,833	39,213	1,89,056	27,377	2,55,265	1,89,118	66,147	

* The difference as compared with last year is due to adjustments made by the Civil Department.

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.			Total.
	Works.	Regular Estab-lishment.	Tools and Plant.	Total.	Clearance Expenditure.				Regular Estab-lishment.	Tools and Plant.	Total.	Public Works Department, including Tools and Plant.				Civil Department Collection Charges.	Indirect Charges.		
					Works.	Works Estab-lishment.	Total.	Works.										Works Estab-lishment.		Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
MINOR WORKS—contd.																			
IRRIGATION AND NAVIGATION—concluded.																			
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.																			
<i>Canals in Operation—concl'd.</i>																			
Western Nara District.																			
Nara New Feeder Western	12,075	2,150	51	14,276	1,02,920	20,266	1,31,715	23,451	554	1,55,720	63,225	2,09,015	1,42,700	26,306	13,326		3,23,291		
Nara					3,700	200	4,055	728	17	4,833	781	5,614	4,938	745	781		5,614		
Marrri					1,200	200	2,400	440	10	2,915	430	3,357	2,400	450	430		3,357		
Wahar					89,121	2,300	97,421	16,457	399	1,08,377	1,709	1,11,046	53,212	16,959	1,709		1,11,910		
Fritchard	781	130	3	914	6,211	6,970	1,241	29	8,240	2,639	10,928	15,998	2,969	2,639		21,172			
Dadu Canals	8,656	1,543	28	10,227	1,300	735	2,044	364	9	2,417	855	3,202	2,044	373	854		3,302		
Phitta Canal																			
Manchar																			
Aral																			
Canals north of Kotri.	468	57	3	528	6,005	2,040	8,033	1,549	37	10,239	1,314	11,603	9,191	1,671	1,314		12,180		
Virah Bund					500	500		500	2	502		502	500	71			561		
Total	21,952	3,810	93	25,961	2,11,060	37,329	2,48,969	44,329	1,047	2,94,345	61,111	3,55,456	2,70,923	49,378	41,111		3,91,417		
Nasrat Canals District.																			
Mehrabwah	447	87	3	537	14,305	1,068	15,163	2,950	109	18,222	1,909	20,131	15,610	3,149	1,869		30,663		
Naulkhi	4,149	807	30	4,986	22,302	3,976	26,268	5,110	189	31,567	8,495	40,063	30,416	6,136	5,495		45,938		
Dambro	1,640	319	13	1,972	6,261	2,575	8,836	1,719	63	10,618	2,002	12,620	10,476	2,113	2,002		14,591		
Other Canals					7,511	1,075	8,586	1,670	62	10,318	1,735	12,053	8,586	1,732	1,732		12,063		
Total	6,235	1,213	45	7,493	50,109	6,664	59,855	11,449	433	70,725	14,132	84,857	65,038	13,130	14,132		92,350		
Hydrabad Canals District.																			
Ghāro Mahmud	21,000	7,664	136	28,900	31,412	4,255	35,667	13,017	230	48,914	10,922	59,836	56,667	11,047	10,322		69,006		
Kari Shumail	1,394	508	9	1,999	8,109	3,085	11,165	4,075	72	15,312	4,633	19,944	12,549	4,631	4,631		21,862		
Nasir	876	320	6	1,202	14,794	2,169	16,963	6,191	110	23,264	4,329	27,593	17,339	6,627	4,329		26,795		
Renwah	309	113	2	424	1,454	1,454	1,454	531	9	1,994	120	2,114	1,763	665	120		2,538		
Other Canals					1,850		1,850	675	12	2,537	672	3,209	1,850	667	672		3,209		
Total	23,569	8,602	153	32,324	57,619	9,490	67,099	24,499	433	92,021	20,155	1,12,176	90,668	33,677	20,155		1,44,500		
Fuleji Canals District.																			
Other Canals	1,251	420	19	1,690	16,540	2,455	18,995	6,372	238	25,658	3,537	29,190	20,226	7,097	3,537		30,860		
Karachi Canals District.																			
Kalri	15,994	792	80	16,876	12,542	4,654	17,106	889	99	18,095	1,600	19,696	33,500	1,600	1,600		35,900		
Baghar Indus Canal Right Bank	45,724	2,353	265	48,342	18,810	9,713	28,523	1,468	166	30,157	3,110	33,267	74,247	4,382	3,110		81,609		
Pinyari Indus Canal Left Bank	19,459	1,001	113	20,573	64,699	13,279	78,978	4,259	481	87,726	6,939	94,637	1,02,431	5,894	6,900		1,15,204		
Other Canals	1,147	59	7	1,213	20,369	4,228	24,807	1,781	201	26,589	4,186	40,755	35,754	2,048	4,186		41,963		
Total	81,718	4,205	474	86,397	1,39,710	33,808	1,78,518	9,185	1,036	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	695	1,83,564	5,80,603	1,11,479	6,92,282	1,10,630	2,828	8,05,740	1,45,004	9,50,744	8,63,026	1,35,778	1,45,004		11,34,308		
AGRICULTURAL WORKS.																			
WORKS FOR WHICH FURTHER CAPITAL FOR REVENUE ACCOUNTS ARE KEPT.																			
Bogāri Canals District.																			
Kashmir Band	208	42		245	1,45,587	39,204	1,84,791	38,387	120	2,23,298	826	2,23,624	1,94,994	38,549	326		2,23,860		
Sukkur-Bogāri District.																			
Sukkur-Bogāri Bund	2,852	594	24	3,470	96,577	10,775	1,07,352	23,002	918	1,31,272	1,292	1,32,564	1,20,204	24,538	1,292		1,39,034		
Kāsimpur Bund					1,146	858	12,004	200	8	2,212	246	2,458	2,004	206	246		2,458		
Bunds Rohri District...	601	125	5	731	2,970	2,027	4,997	686	27	6,010	14	6,024	5,593	943	14		6,755		
Total	3,453	719	29	4,201	1,00,993	19,680	1,14,653	23,888	953	1,39,494	1,552	1,41,046	1,18,106	25,529	1,552		1,46,247		
Ghār Canals District.																			
Ghār Bunds					2,138	4,559	6,695	1,439	94	8,228	248	8,476	6,695	1,633	248		8,476		
Western Nara District.																			
Nara Bunds	59,773	12,502	66	72,341	11,943	8,101	19,444	4,067	22	23,533	558	24,091	79,217	16,657	558		96,432		
Bunds north of Kotri.	7,146	1,495	8	8,649	3,185	834	9,419	841	4	4,864		4,869	11,165	2,345			13,513		
Total	66,919	13,997	74	80,990	14,528	8,935	23,463	4,908	26	28,397	558	28,955	90,382	19,005	558		1,09,945		

* Revenue collection charges for Western Nara includes charges for new feeder, Manchar and Aral also.
† Difference of Rs. 1,436 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. 2,050 on the following works having been accounted for erroneously by the Deputy Accountant General under Sukkur Bogāri Bund :-

Kāsimpur Bund ... Rs. 1,049
Bunds Rohri District ... 2,001

§ 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.		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	
AGRICULTURAL WORKS—concluded.																		
WORKS FOR WHICH REVENUE CAPITAL FOR REVENUE ACCOUNTS ARE KEPT—concluded.																		
Karachi Canals District.																		
Bunds, Right Bank ...	84,849	18,157	402	1,03,207	36,384	6,175	42,559	9,129	262	51,980	345	53,233	1,27,207	27,890	345	...	1,55,440	
Bunds, Left Bank ...	1,03,022	21,983	484	1,24,359	65,739	15,077	80,806	17,283	261	98,523	427	99,950	1,83,826	40,084	427	...	2,23,339	
Total ...	1,88,871	40,140	886	2,27,566	1,02,123	21,252	1,23,365	26,412	523	1,50,513	772	1,51,185	3,10,066	67,974	772	...	3,78,779	
Karachi Buildings District.																		
River District ...	94,895	79,417	9,933	1,84,245	26,490	...	26,490	22,169	2,773	51,432	...	51,432	1,21,383	1,14,292	...	...	2,25,677
Mathematical Instrument Depot ...	...	946	5,723	6,669	...	...	...	...	...	...	...	...	...	6,669	...	...	6,669
Total ...	94,895	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
Nasrat Canals District.																		
Mikaro Bund ...	1,434	371	6	1,811	308	270	578	238	3	1,113	...	1,113	2,316	608	...	...	2,924
Tirohi Bund ...	6,650	1,719	25	8,394	78	179	227	66	1	324	...	324	6,907	1,811	...	...	8,718
Maintaining Bench Marks and Centre Nick line of proposed Rohri-Hyderabad Canal ...	...	...	...	...	508	...	508	151	2	639	...	639	506	133	...	...	639
Canal Chouki at Doolatpur ...	...	...	...	...	613	...	613	159	2	774	...	774	613	161	...	...	774
Bund between Nasrat and Naulakhi ...	...	...	...	...	19	351	370	98	3	468	...	468	370	98	...	...	468
Naulakhi-Bhorthi Bund ...	...	...	...	...	1,540	1,417	2,957	764	11	3,732	...	3,732	2,957	775	...	...	3,733
Indus Survey Marks ...	...	...	...	...	32	...	32	8	...	40	...	40	32	8	...	...	40
Total ...	9,084	2,090	31	10,205	3,094	2,538	5,617	1,452	21	7,090	(a)1,264	7,090	13,701	3,591	(a)1,264	...	17,295	
Hyderabad Canals District.																		
Renwah Bund ...	413	88	25	525	2,506	...	2,506	600	173	3,579	...	3,579	3,218	886	...	...	4,104
Indus Survey Marks ...	16	4	1	21	...	...	...	...	...	...	...	...	16	5	...	...	21
Total ...	429	92	26	546	2,806	...	2,806	600	173	3,579	(a)1,082	3,579	3,234	891	(a)1,082	...	4,125	
Fuleli Canals District.																		
Hajipur Bund ...	11,443	2,438	170	14,048	37,430	...	37,430	7,964	558	45,950	...	45,950	48,573	11,125	...	...	60,998
River Bunds ...	...	...	...	...	20,872	4,467	25,339	5,301	378	31,108	...	31,108	25,339	5,767	...	...	31,106
Total ...	11,443	2,438	170	14,048	58,302	4,467	62,769	13,265	932	77,056	(a)-4	77,056	4,212	16,892	(a)-4	...	91,104	
Total, Agricultural Works ...	3,72,095	1,39,778	16,872	5,28,745	4,56,049	24,000	8,50,649	1,23,060	8,020	6,91,329	3,454	6,94,783	9,22,744	2,97,330	3,454	...	12,23,523	
Indus Right Bank Division.																		
Begari Canals District, Shikarpur Canals District ...	74,404	9,437	943	84,784	4,04,497	97,889	5,02,379	78,722	3,640	5,84,901	60,139	6,44,940	5,76,738	92,592	60,139	7,745	7,37,170	
Other Canals District, Western Nara District, Karachi Canals District ...	33,901	4,419	5	38,315	2,45,698	40,227	2,85,945	44,244	1,263	3,31,473	40,509	3,71,981	3,19,966	49,931	40,509	887	4,11,133	
Karachi Buildings District ...	88,878	17,907	166	1,06,951	2,36,168	46,264	2,72,433	62,227	1,073	3,22,742	61,989	3,84,411	3,61,310	68,238	61,989	...	4,91,362	
Total ...	2,08,338	44,245	1,860	3,18,993	2,48,380	62,098	2,10,472	39,000	1,672	3,48,234	20,698	3,68,900	5,78,660	83,937	20,698	62	6,62,955	
Indus Left Bank Division.																		
Jamroo Canal District, Eastern Nara District, Nasrat Canals District, Hyderabad Canals District ...	9,393	7,920	246	17,561	1,04,758	53,056	1,57,814	1,33,080	3,383	2,94,237	22,201	3,16,438	1,67,917	1,44,631	22,201	19,740	3,63,759	
Fuleli Canals District ...	13,322	5,371	63	23,756	98,881	30,484	1,29,215	85,318	-340	1,59,233	37,680	1,96,913	1,42,637	40,312	37,680	5,687	2,22,296	
Total ...	27,881	13,296	311	79,067	2,34,336	83,492	2,77,029	1,98,398	1,992	3,22,220	47,874	3,77,094	3,30,499	68,778	47,874	7,073	4,63,223	
GRAND TOTAL ...	7,14,136	2,02,308	18,914	9,35,357	20,42,599	4,40,349	24,91,948	6,18,238	21,678	31,31,914	4,74,120	36,06,034	32,06,033	8,61,123	4,74,120	69,399	46,00,777	

(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 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—concltd.																		
Western Nára District.	Nára New Feeder Western	25,953	4,053	194	30,205	81,861	31,386	1,13,247	17,709	846	1,31,802	54,015	1,85,817	1,39,200	22,907	54,015	...	2,16,023
	Nára	...	...	...	...	...	...	...	...	...	...	195	195	...	...	195	...	195
	Marvi	...	...	...	...	3,003	273	3,276	512	24	3,812	812	4,624	3,276	536	812	...	4,624
	Wahur	...	...	...	...	4,635	182	4,817	753	36	5,606	736	6,342	4,817	78	736	...	6,342
	Pritchard	...	...	...	...	84,676	3,827	98,502	15,404	736	1,14,642	1,890	1,16,532	98,502	16,140	1,890	...	1,16,532
	Dádu Canals	...	...	...	...	2,753	1,300	4,053	634	30	4,717	2,845	7,565	4,053	694	2,343	...	7,565
	Phitta Canal	...	...	...	...	3,064	587	3,651	571	27	4,249	1,820	6,069	3,651	598	1,820	...	6,069
	Manohar	...	...	...	...	...	...	...	...	...	...	2,209	2,209	...	...	...	...	2,209
	Aral	...	...	...	...	...	...	...	...	...	...	1,209	1,209	...	...	...	...	1,209
	Canals north of Kotri	6,196	969	47	7,212	5,438	1,899	7,337	1,148	69	8,540	588	9,128	13,533	2,219	689	...	16,340
	Virah Bund	...	...	...	...	3,393	110	3,443	593	26	4,037	...	4,007	...	...	...	...	4,007
	Total	32,149	5,027	241	37,417	1,98,782	39,564	2,38,326	37,269	1,780	2,77,375	68,322	8,43,697	2,70,475	44,317	66,322	...	3,81,114
Korfoli Canals District.	Kalri	201	24	1	226	20,567	2,803	23,170	2,802	145	26,117	1,517	27,634	23,371	2,972	1,517	...	27,634
	Baghar	4,031	488	25	4,544	35,911	6,493	42,344	5,121	264	47,729	3,040	50,769	46,375	5,898	3,040	...	55,313
	Indus Canals Right Bank	50	6	...	56	18,666	1,432	20,098	2,411	126	22,655	1,268	23,923	20,148	2,568	1,268	...	25,979
	Pinyri	17,831	2,163	111	20,105	56,197	10,723	66,920	8,094	418	75,432	10,919	86,351	84,901	10,789	10,919	...	1,08,506
	Indus Canals Left Bank	15,812	1,912	99	17,823	27,085	2,773	29,858	3,611	186	33,655	5,348	34,003	45,670	5,808	5,348	...	56,826
	Total	37,975	4,593	236	42,804	1,58,426	23,964	1,82,390	22,059	1,139	2,08,588	22,692	2,27,680	2,20,365	28,027	22,392	...	2,70,484
Morot Canals District.	Mehrabwáh	...	...	...	...	15,703	1,662	17,365	4,282	205	21,852	1,951	23,803	17,365	4,487	1,951	...	23,803
	Naulákhí	2,069	510	25	2,604	24,747	5,044	29,791	7,349	352	37,489	8,100	45,596	31,860	8,233	8,100	...	48,202
	Dambro	...	...	...	...	6,141	8,620	9,761	2,407	116	12,283	2,228	14,509	9,761	2,522	2,228	...	14,509
	Other Canals	...	...	...	...	7,191	1,510	8,701	2,146	103	10,950	1,919	12,869	8,701	2,249	1,919	...	12,869
	Total	2,089	510	25	2,604	53,782	11,836	65,618	16,181	775	82,374	14,205	98,779	67,687	17,391	14,205	...	98,383
Hyderabad District.	Oháro Mahmúdo	1,299	525	5	1,829	35,279	6,093	39,342	15,890	163	55,395	10,474	65,839	40,641	16,583	10,474	...	67,698
	Karl Shunáli	1,748	706	7	2,461	3,094	4,054	7,138	2,832	37	10,050	4,503	14,553	8,866	3,615	4,503	...	17,014
	Nasir	...	...	...	...	18,853	3,127	16,980	6,358	70	23,908	4,202	28,110	16,980	6,928	4,202	...	28,110
	Renwáh	170	69	1	240	2,737	...	2,737	1,109	11	3,854	84	3,937	2,907	1,187	83	...	4,177
	Other Canals	...	...	...	...	1,200	...	1,200	517	5	1,802	707	2,509	1,280	522	...	...	2,509
	Total	3,270	1,300	13	4,530	54,233	13,244	67,477	27,253	279	95,009	19,969	1,14,978	70,694	28,845	19,969	...	1,19,508
Indel Canals District.	Other Canals	...	...	...	...	19,276	2,608	21,884	6,245	201	28,333	4,067	32,400	21,884	6,449	4,067	...	32,400
	Total, Minor Works, Revenue Accounts only.	1,37,537	17,749	516	1,55,802	5,78,828	1,08,518	6,88,846	1,20,313	4,179	8,11,393	1,60,599	8,71,937	8,24,383	1,42,757	1,60,599	...	11,27,739
AGRICULTURAL WORKS.																		
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																		
Begári Canals District.	Kashmir Bund	450	97	1	548	1,01,772	41,387	1,43,159	30,953	352	1,74,464	751	1,75,215	1,43,609	31,408	751	...	1,75,763
Shikápur Canals District.	Sukkur-Begári Bund	7,720	1,695	83	9,398	64,815	18,380	83,195	17,186	894	1,01,277	1,510	1,02,787	90,915	19,780	1,510	...	1,12,185
	Káasimpur Bund	...	...	...	...	3,553	1,691	5,244	1,089	56	6,383	24	6,407	5,244	1,189	24	...	6,407
	Bunds Rohri District	14,900	3,078	160	18,138	3,890	3,153	6,843	1,414	74	8,331	435	8,766	21,743	4,728	435	...	26,904
	Total	22,620	4,673	243	27,536	72,158	23,224	95,282	19,685	1,024	1,15,991	1,939	1,17,980	1,17,902	25,625	1,939	...	1,45,486
Ghár Canals District.	Ghár Bund	...	...	...	...	5,478	5,798	11,276	2,424	86	13,789	278	14,064	11,276	2,510	278	...	14,064
Western Nára District.	Nára Bunds	40,204	8,479	50	48,733	24,863	7,932	32,795	6,916	41	39,752	921	40,673	72,890	15,486	921	...	89,406
	Bunds north of Kotri	6,483	1,367	8	7,858	6,947	654	7,601	1,603	9	9,213	...	9,213	14,084	2,987	...	...	17,071
	Total	46,687	9,846	58	56,591	31,810	8,586	40,396	8,519	50	49,965	921	49,886	87,083	18,473	921	...	1,06,477

TABLE VI—concluded.

Canals and Executive Districts.	AVERAGE OF THREE PREVIOUS YEARS.					1913-1914.					LENGTH IN MILES.				
	Cultivation.	Canal Revenue.	Maintenance and Revenue Collection.	Percentage of Expenditure on Revenue.	Cost of Maintenance per acre.	Cultivation.	Canal Revenue.	Maintenance and Revenue Collection.	Percentage of Expenditure on Revenue.	Cost of Maintenance per acre.	Canals.			Bunds.	Total.
											Main Canals.	Branches.	Total.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MINOR WORKS—concluded.	Acres.	Rs.	Rs.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Miles.	Miles.	Miles.	Miles.	Miles.
IRRIGATION AND NAVIGATION—concluded.															
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.															
<i>Canals in Operation—concluded.</i>															
Kalri	20,045	33,014	24,013	72.7	1.2	21,097	26,213	19,685	75.1	0.9	26	66	92	...	92
Baghar	34,270	58,976	39,189	72.6	1.1	36,999	54,910	33,267	60.6	0.9	58	87	155	...	156
Indus Canals Right Bank	28,265	37,163	19,449	52.3	0.7	32,736	44,660	18,862	42.2	0.6	103	8	111	...	111
Karachi Canals District. Pinyari	91,093	1,85,439	1,00,303	54.1	1.1	101,069	1,23,398	94,637	76.7	0.9	51	251	338	...	338
Indus Canals Left Bank	53,953	86,910	47,523	54.7	0.9	51,951	67,957	40,755	60.1	0.3	167	71	238	...	238
Total	227,626	3,96,504	2,30,487	58.1	1.0	243,852	3,17,038	2,07,206	65.4	0.9	465	468	928	...	928
Total, Minor Works, Revenue Accounts only	972,973	24,92,164	8,26,067	33.1	0.8	1,001,148	24,46,141	9,50,744	38.9	0.9	1,308	1,548	2,856	...	2,856
AGRICULTURAL WORKS.															
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.															
Begari Canals District. Kashmir Bund	4,395	10,731	2,24,388	2,001.0	51.1	2,968	6,900	2,23,624	3,311.9	75.4	...	...	...	91	91
Shikarpur Canals District. Sankar-Begari Bund	7,903	21,477	2,41,914	1,126.4	30.6	98	346	1,33,564	36,494.4	1,880.9	...	...	...	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 Kohri Division	377	1,289	8,013	678.9	21.3	1,341	4,080	6,024	147.6	4.3	...	...	...	52	52
Total	9,885	27,023	2,53,874	938.9	26.5	10,452	28,174	1,41,046	500.6	13.5	...	...	...	123	123
Ghar Canal District. Ghar Bunds	778	2,322	9,423	333.9	12.1	973	3,476	9,476	196.4	8.7	...	...	...	46	46
Western Nara Bunds, north of District. Nara Bunds	3,111	10,943	25,769	234.4	8.3	2,697	9,724	24,061	247.7	8.9	...	...	...	91	91
Kotri	437	1,372	5,554	404.3	12.7	...	3	4,364	1,62,133.3	...	...	...	...	6	6
Total	3,543	12,365	31,323	253.3	8.9	2,697	9,727	29,955	227.7	1.7	...	...	...	97	97
Karachi Canals District. Bunds, Right Bank	4,834	7,613	91,072	1,198.3	18.8	4,523	8,453	52,283	618.0	11.6	...	...	...	56	56
Bunds, Left Bank	4,305	7,899	1,14,186	1,445.7	28.5	4,563	7,700	99,950	1,385.1	21.7	...	...	...	96	96
Total	9,139	15,512	2,05,258	1,923.3	23.5	9,076	16,153	1,51,183	936.0	1.7	...	...	...	151	151
Karachi Buildings District. River District ... ..	...	...	...	...	...	...	...	51,432	...	...	...	...	...	...	...
M.I. Depot ... ..	...	372	...	...	...	...	211	...	...	...	...	...	...	...	...
Total ... ..	...	372	...	...	...	...	211	51,432	...	...	...	...	...	...	...
Jamrao Canal District ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastern Nara District ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nasrat Canals District ... ..	...	139	10,272	7,962.8	...	...	19	8,354	48,868.4	...	...	...	...	13	13
Hyderabad Canals District ... ..	...	27	2,237	8,385.2	...	...	12	4,061	38,841.7	...	...	...	...	8	8
Fuleli Canals District ... ..	...	150	57,789	38,528.0	...	...	229	77,053	33,647.1	...	...	...	...	44	44
Total ... ..	...	306	70,298	22,973.2	...	...	289	90,067	84,641.1	...	...	...	...	65	65
Total, Agricultural Works	27,445	69,131	7,94,374	1,149.1	20.3	26,163	66,761	6,94,783	1,056.5	26.6	...	...	...	573	573
Begari Canals District	397,562	8,38,242	5,88,341	69.6	1.5	509,515	10,29,224	6,44,940	62.7	1.3	189	512	700	91	791
Shikarpur Canals District	217,399	6,18,793	4,67,050	26.5	2.1	218,972	6,41,558	3,71,981	58.0	1.7	213	345	568	123	681
Ghar Canals District	326,530	11,78,909	3,06,395	26.0	0.9	333,264	12,63,841	3,00,839	23.8	0.9	140	286	426	46	472
Karachi Canals District	393,491	10,67,841	2,74,847	25.7	0.3	352,969	10,40,405	3,84,411	36.9	1.2	353	327	680	97	777
Western Nara District	260,830	4,36,962	4,59,277	105.1	1.8	2,68,748	3,54,247	3,68,900	104.1	1.4	494	469	963	151	1,114
Karachi Buildings District ... ..	...	372	...	...	...	...	211	51,432	24,375.4	...	...	...	...	...	...
Total	1,525,782	41,40,919	20,90,910	50.5	1.4	1,653,968	4,329,466	21,22,503	49.0	1.3	1,388	1,939	3,327	508	3,835
Jamrao Canal District	219,725	6,72,333	2,87,175	42.7	1.3	232,790	7,39,633	3,16,488	42.3	1.3	117	*520	637	...	637
Eastern Nara District	244,863	6,70,417	1,97,114	29.4	0.8	255,720	6,39,938	1,96,843	30.7	0.8	1165	1119	284	1304	583
Nasrat Canals District	264,912	7,21,778	3,90,030	54.0	1.4	294,877	7,39,278	3,77,004	51.0	1.3	277	1648	925	113	928
Hyderabad Canals District	271,809	5,87,825	1,62,290	27.6	0.6	291,995	5,99,456	1,81,888	30.3	0.6	5264	1650	914	8	922
Fuleli Canals District	417,444	8,99,439	4,03,762	44.9	0.9	424,924	8,48,716	4,11,223	48.6	1.0	198	1,056	1,264	44	1,298
Total	1,438,853	35,51,792	14,40,371	40.5	1.0	1,488,906	35,66,021	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	1.3	3,147,374	78,94,507	36,06,034	45.7	1.1	2,409	4,982	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 rechanneling of the Mithro Canal and its branches and of the protective bunds in connection with the Thar Canal.

‡ Nasrat Canals District.—Increase of 2 miles in Branches over the previous year is due to (1) increase in Dad Canal of 4 miles of Gari Dad excavated during the year, (2) decrease of 6 miles in Nasrat Canal due to 850 miles of Distributary 19 converted into a Karia and made over to Khatodar and 2.21 miles difference found in rechanneling of Distributaries and (3) increase of 4 miles found in rechanneling of Mehrab and Naulakhi branches.

§ Increase of 1 mile in Bunds over the previous year is due to Construction of Tirchi 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 rechanneling and to certain branch Canals formerly shown under Kari Shumali and Nasir being now included in Gharo Mahmudo and Garfraz.

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.
	Taluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MAJOR WORKS.									
PRODUCTIVE WORKS.									
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.									
<i>Canals in Operation.</i>									
Begari Canals District.			Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	
			850	445	1,994	199	*1,615	65	
			795	451	826	83	*669	26	
			353	72	427	43	*346	14	
			Total ...	968	3,247	325	2,630	105	
Shikarpur District.			463	1,042	884	88	796	32	
Jamrao 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 ...	11,885	21,698	2,170	19,528	781	
Eastern Nara District.			308	528	642	64	578	23	
			
			1,879	1,627	...	...	...	...
			68	109	162	16	146	6	
			
			569	727	...	...	...	...
			Total ...	2,991	804	80	724	29	
Total, Major Works ...			37,970	44,197	2,34,945	23,494	2,11,159	8,446	
MINOR WORKS.									
IRRIGATION AND NAVIGATION.									
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation.</i>									
Ghar Canals District.			10	9	576	58	518	21	
			33	31	197	20	177	7	
			Total ...	40	773	78	695	28	
Karachi Canals District.			298	603	1,028	103	925	37	
Hyderabad District.			3	...	3	...	
			18	2	16	1	
			6	1	5	...	
			Total ...	...	27	3	24	1	
Fuleli Canals District.			2,846	6,517	12,019	1,202	10,817	433	
			
			Total ...	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
MINOR WORKS—continued.									
IRRIGATION AND NAVIGATION—concluded.									
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation—concluded.</i>									
Shikarpur District.	Canals	Canals in Rohri	476	227	800	81	719	29	
		Sind Canal...	47	...	225	22	203	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	1,603	64	
Western Nara District.	Canals	Nara ...	1	...	9	1	8	1	
		Manchar ...	...	...	...	...	...	...
		Aral ...	...	...	...	...	...	...
		New Feeder, Western	...	...	...	...	...	...
		Nara ...	...	...	...	...	...	...
		Pritchard Canal ...	...	...	...	...	...	...
		Wahur ...	...	...	...	...	...	...
		Marvi ...	...	...	...	...	...	...
		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 ...	...	...	...	...	...	...
		Naulakhi ...	...	...	...	...	...	...
		Dambro ...	...	...	...	...	...	...
		Other Canals...	...	...	...	...	...	...
		Total ...	...	...	...	...	...	...
Hyderabad Canals District.	Canals	Ghuro Mahmudo ...	371	311	1,324	133	1,191	48	
		Kari Shumali ...	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 ...	...	...	...	...	...	...
		Total ...	...	...	...	...	...	...
Karachi Canals District.	Canals	Kalri ...	212	458	505	51	454	18	
		Baghar ...	250	486	554	58	526	21	
		Indus Canals Right Bank ...	399	780	788	78	710	29	
		Finyari ...	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	428	

Too numerous to mention.

Too numerous to mention.

TABLE VII—concluded.

Canals and Executive Districts,	Particulars of the Lands, the Occupancy Rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.
	Taluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MINOR WORKS—concluded.									
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begári Canals District.	Kashmor Bund	...	22	7	11	1	10	...	
Shikárpur Canals District.	Bunds in Rohri	...	...	...	7	1	6	...	
	Sukkur-Begári Bund	...	2	...	...	...	...	...
	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	533	59	524	20	
Indus Right Bank Division.	Begári Canals District.	...	2,020	975	3,258	326	2,640	105	
	Shikárpur 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	
Indus Left Bank Division.	Jámráo Canal District.	...	24,117	27,311	2,68,372	20,831	1,87,481	7,499	
	Eastern Nára District.	...	2,824	2,991	804	80	724	29	
	Nasrat Canals District	...	8,568	11,855	21,698	2,170	19,523	781	
	Hyderabad Canals District	...	995	1,290	3,555	356	3,199	128	
	Fuleli Canals District.	...	2,846	6,517	12,019	1,202	10,817	433	
	Total	...	39,350	49,904	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	9,891	

Too numerous to mention.

Too numerous to mention.

TABLE VIII.

TABLE

Abstract of Crop Return of Government,

Canals, Districts and Crops.	1909-1910.			1910-1911.			1911-1912.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acrea.	Acrea.	Acrea.	Acrea.	Acrea.	Acrea.	Acrea.	Acrea.	Acrea.
<i>Kharif.</i>									
Rice... ..	...	81,307	81,307	...	87,436	87,436	...	46,762	46,762
Jowári ...	86,706	132,406	169,112	34,552	131,058	165,610	22,452	68,275	90,757
Báji ...	10,782	52,141	62,923	12,520	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 ...	43,809	302,866	351,675	49,088	308,242	357,330	37,217	195,526	232,743
Begári Canals... <i>Rabi.</i>									
Wheat ...	340	38,506	38,846	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	24,529	25,124	72	19,327	19,399
Other Crops ..	51	129,369	129,420	27	119,443	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
<i>Kharif.</i>									
Rice... ..	...	58,354	58,354	...	57,802	57,802	...	40,390	40,390
Jowári ...	37,863	35,990	73,853	43,302	53,768	97,070	35,310	37,549	72,859
Báji ...	6,469	6,913	13,382	4,289	5,822	10,111	4,812	3,709	8,521
Cotton ...	82	320	402	103	313	416	160	446	606
Other Crops ..	878	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
Shikárpur Canals. <i>Rabi.</i>									
Wheat ...	843	67,390	68,233	791	78,635	79,426	636	28,646	29,282
Barley ...	12	355	367	5	385	390	...	248	248
Oil-seeds ...	35	12,325	12,360	18	11,362	11,380	21	2,958	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	678	49,424	50,097
Grand Total.	46,243	225,000	271,243	50,360	260,611	310,971	42,410	139,809	182,219
<i>Kharif.</i>									
Rice... ..	8	233,657	233,665	...	232,469	232,469	...	212,508	212,508
Jowári ...	12,187	27,639	39,826	14,013	43,344	57,357	15,725	31,433	47,208
Báji ...	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	234,472	301,358	19,779	252,062	271,841
Ghár Canals ... <i>Rabi.</i>									
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	421,381
<i>Kharif.</i>									
Rice... ..	...	163,193	163,193	182	160,407	160,589	...	160,671	160,671
Jowári ...	35,414	15,704	51,118	41,658	33,150	74,808	23,797	20,476	44,273
Báji ...	11,704	3,261	14,965	7,573	2,118	9,686	10,965	2,114	13,079
Cotton ...	149	27	176	348	5	351	1,204	110	1,314
Other Crops ..	1,410	2,653	4,063	1,608	3,377	4,980	1,377	3,867	5,244
Western Nára. Total ...	48,677	184,838	233,515	51,362	199,052	250,414	42,343	187,238	229,561

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.	
22,520	11,605	11,605	...	32,187	32,187	...	100	100	...	<i>Kharif.</i>
16,134	103,617	126,137	25,422	160,002	185,424	14	86	100	...	Rice ...
43	92,083	108,222	16,774	74,771	91,545	18	82	100	...	Jowari ...
1,220	86	129	16	595	611	3	97	100	...	Bajri ...
	44,496	45,716	1,622	50,928	52,550	3	97	100	...	Cotton ...
									...	Other Crops ...
39,917	251,892	291,809	43,834	318,483	362,317	12	88	100	63	Total.
										<i>Rabi.</i>
30	44,524	44,554	181	48,082	48,263	...	100	100	...	Wheat ...
1	81	82	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 ...
40	108,071	108,120	10,966	161,748	172,714	6	94	100	32	Total.
39,963	359,963	399,929	54,800	480,231	525,031	10	90	100	100	Grand Total.
										<i>Kharif.</i>
40,929	19,491	19,491	2	27,737	27,739	...	100	100	...	Rice ...
6,650	64,425	105,854	30,461	61,662	92,123	33	67	100	...	Jowari ...
329	10,644	17,294	8,468	9,320	17,788	48	52	100	...	Bajri ...
1,477	668	997	275	755	1,030	27	73	100	...	Cotton ...
	7,990	9,467	1,458	7,622	9,080	16	84	100	...	Other Crops ...
49,385	103,218	152,603	40,664	107,096	147,760	23	72	100	64	Total.
										<i>Rabi.</i>
1,193	50,197	51,390	494	53,145	53,639	1	99	100	...	Wheat ...
6	184	190	5	178	183	3	97	100	...	Barley ...
16	4,169	4,185	4	8,164	8,168	...	100	100	...	Oil-seeds ...
18	13,404	13,422	4	19,334	19,338	...	100	100	...	Other Crops ...
1,233	67,954	69,187	507	80,821	81,328	1	99	100	36	Total.
50,618	171,172	221,790	41,171	187,917	229,088	18	82	100	100	Grand Total.
										<i>Kharif.</i>
16	207,800	207,816	6	217,343	217,949	...	100	100	...	Rice ...
25,849	43,401	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	86	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	33,781	40,281	1	99	100	...	Oil-seeds ...
199	79,845	80,044	296	88,354	89,650	...	100	100	...	Other Crops ...
2,217	146,013	148,230	2,747	173,628	176,375	2	98	100	38	Total.
35,950	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	59	41	100	...	Jowari ...
7,100	3,508	10,608	5,629	1,911	7,240	78	22	100	...	Bajri ...
453	115	568	311	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	41,831	207,094	251,925	19	82	100	60	Total.

Begari Canals.

Shikarpur Canals.

Ghar Canals.

Western Nara.

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.	
Western Nára- contd.	<i>Rabi.</i>										
	Wheat ...	6,555	36,161	42,716	11,801	48,322	60,123	5,375	39,412	44,787	
	Barley ...	217	1,035	1,252	168	2,267	2,435	397	2,111	2,508	
	Oil-seeds ...	2,049	35,120	37,214	2,084	55,959	58,043	1,007	46,779	47,786	
	Other Crops..	1,325	69,377	70,762	401	66,662	66,963	355	73,125	73,480	
	Total ...	10,191	141,693	151,884	14,454	173,110	187,564	7,134	161,427	168,561	
	Grand Total.	58,868	326,531	385,399	65,816	372,162	437,978	49,477	348,665	398,142	
Karachi Canals.	<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	
	Bájrí ...	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	
	Grand Total.	24,674	231,623	256,297	20,064	254,148	274,212	10,202	246,301	256,503	
Indus Right- Bank Division.	<i>Kharif.</i>										
	Rice ...	281	722,842	723,123	300	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	
	Bájrí ...	50,840	68,405	119,245	39,568	58,237	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	183,147	192,155	13,791	220,438	234,229	7,436	140,833	148,269	
	Barley ...	273	14,314	14,587	1,205	13,355	14,560	412	5,635	6,047	
Oil-seeds ...	6,247	117,935	124,182	2,851	134,193	137,049	1,859	103,960	105,819		
Other Crops..	2,003	368,372	370,375	704	359,903	360,607	855	240,912	241,767		
	Total ...	17,531	683,768	701,299	18,551	727,894	746,445	10,562	491,340	501,902	
	Grand Total.	199,614	1,743,063	1,942,677	204,429	1,863,346	2,067,775	161,752	1,435,019	1,596,771	
Eastern Nára...	<i>Kharif.</i>										
	Rice ...	1	113,002	113,003	122	124,084	124,156	280	129,366	129,646	
	Jowári ...	235	150	385	1,345	311	1,656	1,143	247	1,390	
	Bájrí ...	24,583	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	21,801	10,874	22,539	33,433	
	Other Crops..	1,389	336	1,725	1,777	564	2,341	1,070	991	2,061	
		Total ...	31,806	138,120	169,926	29,330	149,865	179,195	26,487	164,169	190,656
	<i>Rabi.</i>										
	Wheat ...	2,082	29,986	32,068	2,019	41,727	43,746	3,362	34,069	37,431	
	Barley ...	36	270	306	59	255	312	56	333	399	
Oil-seeds ...	446	7,137	7,583	328	15,734	16,062	764	7,394	8,168		
Other Crops..	474	9,090	9,564	551	8,523	9,079	547	9,001	9,548		
	Total ...	3,088	46,483	49,521	2,957	66,244	69,199	4,729	50,797	55,526	
	Grand Total.	34,844	184,603	219,447	32,285	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.	
Rabi.										
8,029	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	40,661	48,238	1,882	43,172	50,054	4	96	100	...	Oil-seeds
571	72,296	72,867	567	62,356	62,913	1	99	100	...	Other Crops
11,271	162,474	173,745	15,403	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.
Kharif.										
297	226,202	226,499	126	224,449	224,575	...	100	100	...	Rice
625	106	731	926	322	1,248	74	26	100	...	Jowári... ..
8,494	719	9,213	8,262	3,019	11,281	73	27	100	...	Báji
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
Rabi.										
...	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	17,859	...	100	100	...	Oil-seeds
150	19,767	19,917	501	22,325	22,826	2	98	100	...	Other Crops
154	35,635	35,789	501	50,264	50,765	1	99	100	17	Total
12,621	264,356	276,977	11,771	279,473	291,244	4	96	100	100	Grand Total.
Kharif.										
313	644,351	644,664	134	677,039	677,143	...	100	100	...	Rice
126,365	254,056	380,421	114,981	282,610	397,591	29	71	100	...	Jowári... ..
43,192	109,994	153,186	42,007	91,106	133,113	32	68	100	...	Báji
932	903	1,835	662	1,419	2,081	32	68	100	...	Cotton... ..
9,741	65,138	74,879	8,819	72,225	81,044	11	89	100	...	Other Crops
180,543	1,074,442	1,254,985	166,603	1,124,369	1,290,972	13	87	100	67	Total
Rabi.										
11,659	180,925	192,584	14,769	184,226	198,995	7	93	100	...	Wheat... ..
526	7,506	8,032	917	12,030	12,947	7	93	100	...	Barley... ..
1,800	98,713	100,513	13,139	158,935	172,074	8	92	100	...	Oil-seeds
9:9	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	1,740,548	1,937,365	10	90	100	100	Grand Total.
Kharif.										
596	125,740	126,336	1,167	121,287	122,451	1	99	100	...	Rice
2,279	784	3,063	2,380	936	3,316	72	28	100	...	Jowári... ..
23,734	18,768	45,502	25,074	11,482	36,556	69	31	100	...	Báji
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	164,232	216,945	24	76	100	83	Total
Rabi.										
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.

Western Nára—
contd.

Karachi Canals.

Indus Right
Bank Division.

Eastern Nára.

TABLE

Canals, Districts and Crops.	1909-1910.			1910-1911.			1911-1912.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
<i>Kharij.</i>									
Rice ...	...	15,090	15,090	81	16,496	16,517	8	15,213	15,216
Jowári ...	65,834	35,743	101,577	62,774	39,648	102,422	49,114	32,914	82,028
Bájrí ...	59,090	30,089	89,179	50,885	22,398	73,283	47,791	13,407	61,198
Cotton ...	6,973	11,241	18,214	13,827	33,169	46,996	25,981	41,601	67,582
Other Crops ...	5,502	9,906	15,408	7,086	13,494	20,580	6,093	10,930	17,028
Total ...	137,399	102,069	239,468	134,653	125,145	259,798	123,987	114,065	243,052
<i>Rabi.</i>									
Wheat ...	855	14,761	15,616	752	18,412	19,164	614	12,118	12,762
Barley ...	97	753	850	18	1,811	1,829	38	873	911
Oil-seeds ...	88	30,427	30,515	30	20,035	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.	138,594	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	5,371	...	6,691	6,691
Jowári ...	5,511	807	6,318	6,616	1,189	7,805	6,600	528	7,128
Bájrí ...	140,072	14,825	154,897	126,854	15,843	142,697	123,696	11,593	136,294
Cotton ...	56,454	8,789	65,243	63,075	10,512	73,587	80,861	8,996	89,857
Other Crops ...	8,496	646	9,142	7,319	807	8,126	6,159	762	6,921
Total ...	210,533	29,032	239,565	203,864	33,722	237,586	217,316	23,575	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	2,795
Other Crops ...	168	6,772	6,940	171	7,677	7,848	352	8,139	8,471
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
Jowári ...	1,930	501	2,431	2,595	1,001	3,596	2,387	1,158	3,545
Bájrí ...	88,639	8,189	96,828	78,180	6,915	85,095	57,338	10,057	67,395
Cotton ...	17,153	1,204	18,357	22,680	2,383	25,063	22,037	5,499	27,536
Other Crops ...	6,197	2,149	8,346	6,997	1,650	8,647	5,823	1,595	7,718
Total ...	113,969	246,151	360,120	110,552	249,780	360,332	88,225	269,009	357,231
<i>Rabi.</i>									
Wheat ...	1,971	12,332	14,303	457	9,770	10,227	553	3,979	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 ...	1,934	14,406	16,340	1,943	16,306	18,249	776	20,239	21,015
Total ...	4,553	48,830	53,443	2,640	44,358	46,998	1,826	40,356	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	...	<i>Kharif.</i> Rice ... Jowari ... Bajri ... Cotton ... Other Crops ...
62,878	38,667	101,543	70,798	40,481	111,279	64	86	100	...	
58,988	28,395	85,383	53,008	19,004	72,012	74	26	100	...	
11,803	27,055	38,858	15,399	23,612	41,041	38	62	100	...	
4,114	8,550	12,664	6,274	9,379	15,653	40	60	100	...	
137,783	115,195	252,978	145,494	108,481	253,925	57	43	100	84		Total.
										<i>Rabi.</i> Wheat ... Oil-seeds ... Other Crops ...
1,215	15,954	17,169	463	17,962	18,425	3	97	100	...	
88	995	1,083	19	945	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	153,928	301,908	48	52	100	100	Grand Total.
										<i>Kharif.</i> Rice ... Jowari ... Bajri ... Cotton ... Other Crops ...
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	...	
64,382	8,883	73,265	71,510	9,042	80,552	89	11	100	...	
6,036	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.
										<i>Rabi.</i> Wheat ... Barley ... Oil-seeds ... Other Crops ...
1,182	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	385	8,605	8,990	4	96	100	...	
473	9,020	9,493	280	10,582	10,812	2	98	100	...	
1,837	21,083	22,920	1,176	25,001	26,177	4	96	100	9	Total.
235,351	54,899	290,250	229,687	55,298	284,985	81	19	100	100	Grand Total.
										<i>Kharif.</i> Rice ... Jowari ... Bajri ... Cotton ... Other Crops ...
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	112,298	274,445	386,653	29	71	100	90	Total.
										<i>Rabi.</i> Wheat ... Barley ... Oil-seeds ... Other Crops ...
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	...	
415	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.
107,906	327,211	434,817	117,784	312,917	430,691	27	73	100	100	Grand Total.

Nasrat Canals.

Hyderabad Canals.

Fuleli Canals.

TABLE

Canals, Districts and Crops.	1909-1910.			1910-1911.			1911-1912.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
<i>Kharij.</i>									
Rice ...	3	965	968	...	1,002	1,002	3	2,861	2,884
Jowári ...	974	2,223	3,197	1,080	2,481	3,561	1,296	2,668	3,964
Bájrí ...	19,742	28,490	48,232	17,488	20,398	37,886	13,881	17,879	31,760
Cotton ...	24,720	50,108	74,828	30,841	70,898	101,739	32,040	79,009	111,049
Other Crops ..	1,845	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	106,959	155,296
Jámrdó Canal.									
<i>Rabi.</i>									
Wheat ...	4,646	27,806	32,452	6,225	33,279	39,504	9,763	44,449	54,212
Barley ...	42	208	250	124	477	601	435	1,511	1,946
Oil-seeds ...	608	4,890	5,498	330	2,610	2,940	616	3,064	3,680
Other Crops ..	1,099	6,925	8,024	764	3,509	4,273	2,312	13,437	15,749
Total ...	6,395	39,829	46,224	7,443	39,875	47,318	13,126	62,461	75,587
Grand Total.	53,179	126,758	179,937	58,376	139,805	198,181	61,433	169,450	230,883
<i>Kharij.</i>									
Rice ...	4	367,130	367,134	303	384,674	384,977	326	404,551	404,877
Jowári ...	74,484	39,424	113,908	74,416	44,630	119,046	60,540	37,515	98,055
Bájrí ...	332,156	91,300	423,456	291,129	77,373	368,502	256,426	63,947	320,373
Cotton ...	110,918	86,267	197,185	138,787	130,099	268,886	171,793	157,664	329,457
Other Crops ..	22,929	18,180	41,109	24,703	21,666	46,369	20,297	19,130	39,367
Total ...	540,491	602,301	1,142,792	529,332	658,442	1,187,774	609,322	682,807	1,192,129
Indus Left Bank Division.									
<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	60	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 ..	3,880	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	544,842	892,301	1,437,143	530,821	909,020	1,439,841
<i>Kharij.</i>									
Rice ...	285	1,089,972	1,090,257	603	1,136,791	1,137,394	559	1,078,733	1,079,292
Jowári ...	197,378	251,464	448,842	209,218	305,938	515,206	163,167	195,733	365,905
Bájrí ...	382,936	159,705	542,701	330,697	185,530	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	2,509,104	600,512	1,626,486	2,286,998
Total for Sind.									
<i>Rabi.</i>									
Wheat ...	19,169	272,176	291,345	22,956	332,072	356,028	22,288	244,745	267,033
Barley ...	546	13,201	13,747	1,488	17,329	18,817	1,022	10,414	11,506
Oil-seeds ...	8,462	186,979	195,441	4,455	212,227	216,682	3,817	166,923	170,740
Other Crops ..	5,833	408,556	414,389	4,162	400,125	404,287	4,864	295,471	300,335
Total ...	34,010	885,912	919,922	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	3,504,918	632,573	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.	
...	177	177	...	...	...	...	...	...	...	<i>Kharif.</i>
1,367	4,063	6,329	1,045	2,924	3,969	26	74	100	...	Rice ...
19,037	29,439	48,476	19,348	25,294	44,642	43	57	100	...	Jowári ...
23,910	84,828	113,738	32,807	91,850	124,657	26	74	100	...	Báji ...
884	3,506	4,390	1,109	3,551	4,659	24	76	100	...	Cotton ...
									...	Other Crops ...
50,198	122,912	173,110	54,308	123,619	177,927	31	69	100	74	Total.
										<i>Rabi.</i>
11,024	49,114	60,138	7,008	42,167	49,175	14	86	100	...	Wheat ...
338	856	1,194	138	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	25	Total.
63,561	155,727	249,288	62,788	176,829	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	315,884	76,834	392,718	80	20	100	...	Báji ...
137,526	141,141	278,667	164,641	158,199	322,840	51	49	100	...	Cotton ...
19,635	14,982	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	46,683	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 ...
330,142	208,965	539,107	357,891	167,910	525,801	68	32	100	...	Báji ...
138,458	142,044	280,502	165,303	159,618	324,921	51	49	100	...	Cotton ...
29,376	80,120	109,496	34,064	88,294	122,358	23	77	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	222,576	237,847	6	94	100	...	Oil-seeds ...
3,631	279,691	283,322	7,330	302,963	310,293	2	98	100	...	Other Crops ...
37,172	727,374	764,546	49,407	820,013	869,420	6	94	100	25	Total.
790,322	2,525,288	3,315,610	809,194	2,645,456	3,454,650	23	77	100	100	Grand Total.

TABLE IX.

Rainfall in the Province of Sind for the year 1913-1914.

Collectorates and Districts.		April 1913.	May.	June.	July.	August.	September.	October.	November.	December.	January 1914.	February.	March.	Total, 1913-1914.	Total, 1912-1913.		
		In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.	In. ct.		
Indus Right Bank Division.																	
UPPER SIND FRONTIERS.	Begrri Canals District.	Kashmor	...	...	0 38	0 89	...	...	...	0 17	0 2	0 20	0 1	1 67	0 80
		Kandhot	...	...	0 26	0 63	4 11	...	...	...	...	...	...	5 81	3 13
		Jacobabad	...	...	0 32	0 48	1 47	...	0 40	...	1 30	0 3	0 93	4 08	1 63
		Thul	0 33	2 0	1 76	0 78	...	5 70	0 69	
		Shahdádpur	0 8	8 33	0 47	1 66	0 4	0 79	...	6 37	2 28	
Average		...	...	...	...	...	...	...	...	...	...	...	...	4 91	1 69
Mean average of 10 years														3 10			
SUKKUR COLLECTORATE.	Shikarpur Canals District.	Ubauro	...	...	0 39	0 42	3 27	...	...	...	0 18	...	0 11	4 37	2 11
		Mirpur Mithelo	...	...	1 12	0 23	3 35	...	0 2	...	0 28	...	0 12	5 12	3 6
		Ghotki	...	...	...	1 48	0 37	0 4	...	0 5	...	0 48	...	4 10	4 69
		Rohri	0 90	0 44	0 6	...	0 7	...	1 17	...	0 60	3 23	5 39	
		Shikarpur	0 27	1 54	3 31	0 35	1 20	...	0 67	7 54	1 27	
Average		...	...	...	...	...	...	...	...	...	...	...	...	4 94	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	...	0 34	...	0 2	1 41	1 52	...	...	1 34	...	0 76	5 39	2 41
		Kambar	...	...	...	0 46	1 71	0 90	...	...	1 43	...	0 70	8 25	1 76
		Bakrani	2 34	0 63	1 49	...	0 64	0 12	5 2	2 23	
		Warrah	0 1	1 07	1 7	1 39	...	0 60	...	4 70	1 82	
Average		...	...	...	...	...	...	...	...	...	...	...	...	5 15	2 4
Mean average of 10 years														3 13			
WESTERN NARA COLLECTORATE.	Western Nara District.	Mehar	...	...	0 6	2 14	0 86	...	...	...	1 63	...	0 66	6 19	2 31
		Khairpur Nathausah.	...	...	0 1	2 89	1 42	...	...	...	1 99	...	0 71	6 04	1 84
		Dadu	...	...	0 27	6 40	1 37	...	...	...	1 60	...	0 71	10 25	2 61
		Johi	0 33	4 81	4 5	1 40	...	0 86	...	11 45	2 94	
		Schwan	0 9	7 2	1 28	0 16	1 37	...	0 70	0 8	10 70	4 7	
Average		...	...	...	...	...	...	...	...	...	...	...	...	13 87	5 96
Mean average of 10 years														3 70			
KARACHI COLLECTORATE.	Karachi Canals District.	Bul Khan's Thano	...	...	0 24	17 10	9 37	0 73	...	0 6	0 49	...	1 07	29 06	15 14
		Jerruck	...	...	0 1	12 93	5 33	2 17	...	...	0 29	...	0 64	21 36	3 2
		Tatta	...	...	0 2	25 93	10 33	1 41	...	0 4	0 10	...	0 7	37 90	6 84
		Sakro	20 17	6 58	0 69	0 5	...	1 9	0 11	28 60	4 21	
		Kotri Ghorabari	19 35	15 65	0 4	...	0 69	...	36 13	2 4	
Average		...	...	...	...	...	...	...	...	...	...	...	...	31 29	5 11
Mean average of 10 years														10 2			
Average for Indus Right Bank Division														11 63	3 12		
Indus Left Bank Division.																	
TELE AND PAKAR COLLECTORATE.	Jamrao Canal District.	Mirpur Khas	...	...	0 62	11 70	2 74	4 44	...	0 4	0 35	...	0 27	20 13	6 87
		Jamrao Canal	3 60	1 61	1 35	0 62	...	0 32	...	7 80	3 72	
		Sinjhero	0 3	7 25	0 72	2 31	0 45	...	0 27	...	11 8	1 19	
		Average		12 82	3 93
		Mean average of 10 years														8 5	
EASTERN NARA COLLECTORATE.	Eastern Nara District.	Umarkot	...	...	1 43	5 70	6 64	12 48	...	...	0 7	...	0 35	26 67	7 91
		Mithi	1 70	13 97	18 18	7 7	0 11	...	0 6	41 9	11 14	
		Chachro	...	0 2	2 33	5 37	8 19	10 01	0 10	...	0 18	0 2	26 82	8 25	
		Nagar Paykar	1 1	15 35	15 59	6 62	...	0 3	...	0 16	...	1 1	39 52	15 49	
		Khipra	1 86	6 29	2 56	6 34	0 16	...	0 32	...	17 63	8 95	
Average		...	...	...	...	...	...	...	...	...	...	...	...	27 10	9 44
Mean average of 10 years														8 65			
NARAT COLLECTORATE.	Narat Canals District.	Nawabshah	...	...	0 10	11 50	8 19	0 68	...	...	1 3	...	0 28	16 77	1 42
		Kandiara	1 47	0 61	1 09	...	0 31	...	4 35	4 9	
		Nausahro	0 85	4 0	0 60	0 3	1 63	...	0 25	...	7 64	4 63	
		Tharusah	2 87	1 15	0 10	1 94	...	0 33	...	6 30	4 42	
		Moro	4 10	0 70	1 10	1 53	...	0 45	...	7 89	7 2	
Average		...	...	...	...	...	...	...	...	...	...	...	...	8 59	4 40
Mean average of 10 years														4 48			
HYDRABAD COLLECTORATE.	Hyderabad Canals District.	Sakrand	...	...	1 69	11 40	2 12	0 75	...	...	1 8	...	0 44	17 39	3 76
		Shahdádpur	0 5	8 97	0 55	1 80	...	0 3	0 74	...	0 36	...	12 60	5 93	
		Hala	0 15	12 45	0 93	2 10	0 66	...	0 68	...	14 5	6 79	
		Tando Adam	0 15	13 63	0 91	5 13	...	0 3	0 42	...	0 40	...	17 68	8 3	
		Tando Ahalayar	12 90	2 9	6 64	0 3	...	0 83	...	21 89	8 02	
Average		...	...	...	...	...	...	...	...	...	...	...	...	17 24	7 3
Mean average of 10 years														7 14			
HYDRABAD COLLECTORATE.	Fuleli Canals District.	Hydembad	0 9	13 21	2 70	3 47	0 23	...	0 60	0 31	20 61	6 4	
		Dero Mohbat	0 6	10 11	2 87	8 5	0 15	...	0 64	...	21 89	5 53	
		Tando Bago	0 45	14 93	4 15	5 7	0 6	0 13	...	0 71	...	25 60	8 2
		Badin	1 63	21 28	8 96	6 6	0 2	0 9	...	0 44	...	38 51	8 46
		Tando Mahomed Khan	0 0	10 37	2 27	4 65	0 34	...	0 66	...	18 35	4 11	
Average		...	...	...	...	...	...	...	...	...	...	...	...	25 1	6 44
Mean average of 10 years														9 53			
Average for Indus Left Bank Division														18 15	6 25		
Mean average of 10 years for Indus Left Bank Division														7 41			

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

Works.	To end of 1912-1913.	During 1913-1914.	To end of 1913-1914.	Remarks.
MAJOR WORKS.				
<i>Productive Works.</i>				
Desert Canal	15,26,511	70,157	15,96,668	
Unharwáh	14,465	782	15,247	
Begári Canal	18,29,658	57,411	18,87,069	
Mahiwáh	66,379	4,310	70,689	
Eastern Nára Works	4,91,223	24,324	5,15,547	
Jámráo Canal	1,44,476	9,428	1,53,899	
Dád Canal	2,41,908	23,567	2,65,475	
Nasrat Canal	18,232	1,665	19,897	
Total	43,32,852	1,91,639	45,24,491	
MINOR WORKS AND NAVIGATION.				
<i>Works for which Capital and Revenue Accounts are kept.</i>				
Sukkur Canal	2,04,971	9,381	2,14,352	
Ghár Canal	10,32,037	49,104	10,81,141	
Sattah Canal	2,684	106	2,790	
Alibhar Kacheri Canal	98,034	3,894	1,01,928	
Márák Great Canal	5,55,946	21,707	5,77,653	
Sarfrazwáh	3,12,693	6,873	3,19,566	
Fuleli Canal	47,01,236	1,90,435	48,91,671	
Hassanali Canal	12,296	1,770	14,066	
Total	69,19,897	2,83,270	72,03,167	
<i>Works for which only Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	63,632	...	
Western Nára District ... ..	...	56,875	...	
Karáchi Canals District ... ..	...	9,560	...	
Nasrat Canals District ... ..	...	10,199	...	
Hyderabad Canals District ... ..	...	65,829	...	
Fuleli Canals District ... ..	...	6,320	...	
Total ... ..	...	2,12,415	...	
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	14,145	...	
Ghár Canals District ... ..	...	179	...	
Karáchi Canals District ... ..	...	874	...	
Total ... ..	...	15,198	...	

R. A. O'CONNOR,
Deputy Accountant General.

Statement showing Actual Receipts during 1913-14 on account of Irrigation Share of Land Revenue from Canals in Sind.

MAJOR WORKS.				Gross Irrigation Share of Land Revenue.	Deduct $\frac{3}{8}$ th of Cash Refunds of Land Revenue in the Civil Department.	Net Irrigation share of Land Revenue.
<i>Productive Works.</i>				Rs.	Rs.	Rs.
Desert Canal	...	...	...	2,38,599	.....	2,38,599
Unharwáh	...	...	...	1,27,984	.....	1,27,984
Begári Canal	...	...	...	5,33,641	.....	5,33,641
Mahiwáh	...	...	...	1,49,118	.....	1,49,118
Eastern Nára Works—						
Mithrao Canal	...	...	...	3,37,938	.....	3,37,938
Nára Canal	...	...	...	57,922	.....	57,922
Thar do.	...	...	...	1,57,376	.....	1,57,376
Khipra Canal	...	...	...	4,863	.....	4,863
Hiral Canal	...	...	...	48,498	.....	48,498
Hiran do.	...	...	...	2,075	.....	2,075
Nára Supply Channel	...	...	...	10,776	.....	10,776
				6,19,448	.....	6,19,448
Jámráo 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
Márák Great Canal	...	...	...	1,65,639	.....	1,65,639
Sarfrázwáh 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

Statement of Highest Readings on Bukkur and Kotri gauges from 1880 to 1913.

Year.	Bukkur.		Kotri.		Remarks.
	Date.	Highest reading.	Date.	Highest reading.	
1880	8th July	Feet. 14·9	14th August	Feet. 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	16·8	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, Karachi, ^{28th}/_{29th} January 1915.

Submitted to Government together with a comparative statement showing the area irrigated and the assessment thereon for the three years ending 1913-14 and the average of the three years ending 1912-13.

Irrigation Revenue Report of
the Province of Sind for 1913-14.

2. The inundation compared with that of the previous year was unfavourable. The river rose late, its level constantly fluctuated, and was particularly low at the end of July, when water is most required. The first rise began in the latter part of May, but owing to fluctuations the fair irrigating level of 13' at the Bukkur gauge was not reached until the 2nd August. This level was maintained upto the 17th August (for 16 days only as compared with 31 days in the previous year and 43 days, the average of the previous 10 years); on the 18th the river fell to 10.9 feet and thereafter, except for a few days, continued to fall till the end of the season. This sudden fall at a time when the kharif crops were in need of a final watering would have had disastrous results but for timely and copious rainfall in July and August. The fair irrigating level of 17 feet at the Kotri gauge was first registered on the 17th June and was maintained for 66 days as compared with 59 days in the previous year and 66 days, the average of the previous 10 years. Except in the delta portions of the Karachi 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	+ 65,316
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.	13,383
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 Karáchi 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, Kuria 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 Tirohi bunds in the Nasrat Canals District.

8. The subjoined statement shows the expenditure on maintenance and repairs during the year as compared with that in the previous year and the average figure of the three preceding years :—

	1913-14.	1912-13.	Average of three years ending 1912-13.
	Rs.	Rs.	Rs.
Right Bank	21,22,503	22,26,159	21,65,614
Left do.	14,83,531	14,47,521	14,40,371

Of this the actual cost of clearance and repairs of "works" was as follows :—

	1913-14.	1912-13.	Average of three years ending 1912-13.
	Rs.	Rs.	Rs.
Right Bank	12,90,559	13,28,738	12,72,951
Left do.	7,52,040	7,18,646	7,12,324

9. The following table shows the area cultivated with the principal crops as compared with the figures of the previous year and the average of the past three years :—

	1913-14.	1912-13.	Average of the three years ending 1912-13.
	Rs.	Rs.	Rs.
Rice	10,82,263	10,67,508	10,94,732
Jowári	5,29,857	5,04,451	4,59,520
Bájri	5,25,831	5,89,107	4,87,625
Cotton	3,24,921	2,80,502	2,94,088
Wheat	3,05,538	3,13,762	3,12,274
Barley	15,742	12,802	14,375
Oil-seeds	2,37,847	1,54,660	1,80,694

R. P. BARROW,
Commissioner in Sind.

To

THE SECRETARY TO GOVERNMENT,
PUBLIC WORKS DEPARTMENT, BOMBAY.

STATEMENT.

н 1275-19

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

Year.	GOVERNMENT LANDS.						
	Indus Right Bank Division.			Indus Left Bank Division.			Kharif.
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1911-1912 ...	1,013,852	193,575	1,207,427	1,037,991	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.	Rs.
1911-1912 ...	31,53,051	7,44,804	38,97,855	31,71,849	5,92,054	37,63,903	63,24,900
1912-1913 ...	34,08,144	8,73,637	42,81,781	34,06,338	5,47,111	39,53,449	68,14,482
1913-1914 ...	35,31,471	10,48,409	45,79,880	32,80,250	5,10,977	37,91,227	68,11,721
Average of 3 years ending 1912-1913.	34,32,197	9,47,126	43,79,323	32,31,839	5,68,943	38,00,782	66,64,036

Year.	FOREIGN LANDS.					
	Indus Right Bank Division.			Indus Left Bank Division.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1911-1912 ...	25,334	18,144	43,478	.....	.....	.....
1912-1913 ...	36,334	19,381	55,715	.....	.....	.....
1913-1914 ...	56,276	13,160	69,436	.....	.....	.....
Average of 3 years ending 1912-1913.	36,966	20,523	57,489	.....	.....	.....
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1911-1912 ...	68,176	30,763	98,939	.....	.....	.....
1912-1913 ...	48,869	33,942	82,811	.....	.....	.....
1913-1914 ...	60,339	27,207	87,546	.....	.....	.....
Average of 3 years ending 1912-1913.	64,999	35,686	1,00,685	.....	.....	.....

1911-1912, 1912-1913 and 1913-1914, together with the average of the three years ending 1913-1912.

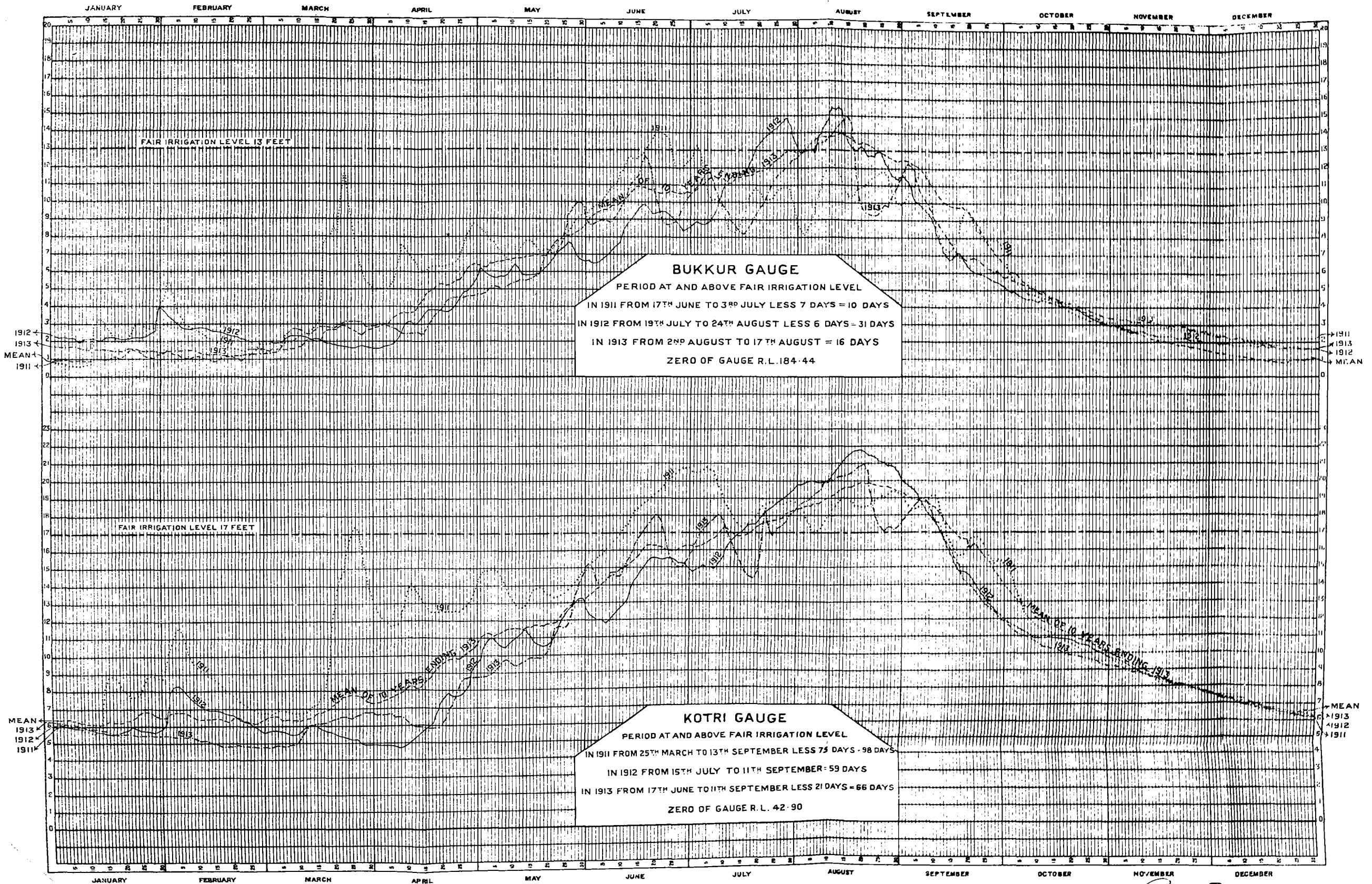
		JAGHIR LANDS.								
Total.		Indus Right Bank Division.			Indus Left Bank Division.			Total.		
Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
<i>ea.</i>										
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
897,726	2,499,569	55,686	13,807	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	60,931	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.
13,36,853	76,61,758	19,492	3,459	22,951	51,619	6,829	58,448	71,111	10,283	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	6,863	27,667	48,127	5,143	53,270	63,926	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	497,750	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
1,223,720	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	78,42,023
34,78,266	9,12,505	43,90,771	34,56,922	5,51,394	40,08,316	63,35,188	14,63,899	83,99,087
36,12,609	10,82,434	46,95,093	33,28,377	5,16,120	38,44,497	69,40,965	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 Charge

HYDROGRAPH OF THE RIVER INDUS AT BUKKUR AND KOTRI



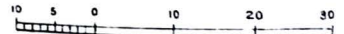
Ch. Harrison
 CHIEF ENGINEER
 INDUS RIVER COMMISSION.

INDEX MAP

OF SIND

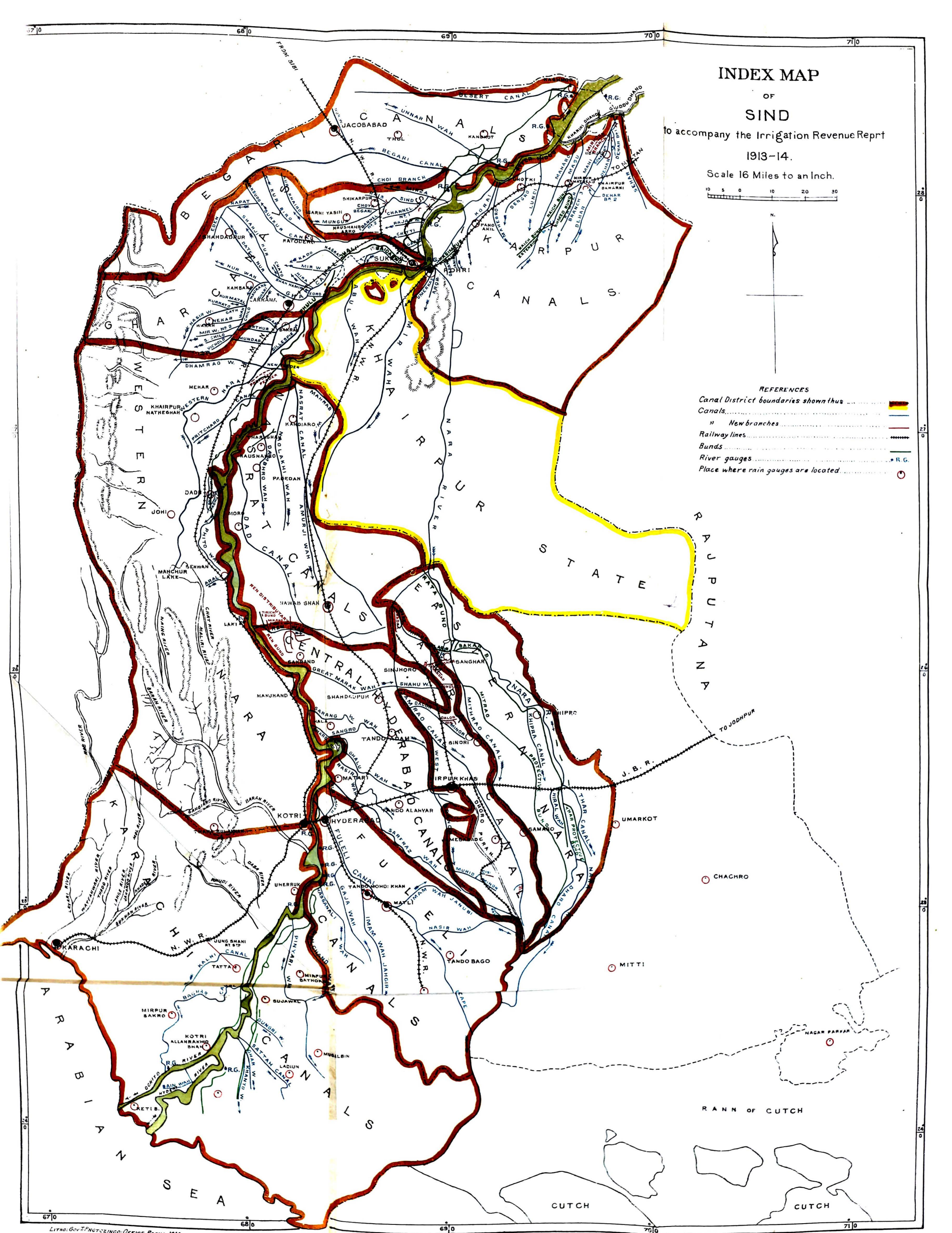
to accompany the Irrigation Revenue Reprt
1913-14.

Scale 16 Miles to an Inch.



REFERENCES

- Canal District boundaries shown thus ———
- Canals ———
- " New branches ———
- Railway lines ———
- Bunds ———
- River gauges ● R.G.
- Place where rain gauges are located ○



LITHO. GOV. PRINTING OFFICE, POONA, 1914.

R. E. ...

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

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

The minus figure under net revenue against Agricultural Works is due to the cost of maintenance of the Protective River embankments being included under the head—Working Expenses.

4. The information contained in Statement E, included by the Superintending Engineers, in their Divisional Reports under paragraph 13, is grouped together as shown below :—

Total area irrigated by all classes of works.	Total working expenses and maintenance for canals.	Rate of working expenses per acre of area irrigated (column 2+ column 1.)	Expenditure on Agricultural works (excluding the cost of surveys for special projects.)	Rate of expenditure on Agricultural works per acre of area irrigated (column 4+ column 1.)	Total Working expenses per acre of area irrigated including expenditure on Agricultural works (column 3+ column 5).
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
3,147,274	33,77,249	1'07	11,58,391	0'37	1'44

The whole cost per acre of irrigation in Sind must include as shown above, the expenditure on river embankments as these have to be maintained in order to protect the area of cultivation from floods.

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

	Gross Revenue.	Working expenses.	Net Revenue.
	Rs.	Rs.	Rs.
1908-09	80,39,031	37,65,951	42,73,080
1909-10	78,29,012	40,42,671	37,86,341
1910-11	82,84,130	42,59,535	40,24,595
1911-12	74,19,419	40,32,299	33,87,120
1912-13	79,80,904	43,29,549	36,51,355
1913-14	80,98,144	45,96,140	35,02,004

The net profit 35,02,004 shows a falling off of nearly 1½ lakhs of rupees when compared with the previous year while it shows an increase of more than 1 lakh when compared with 1911-12.

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

	Rs.
Major Works	2,68,94,586
Minor Works	48,37,619
	<u>3,17,32,205</u>

The net revenue for the year on the above capital expenditure amounted to Rs. 27,00,551, which is equal to 8.51 per cent. The percentages in the previous years were as follows :—

1910-11	9.12
1911-12	7.25
1912-13	7.51

The Major Works show a return of 5.39 against 4.50 of the last year. The Minor Works—Capital show a return of 25.83 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

ANNUAL IRRIGATION REVENUE REPORT,

SIND,

1914-1915.

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No. 7552 of 1915.

PUBLIC WORKS DEPARTMENT.
SUPERINTENDING ENGINEER'S OFFICE,
INDUS RIGHT BANK DIVISION,
Camp Larkana, 20th December 1915.

FROM

B. KRISHNARAO, ESQUIRE,
Superintending Engineer ;
Indus Right Bank Division,

TO

THE CHIEF ENGINEER IN SIND.

Subject:—Annual Irrigation Revenue Report for 1914-15.

SIR,

With reference to Government Resolution No. W. I.-5362 of the 7th May 1915, I have the honour to forward herewith the Revenue Report for Irrigation Works in this Division for the year 1914-15.

2. Crop Return VIII-A will follow.

I have the honour to be,

Sir,

Your most obedient servant,

B. KRISHNARAO,
Superintending Engineer, Indus Right Bank Division.

Accompaniments:—

Annual Irrigation Revenue Report.

Tables I to IX.

Through

THE SUPERINTENDING ENGINEER, INDUS LEFT BANK DIVISION.

ANNUAL IRRIGATION REVENUE REPORT.

INDUS RIGHT BANK DIVISION,

1914-1915.

The inundation of 1914, as described in the Irrigation Administration Report for 1914-15, and under para. 21 of this report, was exceptionally favourable.

The diagram sent in advance of the report compares the inundation of 1914 with those of the previous two years and with the average 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 of 10 years including 1913.	Average for 3 years including 1913.	1913.	1914.
		Days.	Days.	Days.	Days.
Gauges:—					
Bukkur, 10 feet and over	...	84	67	60	92
Do. 13 do.	...	39	19	16	45
Kotri 14 do.	...	118	118	114	136
Do. 17 do.	...	68	73	66	100
Irrigation:—					
Kharif	...		Acres.	Acres.	Acres.
Rabi	...		1,218,609	1,290,971	1,303,152
	...		292,703	367,397	524,472
	Total	...	1,506,312	1,658,368	1,827,624
Revenue:—					
Gross Irrigation Revenue realized	...		Rs.	Rs.	Rs.
Working expenses	...		41,15,448	43,97,242	48,82,832
	...		25,99,033	28,76,396	25,52,077
Net Revenue, neglecting simple interest	...		15,16,415	15,20,846	23,30,755

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
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Average 3 years including 1913-14	336,141	299,541	561,292	16,635	877,468	1,213,609
Kharif ...	123,517	36,196	124,417	8,573	169,186	292,703
Rabi ...						
Total ...	459,658	335,737	685,709	25,208	1,046,654	1,506,312

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
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
1913-14 ...	{ Kharif ...	403,236	302,479	569,807	15,449	887,735	1,290,971
	{ Rabi ...	160,386	45,933	150,364	10,714	207,011	867,397
	Total ...	563,622	348,412	720,171	26,163	1,094,746	1,658,368
1914-15 ...	{ Kharif ...	420,398	305,839	554,497	22,418	882,754	1,308,153
	{ Rabi ...	204,263	60,158	244,380	15,671	320,209	524,472
	Total ...	624,661	365,997	798,877	38,089	1,202,963	1,822,624
Increase or decrease compared with average.	{ Kharif ...	84,257	6,298	-6,795	5,783	5,286	89,543
	{ Rabi ...	80,746	23,962	119,963	7,098	151,023	231,769
	Total ...	165,003	30,260	113,168	12,881	156,309	321,312
Increase or decrease compared with 1913-14.	{ Kharif ...	17,162	3,860	-15,310	6,969	-4,981	12,181
	{ Rabi ...	43,877	14,225	94,016	4,957	113,198	157,075
	Total ...	61,039	17,585	78,706	11,926	108,217	169,256

The statement shows that the area under both Kharif and Rabi are in excess of the previous year's areas and the areas of the average of the previous triennium by total cultivation of 169,256 and 321,312 acres, respectively.

3. The area of "Dubari" or twice-cropped land, which is not included in statement A, was 360,788 acres.

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

Assessment—Government,
Foreign and Jagir.

STATEMENT B.

Year and class of crops.	MAJOR WORKS.		MINOR WORKS AND NAVIGATION.			Grand total.	
	Productive works.	Works for which Capital and Revenue Accounts are kept.	Works for which only Revenue Accounts are kept.	Agricultural works.	Total.		
							1	2	3	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Average of 3 years including 1913-14.	{ Kharif ...	7,31,673	11,19,901	15,55,320	37,140	27,12,361	34,44,034
	{ Rabi ...	2,94,136	2,02,228	4,04,357	23,781	6,30,366	9,24,502
	Total ...	10,25,809	13,22,129	19,59,677	60,921	33,42,727	43,68,536
1913-14 ...	{ Kharif ...	8,97,436	11,67,685	15,15,173	32,727	27,15,585	36,13,021
	{ Rabi ...	3,54,930	2,38,012	4,57,400	31,730	7,27,142	10,82,072
	Total ...	12,52,366	14,05,697	19,72,573	64,457	34,42,727	46,95,093
1914-15 ...	{ Kharif ...	9,53,755	11,69,830	15,26,171	41,159	27,37,160	36,90,915
	{ Rabi ...	5,23,542	2,81,161	7,31,264	45,288	10,57,713	15,81,255
	Total ...	14,77,297	14,50,991	22,57,435	86,447	37,94,873	52,72,170
Increase or decrease compared with average.	{ Kharif ...	2,22,082	49,929	-29,149	4,019	24,799	2,46,881
	{ Rabi ...	2,29,406	78,933	3,26,907	21,507	4,27,347	6,56,753
	Total ...	4,51,488	1,28,862	2,97,758	25,526	4,52,146	9,03,634
Increase or decrease compared with 1913-14.	{ Kharif ...	56,319	2,145	10,998	8,432	21,575	77,894
	{ Rabi ...	1,68,612	43,149	2,73864	13,558	3,30,571	4,99,183
	Total ...	2,24,931	45,294	2,84,862	21,990	3,52,146	5,77,077

The total net assessed revenue as compared with the previous year and the average of the previous triennium was more by Rs. 5,77,077 and 9,03,634, respectively.

4 (a). The area cultivated on "spill" water from the river was 137,897 acres as compared with 53,673 acres in the previous year.
Cultivation on spill.

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 :—
Assessment rate per acre on Government land.

	Average of previous 3 years.	1914-15.	1913-14.
	Rs.	Rs.	Rs.
Major Works—Productive	2.40	2.59	2.45
Works for which Capital and Revenue accounts are kept.	4.15	4.22	4.23
Works for which only Revenue accounts are kept ...	3.02	2.98	2.88
Agricultural works	2.75	2.58	2.83
Average for all works	3.08	3.09	3.10

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 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 3 years	Rs. 39,79,137	Rs. 72,367	Rs. 63,944	Rs. 41,15,448	Rs. 1,96,210
1913-14	42,59,611	72,942	64,689	43,97,242	1,28,366
1914-15	47,39,012	78,513	65,308	48,82,832	1,46,073
Increase or decrease as compared with the average ...	7,59,875	6,115	1,364	7,67,364	-50,137
Increase or decrease as compared with 1913-14 ...	4,79,401	5,570	619	4,85,590	17,707

The balance outstanding at the end of the year shows an increase of Rs. 17,707 when compared with the previous year, and a decrease of Rs. 50,137 when compared with the average of the previous three years.

7. The remissions granted during the year amounted to Rs. 4,12,863, of which Rs. 3,21,978 were on Kharif and Rs. 90,885 on Rabi. The total remissions are less than that of last year by Rs. 1,420 and more by Rs. 35,606 than the average of the previous triennium.
Remission on Government land.

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

Causes of remissions.	1914-15.			1913-14.			Difference.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Deficiency of water	54,986	1,12,511	- 57,525						
Breaches in canals	14,804	1,372	+ 13,432						
Blight or mahalo	19,765	594	+ 19,171						
Wireworms or insects	26,889	28,441	- 1,552						
Frost	2,101	5,699	- 3,598						
Locusts	3,725	705	+ 3,020						
Rats ... ..	...	405	- 405					
Kalar soil	12,893	9,519	+ 3,374						
Other causes	19,107	51,403	- 32,296						
Inundation	2,37,004	1,96,160	+ 40,844						
Erosion	3,783	255	+ 3,533						
Adverse winds	26,164	27,764	- 1,600						
Total	4,21,226	4,34,528	- 13,602						

Remission on Jagir lands. 7 (a). No remissions on Jagir lands were granted.

7 (b). Remissions on lands in Foreign territory (Khelat) amounted to Rs. 8,363, of which Rs. 4,400 were on account of Remissions on Foreign lands. Kharif and Rs. 3,963 for Rabi.

8. The difference between the "Hakabo" assessed on Foreign and Jagir cultivation, and the full rate of assessment for these areas amounted to Rs. 4,23,319. This amount represents the loss of canal revenue during the year due to the low rate at which water is allowed to jagirdars and to zamindars in Khelat. Loss to canals, Foreign and Jagir lands.

9. The total charge of the year, on account of Maintenance and Repairs amounted to Rs. 20,32,024 and is divided as under :— Expenditure on Maintenance and Repairs and Establishment charged to Works.

	Rs.
Works	14,49,763
Establishment and Tools and Plant	2,86,022
Percentage charges for revenue collection	2,96,239
Total	20,32,024

The cost of establishment charged to works which is included in the expenditure on works was Rs. 2,70,877. The net expenditure on works (clearance and repairs) was Rs. 11,78,886, and compared with the previous year it shows a decrease of Rs. 1,11,673.

The charges on account of Establishment and Tools and Plant during the year amounted to Rs. 2,86,022, showing a decrease of Rs. 2,782 as compared with those of the previous year.

10. Of the total charges shown in the preceding paragraph, Rs. 11,43,965 were spent on canals and Rs. 5,88,059 on river embankments. Expenditure on maintenance separately for canals and river embankments.

11. The outlay of the year on new works was Rs. 6,66,191 as under:—

		Rs.	
Major Works	...	{ Capital	... 1,60,476
		{ Revenue	... 33,106
Works for which Capital and Revenue accounts are kept.		{ Capital	... 1,736
		{ Revenue	... 2,030
Works for which only Revenue accounts are kept	...		... 1,48,668
Agricultural works	... ..		... 3,20,175
		Total	... 6,66,191

Under Major head "Capital," representing works, Rs. 52,619 and Rs. 79,559 were spent on the Unharwah and Begari Canals, respectively. The expenditure on Mahiwah is a minus figure, viz., Rs.—157.

Under Minor works "Capital" Rs. 1,412 represent expenditure on the Ghar Canal.

12. The regular establishment charges amounted to Rs. 4,24,753, showing a decrease of Rs. 18,896 over those of the previous year:—

		Rs.	Percentage on outlay.
Executive Direction	...	3,70,811	18.9
Superintending Engineer...	Rs. 15,826		
Secretariat and Accounts ...	„ 38,116		
		53,942	2.8
Total ...		4,24,753	21.7

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 1914-1915.	Net profit 1913-1914.	Increase.	Decrease.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	13,54,547	4,71,081	8,83,466	2,47,697	6,35,769	3,70,955	2,64,814	...
Minor Works for which Capital and Revenue accounts are kept.	13,32,502	2,96,314	10,36,278	...	10,36,278	9,71,909	64,369	...
Total	26,87,139	7,67,395	19,19,744	2,47,697	16,72,047	13,42,864	3,29,183	...
Minor Works for which only Revenue accounts are kept.	21,03,572	8,76,448	12,27,124	...	12,27,124	9,82,940	2,44,184	...
Agricultural Works	91,821	9,78,234	—8,16,413	...	—8,16,413	—10,41,620	2,25,217	...
Total	21,95,693	17,54,682	4,11,011	...	4,11,011	—58,690	4,69,701	...
1914-15	48,32,582	25,52,077	23,30,755	2,47,697	20,83,058	12,84,174		+7,98,884
1913-14	43,97,242	29,78,396	15,20,646	2,38,672	12,84,174	...		...
Increase or decrease	4,35,340	—3,24,319	8,09,909	11,025	7,98,884	...		+7,98,884

13 (a) The following statement E gives the information required as per Government 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 (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+5.)
1	2	3	4	5	6
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
1,827,624	16,43,843	0.90	9,08,234	0.50.	1.40

14. There were 1,411 miles of main and 1,928 miles of branch canals total 3,339 miles, in operation during the year against 3,327 miles in the previous year.

The net increase of 12 miles in canals is due to—

- (1) 7 miles of Kur Matal branch of Naurangwah, a zamindari karia, having been taken over by Government.
- (2) increase of 5 miles of Baghar canal as a result of the Public Works Department boundary of the canal having been settled this year by the Revenue Authorities.

The net increase in the mileage of bunds (530) as compared with that of last year is 22 miles, and is the result of the following :—

	Miles.
(1) Increase due to proper mileage having been accounted for by Executive Engineer, Begari Canals, after loop bund of 1896 having been partly eroded away	+ 4
(2) Increase due to canals from Kashmir Bund, omitted in previous year by Executive Engineer, Begari Canals, having been shown this year	+ 26
(3) Increase due to the fact that the old bund in front of Abad loop is again being maintained in Shikarpur Canals District.	+ 5
(4) Decrease due to abandonment of Ahmed Bund in Shikarpur Canals District	- 11
(5) Decrease due to demarcation of new mileage of bunds this year by Executive Engineer, Karachi Canals District ...	- 5
(6) Increase in the bunds of north of Kotri in the Western Nara district shown this year by Executive Engineer ...	+ 3

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

STATEMENT F.

Corps.	1914-15.			Average for three previous years.	1913-14.	Increase or decrease as compared with average.	Increase or decrease as compared with 1913-14.
	Lift.	Flow.	Total.				
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif ...	Rice ...	14	699,510	699,524	665,407	+ 34,117	+ 22,381
	Juari ...	109,281	253,574	362,855	346,288	+ 16,567	- 34,736
	Bajri ...	38,720	123,591	162,311	124,473	+ 37,838	+ 29,198
	Cotton ...	464	1,218	1,682	2,054	- 372	- 399
	Other crops ...	7,903	68,927	76,830	75,367	+ 1,463	+ 15,786
Total ...	156,382	1,146,820	1,303,202	1,213,609	1,270,973	+ 89,593	+ 32,230
Rabi ...	Wheat ...	32,103	262,925	295,028	179,949	+ 115,079	+ 96,033
	Barley ...	953	15,333	16,285	9,069	+ 7,276	+ 3,338
	Oil-seeds ...	11,236	243,737	254,973	126,135	+ 128,838	+ 82,509
	Other crops ...	2,095	316,829	318,924	246,029	+ 72,895	+ 56,547
Total ...	46,387	838,823	855,210	561,122	645,303	+ 324,068	+ 238,517
GRAND TOTAL ...	202,769	1,985,643	2,188,412	1,774,731	1,917,365	+ 413,681	+ 271,047

Compared with the average of the previous triennium, this shows a decrease of 372 acres under cotton in the Kharif season and an increase under all sorts of other crops under Kharif and Rabi. As compared with the previous year there was a decrease of 34,736 acres under *juari* and 399 acres under cotton in the Kharif season and an increase under all sorts of other crops under Kharif and Rabi. The total cultivation as compared with the previous year and the average of the previous triennium shows an increase of 271,047 and 413,681 acres, respectively.

16. The percentages of Kharif and Rabi on the total area irrigated in this Division were 60 and 40, respectively. The highest percentage, *viz.*, 84 of Kharif, was in the Karachi Canals District and the lowest 48 was in the Western Nara District; while the Begari, Shikarpur and Ghar Canals Districts had, respectively, 73, 57 and 58 per cent. The Karachi Canals, the Ghar and the Western Nara Districts had, as usual, the largest rice areas, with 209,816, 217,195 and 169,652 acres, respectively, out of the total rice cultivation of the Division of 699,524 acres. The largest areas under *juari* were in the Begari Canals and Shikarpur Canals Districts, *viz.*, 141,860 and 93,247 acres, while the largest under *bajri* 127,700 acres was in the Begari Canals District and under cotton 831 acres in the Shikarpur Canals District. Of the Rabi crops, wheat was largely grown in the Begari, Western Nara, Shikarpur and Ghar Canals Districts, and oil-seeds in the Western Nara, Begari and Ghar Canals Districts. Nine per cent. of the whole area was watered by lift and 91 per cent. by flow against 10 and 90 per cent., respectively, during the previous year.

DUTIES AND DELTAS OF CANALS.

17. The duties and deltas of canals in this Division show the usual variations of values as compared with previous years, but there was a general increase in the net area irrigated owing to the favourable inundation.

Desert Canal.

The duty and delta for the year were 83 and 4.4, respectively, as compared with 66 and 4.7, respectively, of the previous year. The increase in the duty and decrease in the delta may be attributed to proper use having been made of the supply available.

Unharwah.

The duty and delta were 61 and 3.8 as compared with 51 and 4.5, respectively of the previous year. The increase in the duty and decrease in the delta are due, as in the case of the Desert Canal, to full advantage having been taken of the supply available.

Begari Canal.

The duty and delta were 96 and 4.3, respectively, as compared with 82 and 5, respectively, of the previous year. The better duty and delta are to be attributed to the same cause as that mentioned above under Desert Canal and Unharwah.

Canals in the Shikarpur Canals District.

The duties and deltas on all the canals in Rohri as well as the Sind and Garang Canals show an improvement over those obtained in the previous year. This was due to full advantage having been taken of the supply available.

The duty obtained on the Mahiwah was slightly better than that of the previous year; on the Chitti Canal it was the same as in the previous year; on the Rajib it was slightly less; and there were small increases in the delta obtained on this and the other two canals as compared with those of the previous year.

Sukkur Canal.

The Kharif and Rabi duties were 36 and 179 as compared with 35 and 340, respectively, of the previous year, and the deltas were 6.1 and 2.0 as compared with 6.1 and 1.1, respectively, of the previous year. The large decrease in the Rabi duty and increase in the delta is attributed to disproportionate increases in the average Rabi discharge and the net area irrigated.

Ghar Canal.

The duty and delta for the year were 98 and 3.9 as compared with 129 and 2.9, respectively, of the previous year. As in the case of the Sukkur Canal, the decrease in the duty and increase in the delta is attributed to disproportionate increases in the average discharge and the net area irrigated.

Canals in the Western Nara District.

The duties on the Western Nara, including its two feeders, called the new feeder and the Pritchard Canal, as well as on the Phitto Canal, were slightly higher than those of the previous year, but those on all the other canals were less; while the deltas on all the canals excepting the Phitto Canal were higher than those of the previous year. The decrease in the duty and increase in the delta is attributed to disproportionate increases in the average discharge and the net area irrigated and to the protracted period the canals were in flow. No observations of discharge could be taken of the Chario Wahur (Manchur, Aral and Dunstar) for the greater part of the season owing to the country being all under flood.

Canals in the Karachi Canals District.

The duties obtained on the Sattah, Kalri, Pinyari and Baghar Canals were 19, 31, 27 and 7, respectively, as compared with 16.6, 25.2, 23.2 and 7.1, respectively, of the previous year, and the deltas were 11.3, 6.9, 7.9 and 30.6, respectively as compared with 12.9, 8.5, 9.2 and 30, respectively, of the previous year. There was a slight improvement in the duties and deltas on the first three canals, but all the duties were low owing, as stated in previous reports, to the cultivation being mostly rice. The large delta on the Baghar is attributed, as also stated in previous reports, to a large quantity of water running to waste into the sea.

18. On "Major Works" the incidence of working expenses on assessed revenue and per acre irrigated were 34.09 per cent. Incidence of working expenses on the assessed revenue. Rs. 0.75 per acre against 49.50 and Rs. 1.04 of the last year.

Under "Minor Works" the incidence of the working expenses on assessed revenue and per acre irrigated were 22.23 per cent. and Rs. 0.81 per acre against 24.30 and 0.90 of the last year.

19. The total value of crops grown on the irrigated area of 2,188,412 acres was estimated by the Revenue Authorities at Rs. 4,80,67,073, which gives an average of Rs. 20 per acre.

20. The agricultural and other conditions of the year under review as affecting the areas irrigated by the principal works, such as the nature of the season, the state of demand and supply, etc., 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 Nara, the Bagher, 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 Canal, which nominally has a perennial supply.

The inundation of 1914 was an exceptionally good one. It may be regarded as a record year as regards height and duration of supply, though the highest gauge at Bukkur recorded during the year has twice been exceeded (in 1882 and 1897) since 1848.

The river commenced to rise about the middle of April and continued to do so, with some fluctuations, reaching the fair irrigating level of 13 feet on the Bukkur gauge on the 2nd July. This level and above was maintained for 45 days in July and August as compared with 16 days in the previous year, 31 days in the year before and 39 days the average of the previous 10 years.

The fair irrigating level of 17 feet on the Kotri gauge was first registered on 12th June and this level and above was maintained from 12th to 14th June and from 28th June to 2nd October, *i.e.*, for a total period of 100 days, against 66 days in the previous year, 59 days in the year before and 68 days the average of the previous 10 years.

The highest readings for the year were 17·4 feet on the 3rd August on the Bukkur gauge and 23·8 feet on the 11th August on the Kotri gauge against the recorded maxima of 17·9 feet and 22·9 feet, respectively.

The rainfall of the year was below the average. A few showers in the months of June, July and September, however, materially helped the Kharif cultivation in certain areas. It amounted to 5·32 inches as compared with 14·84 inches in the previous year and an average of 6·20 inches in the previous 10 years.

The supply in all the three canals—Desert, Unhar and Begari—in the Begari Canals District was very satisfactory throughout—The supply in the Mahiwah in the Shikarpur Canals District was very good throughout the season. In the Ghar Canals District a new head to the Rahuja Dhoro was given from the river as the previous dhoro had been heavily silted in a length of about 1½ miles. This new head was opened on 20th May 1914 when Bukkur gauge read 6·20 feet. The “katcha” through which the dhoro passes is very low-lying, consequently in full Abkalani it is submerged under 3 to 4 feet of water. When the river went down in August, it was found that the dhoro had been heavily silted. On the 12th of August there was only 3 feet of water in the Rahuja Dhoro, but with the rise of the river the full supply rose to 17 feet at Shikarpur Road Bridge. It was hoped, therefore, that the silt had been shifted; when, however, the river went down again, it was found on the 22nd of August that there was only 1·5 feet of water at Rahuja Head. Consequently the old head Sukkur Canal was opened on the 27th of August which gave good supply of water to Kharif crop as well as to Rabi. The inundation was the best one on record, and rarely has the river-rising been so favourable for crops as it was during the inundation under report. In the Western Nara District the effect of the inundation was good on all the canals, and the Kharif results would have been much better than those obtained, had it not been for floods and breaches due to unusually heavy rains both in the plains and in the hills. The floods were, however, not an unmixed blessing, for though they ruined a large area of Kharif, they resulted in an unusually extensive Rabi crop, with the net result that there was an increase of about 25 per cent. on the average total cultivation.

The Pinyari Canal in the Karachi Canals District has three regulators. The canal, including its branches, worked excellently throughout the season. The Baghar Canal suffered, as it invariably does in a year of high inundation, from numerous breaches, which points to the necessity of a regulator at its head. Many small breaches, mostly subsequently closed, occurred in its embank-

ments, but a large breach in the left bank in Baphi Gharko and a breach in the Thahimani Loop of the Bahgar-Uchito. Bund destroyed a greater part of the cultivation on this canal.

There is much wastage of water in the upper reaches of the Kalri Canal owing to the karias not having masonry sluices at their heads and consequently drawing off excessive supply and thus causing some deficiency at the tail. The canal has no banks which prevents more than a limited supply being let down for the lower reaches; consequently it appears desirable to provide masonry sluices to karias with vents according to the areas on each and to construct banks along the low-lying portions of the canal, for which necessary data are being collected by the Executive Engineer. The work of reduction of openings of sluices in the first 12 miles of the Sattah has been carried out in the year under report and the canal is now working fairly satisfactorily.

The total area irrigated in the Indus Right Bank Division during the year under report was 2,188,412 acres as compared with the average of the previous triennium of 1,774,731 acres; thus there has been an increase of 413,681 acres in cultivation during 1914-15. The areas irrigated in the whole Division under different crops are given in statement F, paragraph 15 above.

The estimated value of crops during 1914-15 was Rs. 4,80,67,073 and the average estimated value of crops of the previous triennium was Rs. 4,09,78,612; thus there was an increase of Rs. 70,88,431 during 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.

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

A sum of Rs. 1,892 was spent during the year on (1) additions and alterations to Public Work Department Inspection bungalow at Kandhkot and (2) providing taki bricks along Desert Canal and its branches.
Extensions and Improvements.

The main canal and its branches were maintained in good order at a
Maintenance and Repairs. cost of Rs. 97,697, including Work establishment.

The total area irrigated during the year under report was 213,650 acres, out of which 125,805 acres were under Kharif and 87,845 acres under Rabi, including Dubari, against 167,375 acres being the average of the past 3 years and 165,017 acres irrigated in the previous year. The increase is due to the very satisfactory water-supply in the canal.
Irrigation.

The gross revenue from all sources amounted to Rs. 3,77,265 compared with Rs. 3,23,868 of the last year and Rs. 3,27,482 the average of the previous triennium. Deducting working expenses Rs. 1,36,423, the net revenue during the year was 2,40,842 or 8.85 per cent. on the Capital outlay to end of the year as compared with 6.36 per cent. the average of the last triennium and 6.46 per cent. in the last year. The increase in revenue is due to the same cause as given above under paragraph on cultivation.
Financial Results.

Remissions granted amounted to Rs. 45,816 against Rs. 4,489 of the previous year. Increase in remissions as compared with the previous year is due to adverse winds and insects to Kharif crops and smaller Rabi remissions are due to the good water-
General remarks.

supply and favourable crop. The principal crops grown were rice, juari, bajri, wheat and oil-seeds and the estimated value of the outturn was Rs. 48,13,893 or Rs. 23 per acre.

B.—Unharwah.

24. A sum of Rs. 52,649 was spent during the year on the construction of a Head Regulator at mile 7 of Unharwah and on constructing a sluice at mile 2/5 of Gauspur Branch *ex Unharwah in the New Unharwah Loop.*

Capital.

During the year under report Rs. 933 were spent on fixing taki bricks and bench-mark stones along Unharwah and its branches.

Extensions and Improvements.

The main canal and its branches were maintained in good order at a cost of Rs. 38,936, including Work establishment.

Maintenance and Repairs.

The total area cultivated during the year was 78,409 acres, out of which 47,858 acres were under Kharif and 30,551 acres under Rabi as compared with 67,623 acres of the past 3 years' average and 62,062 acres of the past year. The increase is due to the excellent supply in the canal.

Irrigation.

The gross revenue amounted to Rs. 1,68,118 compared with Rs. 1,33,238 of the last year and Rs. 1,47,544 the average of the previous triennium. Deducting working expenses Rs. 56,467, the net revenue during the year was Rs. 1,11,651 or 14.15 per cent. on the Capital outlay to end of the year as compared with 13.18 per cent. the average of the previous triennium and 10.62 of the last year. The increase in revenue is due to same causes stated above in the case of cultivation.

Financial results.

The remissions granted amounted to Rs. 12,242 against Rs. 12,418 of the previous year and Rs. 5,863, the average of the past 3 years. Increase in remissions as compared with the average was due to damage done by insects and adverse winds. The principal crops grown were rice, juari, bajri, wheat and oil-seeds. The value of the outturn of crops grown during the year is estimated at Rs. 16,45,478 or Rs. 21 per acre.

General remarks.

C.—Begari Canal.

25. A sum of Rs. 79,559 was spent during the year on works in connection with the Choi Branch project such as water-courses, karia heads, bridges, &c.

Capital.

During the year under report Rs. 14,639 were spent on (1) additions and alterations to the 6th and 38th mile Regulators of Begari Canal and to Sonewah Regulator; (2) raising and strengthening the right bank of Begari from mile 1 to 6; (3) additions and alterations to Public Works Department Inspection bungalow at Khairo Garhi and Wakro; (4) constructing a well at Chana (29th mile Begari Canal); (5) providing a gate to the compound of Public Works Department Inspection bungalow at Faizu; and (6) providing mile and furlong posts and bench-marks and taki stones along Begari and its branches.

Extensions and Improvements.

The main canal and its branches were maintained in good order at a cost of Rs. 1,04,669, including Work establishment, against the sum of Rs. 1,72,767 spent during the previous year.

Maintenance and Repairs.

The total area cultivated during the year was 312,174 acres, out of which 201,266 acres were under Kharif and 110,908 acres under Rabi including Dubari as compared with 186,413 acres the average of the previous triennium and with 304,967 acres

Irrigation.

of the previous year. The increase is due to the very excellent supply passed into the the canal from the new mouth.

The gross revenue of the year amounted to Rs. 6,28,521 compared with Rs. 5,78,462 of the last year and Rs. 3,42,425 the average of the previous triennium. Deducting working expenses Rs. 1,77,846 and share due to old irrigation Rs. 24,554, the net revenue during the year due to improvements was Rs. 4,25,821 or 17·38 per cent. on the Capital outlay to end of the year as compared with 10·57 per cent. in last year and 2·55 per cent. the average of the previous three years. The increase in the net revenue due to improvements as compared with the average of three years and last year was Rs. 3,66,171 and Rs. 1,77,880, respectively, and is due to the same causes as given above under paragraph on cultivation.

The remissions during the year amounted to Rs. 28,305 against Rs. 49,529 of the previous year and Rs. 63,162 the average of the previous triennium. The principal crops grown were rice, juari, bajri, wheat and oil-seeds, and the estimated value of the outturn was Rs. 54,86,480 or Rs. 18 per acre.

D.—*Mahiwah.*

Capital. 26. No expenditure was incurred under this head during the year.

The sum of Rs. 11,574 was spent during the year on constructing a new Pubic Works Department Inspection bungalow with outhouses at Mirpur on the Masuwah *ex* Mahiwah and on other small works.

Maintenance and Repairs. The canal and its branches were maintained in good order at a cost of Rs. 61,737 including Work establishment.

Irrigation. The total area irrigated was 74,621 acres, of which 45,507 acres were under Kharif and 29,114 acres under Rabi. When compared with the average of the previous triennium 62,348 acres and 60,789 acres of the previous year, the total cultivation shows an increase of 12,273 and 13,832 acres, respectively, which is due to the excellent inundation.

Financial results. The gross revenue amounted to Rs. 1,80,634 and the working expenses to Rs. 1,00,345. Deducting working expenses and Rs. 89,217 being the share due to old irrigation, the net revenue due to improvements comes to Rs. —8,919, and represents—·62 per cent. on the Capital outlay as compared with—·26 per cent. the average of the previous triennium. The decrease in revenue, notwithstanding an increase in cultivation, is due to more working expenses during the year under report.

General remarks. The remissions granted amounted to Rs. 1,654, of which Rs. 973 were on account of Kharif and Rs. 681 on account of Rabi. The principal crops grown were juari, bajri, rice, wheat and oil-seeds. The estimated value of the outturn was Rs. 15,19,379 or Rs. 20 per acre.

II.—MINOR WORKS AND NAVIGATION.

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

I.—*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. 56,643, including Work establishment.
Maintenance and Repairs.

The total cultivation was 114,820 acres, of which 65,957 acres were under Kharif and 48,863 acres under Rabi. The total cultivated area, compared with the average of the previous triennium of 90,728 acres and of the previous year of 106,148 acres, was more by 24,092 acres and 8,672 acres, respectively. The increase in cultivation is due to a favourable inundation. The increase of 21,687 acres in Rabi over the past triennium is due to the opening of old Head Regulator Sukkur Canal which flowed upto March 15th.
Irrigation.

The gross revenue realized amounted to Rs. 2,85,606 compared with Rs. 2,62,180 of the last year and Rs. 2,23,456 the average of the previous triennium. Deducting working expenses Rs. 91,785 and share due to old irrigation Rs. 71,444, the net revenue during the year due to improvements was Rs. 1,22,377, giving a return 8.58 per cent. on the Capital outlay against 8.05 of the last year and 5.36 per cent. the average of the previous triennium. The net revenue due to improvement compared with the average of the previous triennium was more by Rs. 45,961. The increase in revenue is due to the same cause as given above under paragraph on cultivation.
Financial results.

The remissions granted during the year amounted to Rs. 5,237 against Rs. 3,379 in the previous year. The principal crops grown were rice, juari and wheat. The estimated value of the outturn was Rs. 27,03,104 or Rs. 24 per acre.
General remarks.

2.—Ghar Canal.

28. A sum of Rs. 1,412 was spent under this head during the year on taking over and remodelling Kur Matal, a zamindari karia *ex* the Naurangwah mile 7/4 right bank. This work was completed at the total cost of Rs. 5,455.
Capital.

The sum of Rs. 1,512 was expended under this head on (1) renewing the roof of the stables attached to the Public Works Department Inspection bungalow, class I, at Larkana, (2) providing fire buckets in the office of the Executive Engineer, Ghar Canals, and (3) constructing 2 wells in the compounds of the Inspection bungalows at Naundero and Pakho.
Extensions and Improvements.

The total expenditure during the year was Rs. 97,199, including Works establishment, against Rs. 1,19,435 of the last year.
Maintenance and Repairs.

The total cultivation was 389,572 acres, of which 225,867 acres were under Kharif and 163,705 acres under Rabi against 357,548 acres in the previous year and 353,032 acres the average of the previous triennium. This shows 32,024 acres more than the previous year and 36,540 acres more than the average of the past triennium. The increase is due to the good inundation.
Irrigation.

The gross revenue amounted to Rs. 10,19,108 compared with Rs. 10,01,379 of the last year and Rs. 9,58,495 the average of the previous triennium. Deducting working expenses Rs. 1,90,117 and share due to old irrigation Rs. 1,16,671, the net revenue during the year due to improvements was Rs. 7,12,320, which represents a return of 122.97 per cent. on the Capital outlay against 113.90 per cent. of the last year and 109.89 per cent. the average of the previous triennium. The net revenue due to improvements compared with the average of the previous triennium was more by Rs. 81,381. The increase in net revenue is due to good inundation.
Financial results.

The remissions granted during the year amounted to Rs. 15,943 against Rs. 13,740 of the last year. The principal crops grown were rice, juari, wheat and oil-seeds. The estimated value of the outturn was Rs. 92,62,698 or Rs. 24 per acre.
General remarks.

3.—*Sattah.*

Capital.

29. No expenditure was incurred under this head during the year under report.

Rs. 152 were spent under this head on constructing a sluice over Natho Dars Karia at Taki 141 of Sattah, left bank.

A sum of Rs. 10,783 was spent during the year, including Work establishment, against Rs. 8,589 of the last year.

The total area irrigated was 14,661 acres, of which 14,027 were under Kharif and 634 under Rabi. The increase in the total cultivation as compared with the average of the previous triennium of 14,387 is 274 acres, partly due to the more equal distribution of water along the whole canal by reducing, during the year under report, the openings of karia sluices in the head portion which were hitherto drawing supply in excess of requirements.

The gross revenue amounted to Rs. 27,878 compared with Rs. 25,210 the average of the previous triennium. Deducting working expenses Rs. 14,412 and share due to old irrigation Rs. 6,927, the net revenue during the year due to improvements was Rs. 6,539, which represents 3.63 per cent. on the Capital outlay as compared with—0.33 per cent. the average of the previous triennium. The increase in the net revenue due to improvements is due to the reduction in the amount of working expenses, as compared with the average of the last 3 years' expenditure, Rs. 25,798.

The remissions during the year amounted to Rs. 47 against Rs. 8,580 in the previous year and Rs. 6,057 the average of the previous triennium.

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

(1) *Canals in the Shikarpur 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. 62,127 was spent during the year on (1) constructing a regulator over the Garang Canal in the proposed Garang Loop to Sukkur Begari Bund, (2) constructing a regulator over Colonel Fife's Channel in the Adurtakio Loop of 1912, (3) constructing a baulkshed at the head regulator over the Chitti Canal in the Sarfu Lbop of 1912, (4) additions and alterations to head regulator over Colonel Fife's Channel, (5) raising and strengthening the left retired bank of Colonel Fife's Channel and on other small works.

The expenditure incurred under this head was Rs. 1,11,151 against Rs. 1,19,848 in the previous year.

The total area irrigated under this head was 202,147 acres, of which 115,184 acres were under Kharif and 86,963 acres under Rabi. When compared with the average of the previous triennium of 139,313 acres, it shows an increase of 62,834 acres, which is due to the excellent inundation.

The total canal revenue realized was Rs. 5,70,254, and the maintenance and revenue collection charges Rs. 1,56,403, which amounts to 27.4 per cent. of the revenue and Rs. 0.9 per acre of the area irrigated excluding Dubari. The corresponding figures for the previous triennium were 38.9 per cent. and Rs. 1.1, respectively. As compared with the last year and the average of the previous triennium, the canal revenue was more by Rs. 1,06,902 and Rs. 1,84,825, respectively, and the maintenance and revenue collection charges were less than the last year and

more than the average of the previous triennium. The increase in canal revenue is due to the same cause as given above under paragraph on cultivation.

General remarks. The remissions granted amounted to Rs. 2,579 against Rs. 5,419 for the previous year.

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

31. The district comprises the following main canals, which take off direct from the river :—

The Western Nara with its two feeders (the new feeder and the Pritchard Canal), the Marvi, the Phitta, the Chario Wahur with the Aral and the Dunstar, the Dadu Canals and the canals north of Kotri.

The Munchar Lake is fed by the Aral, Dunstar, Western Nara and rain water from the hills and again drained off for cultivation through the Aral and the Dunstar when the river falls.

A sum of Rs. 32,149 was spent under this head on (1) improvements to the Kudanwah *ex* Western Nara, (2) improvements to Dhamrao Canal *ex* Western Nara, (3) converting the road bridge across Bagdadwah into a head regulator, (4) constructing a head regulator and an escape sluice over the Sadabahar Canal, and the rest on minor works consisting of constructing new banks of canals, additions and alterations to inspection bungalows, and constructing sluices over zamindari karias.

The total expenditure under this head, including Special Repairs, amounted to Rs. 2,38,326 and was incurred on ordinary clearance of canals and special clearance of (1) Western Nara, Aral, New Akil Mouth and Akil Dhand, also in excavating new heads to Butho Canal, Chario Wahur, Pritchard Canal and a new cut to the Pritchard Canal, and ordinary and special repairs to buildings.

The total area irrigated was 512,469 acres, of which 243,484 acres were under Kharif and 268,985 acres under Rabi. There was a decrease of 4,484 acres under Kharif and an increase of 100,760 acres in Rabi or an increase of 96,276 acres in total cultivation as compared with 416,193 acres of the average of the total cultivation of the previous triennium. The increase is due to the excellent inundation of 1914 and to extensive Rabi cultivation on lands soaked by river and hill floods.

The total canal revenue was Rs. 11,27,475 as compared with Rs. 10,40,049 the average of the past 3 years. The revenue and collection charges during the year were Rs. 3,43,697 being 30.5 per cent. of the revenue and Rs. .8 per acre of the area irrigated excluding Dubari, the average corresponding figures of the previous triennium being Rs. 27.9 and Rs. .9, respectively. The increase in the revenue of Rs. 87,426 as compared with the average is due to the same causes as given above for cultivation.

The remission granted during the year amounted to Rs. 2,45,197 against Rs. 1,24,778 of last year, the average of the previous triennium being Rs. 79,774. The principal crops grown were rice, juari, bajri, wheat and oil-seeds.

(3) *Canals in the Karachi Canals District.*

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

The expenditure under this head was Rs. 37,975 and was spent on (1) constructing a head regulator over Gungri, (2) constructing a new head regulator over Chahatho Nando, (3) constructing embankment along the left bank of Baghar, and on some other small works.

The expenditure incurred under this head was Rs. 1,82,390, including Work Maintenance and Repairs. establishment, against Rs. 1,78,518.

The total area irrigated was 234,153 acres, of which 195,829 were under Irrigation. Kharif and 38,324 under Rabi. As compared with the average of previous triennium there was decrease of 18,951 under Kharif and an increase of 2,682 under Rabi and a decrease of 16,269 acres under both heads. The decrease under Kharif is due to some of the lands being submerged by floods and increase in Rabi due to the flooded lands being cultivated.

The total canal revenue amounted to Rs. 3,66,292 and the maintenance and revenue charges amounted to Rs. 2,27,680 Financial results. which amounts to 62.2 per cent. of the revenue and 1.1 per acre on the area irrigated excluding Dubari, the corresponding figures for the average of the previous triennium being Rs. 55.3 and Rs. 0.9. The comparison of the revenue for the year under report with that of the previous triennium shows a decrease of Rs. 9,313, which is due to remission of Rs. 54,630 due to floods.

The remissions amounted to Rs. 54,630 against Rs. 1,66,403 of the last year. General remarks.

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

33. The principal bunds in this Division on the right bank of the river are the Kashmor, Sukkur Begari, Ghar, Nara, bunds north of Kotri, and Right Bank Bunds in the Karachi Canals District; and on the left bank, the Kasimpur and the Karachi District Bunds.

The sum of Rs. 2,11,491 was spent during the year under this head. Extensions and Improvements. The principal works carried out were (1) works in connection with Garkinowah; (2) constructing the bund along the boundary of Wasir Forest; (3) raising and strengthening right bank of Colonel Fife's Channel in the Shikarpur Canals District; (4) raising and strengthening Baghar-Uchito Bund from mile 0 to 3, Sonda Hilaya Bund, Mulchand-Shahbandar Bund—Mulchand to Rajwah, Mulchand-Shahbandar Bund—Rajwah to Gungri; raising Baghar-Uchito Bund to 4 feet above H.F. L. of 1912; (5) constructing P. W. Inspection bungalow at Gungri on the Mulchand-Shahbandar Bund in Karachi Canals District; (6) extension of Western Nara Bunds mile 69/1 to 80/6; (7) constructing 2 sluices at mile 5/7 and 9/3 of Abad Bund with two syphons across Gillespiawah to irrigate Amrote Forest, and constructing 7 sluices *ex* Western Nara Bunds in Pritchard Canal; and (8) constructing a P.W. Inspection bungalow, class II. at Gajidero mile 40-4 of the Western Nara Bunds in the Western Nara District.

The expenditure of maintenance and repairs and special repairs to river Maintenance and Repairs. embankments, including Establishment and Tools and Plant charges, was Rs. 5,22,385 against Rs. 5,49,830 of last year.

The cultivation in 1914-15 on the canals *ex* Kashmor bund, on bunds Irrigation and Financial results. in the Shikarpur Canals, Karachi Canals, Western Nara and Ghar Canals Districts was 6,911, 14,412, 13,183, 5,781 and 1,449 acres, respectively, and the revenue Rs. 16,013, 36,491, 16,545, 15,766 and 5,053, respectively. The average cultivation and revenue of the previous triennium on the bunds in the above districts were 3,085 acres, Rs. 7,712; 9,371 acres, Rs. 25,431; 10,099 acres, Rs. 15,702; 3,211 acres, Rs. 10,608; 1,131 acres, Rs. 2,193.

The most important works classed under special repairs were the completion of unfinished 1912 Unharwah Loop Kashmor Bund; constructing pumping station at Gauspur-Kashmor Bund; and Bund A along the toe of Gauspur Loop in the Begari Canals District; constructing a loop to Sukkur Begari Bund mile 4/6 to 7/4 (Garang Loop); General remarks.

and 1st class Inspection bungalow at Chack near Rajib Canal in the Shikarpur Canals District; constructing Thahimani Loop from mile 33 to 79, closing the breach in the Thahimani Loop of 1914 and constructing a loop for closing breach in mile 0/2 of Panah-Baghar Bund in the Karachi Canals District. A sum of Rs. 11,063 was spent on the Mathematical Instrument Depôt on Establishment and Tools and Plant. A total sum of Rs. 1,50,813 was spent by the Chief Engineer, Indus River Commission, of which Rs. 30,201 were spent on making surveys on the Indus, Rs. 587 on constructing a detached storeroom at Kotri and on some other small works of Extensions and Improvements; Rs. 21,164 on Maintenance and Repairs of which Rs. 20,267 were spent on maintenance of steamers, gauges and snagging the River Indus, and small amount Rs. 897 on maintenance of other works; Rs. 96,125 under Regular Establishment and Rs. 2,384 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:—

Years.	Expenditure on maintenance of gardens during the year.	Receipts during the year.
1911-12 ...	Rs. 3,729	Rs. 2,245
1912-13 ...	„ 3,816	„ 2,043
1913-14 ...	„ 3,712	„ 2,437
1914-15 ...	„ 3,843	„ 1,608

35. The total number of trees planted during the year in this Division was 82,010, of which 52,590 were babul and the rest principally talli and nim. The number of trees alive at the end of the year was 515,538 including 328,901 babul. The number of young trees transferred from nurseries for plantation on canal banks was 215,591 including 86,432 babul.

36. The Division was in charge of the following officers in the year under report:—

Division.	Name of Officer.	M.	D.
Indus Right Bank Division...	Mr. F. St. J. Gebbie ...	6	6
	Mr. E. M. Proes ...	4	29
	Mr. G. McC. Harrison ...	0	27

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

District.	Name of Executive Engineer.	M.	D.
Karachi Canals District ...	Mr. C. M. Lane ...	12	0
Ghar Canals District. ...	Mr. M. A. Mirza ...	12	0
Western Nara District ...	Mr. B. E. Vachha...	7	11
	Mr. A. Gordon ...	2	0
	Mr. B. E. Vaccha...	2	20
Shikarpur Canals District ...	Mr. E. M. Proes ...	0	17
	Mr. J. M. Mackay ...	8	17
	Mr. N. B. Baxter ...	2	28
Begari Canals District ...	Mr. R. B. MacLachlan ...	0	22
	Mr. W. Kirkpatrick ...	1	2
	Mr. A. F. Thorpe ...	8	8
	Mr. A Gordon ...	1	30

B. KRISHNARAO,

Superintending Engineer, Indus Right Bank Division.

No. 239 OF 1916.

SUPERINTENDING ENGINEER'S OFFICE, INDUS LEFT BANK DIVISION.

Camp Bakhora, 20th January 1916.

From

R. T. HARRISON, EsQUIRE,
Superintending Engineer,
Indus Left Bank Division.

To

THE CHIEF ENGINEER IN SIND.

SUBJECT.—*Annual Irrigation Revenue Report for 1914-15.*

SIR,

With reference to Government Resolution No. W. I.-5362 of 7th May 1915, I have the honour to submit, for favour of disposal, the Irrigation Revenue Report for Sind for the year 1914-15.

2. The diagram showing the hydrograph of the River Indus, mentioned in the report, may please be attached in your office.

I have the honour to be,

Sir,

Your most obedient servant,

R. T. HARRISON,
Superintending Engineer, Indus Left Bank Division.

Accompaniments :—

As per index attached.

ANNUAL IRRIGATION REVENUE REPORT, INDUS LEFT BANK DIVISION, SIND, 1914-1915.

The inundation of 1914 was an exceptionally good one. It may be regarded as a record year, as regards height and duration of supply, though the highest gauge at Bukkur recorded during the year has twice been exceeded (in 1882 and 1897) since 1848.

The diagram accompanying this report compares the inundation of 1914 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 1913.	Average of 3 years including 1913.	1913.	1914.
		Days.	Days.	Days.	Days.
Gauges:—					
Bukkur, 10 feet and over	...	84	67	60	92
Do. 13 do.	...	39	19	16	45
Kotri 14 do.	...	118	118	114	136
Do. 17 do.	...	68	73	66	100
			Acres.	Acres.	Acres.
Irrigation:—					
Kharif	... ..		1,261,201	1,294,553	1,223,278
Rabi	... ..		205,579	194,353	297,866
Total			1,466,780	1,488,906	1,521,144
			Rs.	Rs.	Rs.
Gross Revenue	... ..		37,17,379	37,00,907	37,35,936
Working expenses	... ..		17,18,221	17,24,381	15,49,570
Net Revenue, neglecting simple interest	... ..		19,99,158	19,76,526	21,86,366

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 of which only Revenue accounts are kept.	Agricultural works.	Total.	
1	2	3	4	5	6	7
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Average of 3 years including 1913-14.						
{ Kharif ...	546,349	463,869	250,983	...	714,852	1,261,201
{ Rabi ...	129,730	51,678	24,171	...	75,949	205,579
Total	676,079	515,547	275,154	...	790,701	1,466,780
1913-14 ...						
{ Kharif ...	568,204	470,640	255,709	...	726,349	1,294,553
{ Rabi ...	123,223	45,857	25,268	...	71,125	194,353
Total	691,423	516,497	280,977	...	797,474	1,488,906
1914-15 ...						
{ Kharif ...	530,491	446,207	246,586	...	692,787	1,223,278
{ Rabi ...	172,367	88,498	97,001	...	125,499	297,866
Total	702,858	534,705	283,581	...	818,286	1,521,144
Increase of decrease compared with average.						
{ Kharif ...	-15,858	-17,662	-4,403	...	-22,065	-37,923
{ Rabi ...	42,637	36,820	12,830	...	49,650	92,287
Total	26,779	19,158	8,427	...	27,585	54,364
Increase or decrease compared with 1913-14.						
{ Kharif ...	-37,713	-24,433	-9,129	...	-33,562	-71,275
{ Rabi ...	49,139	42,611	11,733	...	54,374	103,513
Total	11,426	18,208	2,604	...	20,812	32,238

The total cultivation shows an increase of 32,238 and 51,364 acres, respectively, as compared with that of the previous year and of the average of the previous triennium, the decrease in Kharif being counterbalanced to this extent by the marked increase in Rabi for the two periods under comparison. The decrease in Kharif was partly due to a large area of Kharif lands being under water at the commencement of the season owing to the record rains of the previous year; and partly to circumstances arising out of the war, in that a less area was planted in cotton because of its low market price which, however, conversely resulted in a greater area being planted in wheat (Rabi) because of its high market price.

3. The area of 'Dubari' or twice-cropped land, which is not included in statement A, was 45,351 acres, of which 10,020 acres were 'watered Dubari,' 8,211 acres being in the Thar and Parkar District and 1,809 acres in the Nawabshah District. The 'Dubari' figures for the previous year and the average of the previous triennium were 28,809 and 27,978 acres, while those of 'watered Dubari' were 7,272 and 7,224 acres, respectively.

Irrigation assessment—Government and Jaghir.

4. The net irrigation assessment for the year, including 'Hakabo' for Jaghir lands, is 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 3 years including 1913-14.						
{ Kharif ...	16,28,030	10,91,251	6,16,975	...	17,08,226	33,86,256
{ Rabi ...	3,84,663	1,01,358	67,176	...	1,68,534	5,53,197
Total ...	20,12,693	11,92,609	6,84,151	...	18,76,760	38,69,453
1913-14						
{ Kharif ...	16,49,694	10,51,035	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
1914-15						
{ Kharif ...	15,73,662	12,01,511	6,02,639	...	18,04,150	33,77,812
{ Rabi ...	5,12,155	1,79,399	1,00,397	...	2,79,796	7,91,951
Total ...	20,85,817	13,80,910	7,03,036	...	20,83,946	41,69,763
Increase or decrease as compared with average.						
{ Kharif ...	- 54,368	1,10,260	- 14,336	...	35,924	41,556
{ Rabi ...	1,27,492	78,041	33,221	...	1,11,262	2,38,754
Total ...	73,124	1,88,301	18,885	...	2,07,186	2,80,310
Increase or decrease as compared with 1913-14.						
{ Kharif ...	- 76,032	1,50,506	- 25,039	...	1,25,467	49,435
{ Rabi ...	1,62,402	88,299	31,934	...	1,20,233	2,82,635
Total ...	86,370	2,38,805	6,895	...	2,45,700	3,32,070

The net assessed revenue shows an increase of Rs. 3,32,070 and Rs. 2,80,310 when compared with that of the previous year and of the average of the previous triennium, respectively.

4-A. The area cultivated on 'spill' water was 10,178 acres as compared with the previous year's area of 3,374 acres and 2,251 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.	1914-15.	1913-14.
	Rs.	Rs.	Rs.
Major Works—Productive ...	3.05	3.04	2.97
Minor Works for which Capital and Revenue accounts are kept.	2.64	2.98	2.51
Minor Works for which only Revenue accounts are kept.	2.74	2.73	2.74
Average for all works ...	2.86	2.97	2.78

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 ...	85,27,638	82,360	1,07,381	37,17,379	1,57,581
1913-14 ...	34,87,417	98,445	1,15,045	37,00,907	1,15,500
1914-15 ...	35,55,974	61,230	1,18,732	37,35,936	3,30,678
Increase or decrease as compared with 1913-14.	63,557	-37,215	3,687	35,029	2,15,178
Increase or decrease as compared with average.	28,336	-21,130	11,351	18,557	1,73,097

The year under report shows an increase in the outstanding balance of Rs. 2,15,178 and Rs. 1,73,097, respectively, as compared with the last year and the average of the previous three years. This large increase of outstanding balance was mainly in the Jamrao Canal District as the payment of the first instalment of the Kharif crop was suspended till the year 1915-16. The total outstanding balance at the end of the year on the Jamrao Canal under both Government and Jaghir lands was Rs. 2,12,890 against Rs. 27,654 of the last year and Rs. 58,137 the average outstanding balance of the three previous years.

7. The remissions granted during the year amounted to Rs. 1,11,628 against Rs. 3,22,822 remitted last year and Rs. 1,50,963 the average remissions of the previous three years. The remissions on the Kharif crop amounted to Rs. 90,576, while on Rabi the amount remitted was Rs. 21,052.

The following statement gives details of the causes of remissions and compares the result of the year under report with that of the previous year :—

REMISSIONS.

Causes of remissions.	1914-15.	1913-14.	Difference.
1	2	3	4
	Rs.	Rs.	Rs.
Deficiency of water and drought	43,190	14,544	28,646
Difference between the rates of old and new settlements.	34,528	.....	34,528
Floods and erosion	13,186	1,50,416	-1,37,280
Locusts	5,699	11,942	- 6,243
Breaches of canals	4,391	.....	4,391
Blight or mahlo	4,106	.....	4,106
Insects or wireworms	1,998	17	1,981
Kalar soil	1,788	698	1,090
Written off	1,381	.....	1,381
Grants cancelled and arrears remitted	417	.....	417
Frost	196	158	38
Other causes	798	886	- 38
Postponement of levy of the revised assessment rates.	.....	1,42,090	-1,42,090
Reduction in rate of assessment for lift rice ... ..	.....	1,313	- 1,313
Hails ... ..	.....	282	- 282
Poverty of peasants ... ..	.....	526	- 526
Total	1,11,628	3,22,822	-2,11,194

Remissions on Jaghir lands.

7-A. No remissions on Jaghir lands were granted this year.

8. The difference between the 'Hakabo' or water rate assessed on Jagir cultivation and the assesment at full rates on these areas amounted to Rs. 2,88,936, which represents the loss of canal revenue during the year owing to the low rates charged to Jaghirdars.

Expenditure on maintenance and repairs and establishment charged to works.

9. The total charges during the year on account of maintenance and repairs amounted to Rs. 13,64,999 as shown below :—

	Rs.
Works	8,63,942
Establishment and Tools and Plant	2,86,195
Percentage charges for revenue collection...	2,14,862
Total	13,64,999

The establishment charged to 'Works' amounted to Rs. 1,85,585 and is included in the expenditure on 'Works,' while the net expenditure on 'Works' (clearance and repairs) was Rs. 6,78,357. Compared with the previous year and with the average of the previous three years, the net expenditure on clearance and repairs shows a decrease of Rs. 73,683 and Rs. 36,544, respectively; the charges on account of establishment and tools and plant also show a decrease of Rs. 64,967 and Rs. 55,550.

Expenditure on maintenance and repairs separately for canals and river embankments.

10. Of the total charges shown in the preceding paragraph, Rs. 13,16,053 were spent on canals and Rs. 48,946 on river embankments.

Outlay on new works.

11. The outlay of the year on new works was Rs. 3,40,239 as shown below :—

					Rs.
Major Works	...	...	...	{ Capital ...	1,93,551
				{ Revenue ...	95,774
Minor Works and Navigation—					
Works for which Capital and Revenue accounts are kept.				{ Capital ...	...
				{ Revenue ...	19,822
Works for which only Revenue accounts are kept	...				7,134
Agricultural works	...				23,958
				Total Rs.	3,40,239

Under Major head—Capital—Rs. 1,67,856 represent the "Works" expenditure, of which Rs. 74,840 were spent on the Dad Canal and the Ren Distributary *ex* Dad, Rs. 64,693 on works in the Eastern Nara District and Rs. 29,834 on the Jamrao Canal. The expenditure on the Nasrat Canal is the negative one of Rs.—1,511.

12. The regular establishment charges as shown below amounted to Rs. 3,52,854, which is Rs. 44,560 and Rs. 61,323 less than the previous year and the average of the previous three years :—

Executive	...	...	...	Rs. 3,05,996.	Percentage on outlay.	26.6
Direction—						
Superintending Engineer	...	Rs.	25,641			
Secretariat	21,217			
				Rs. 46,858		4.1

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te-

Class of works.	Gross revenue.	Working expenses.	Net revenue.	Simple interest.	Net profit 1914-15.	Net profit 1913-14.	Increase.	Decrease.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Works—Productive	18,17,503	8,19,724	9,97,779	6,70,052	3,27,727	4,07,862	...	— 80,135
Minor Works for which Capital and Revenue accounts are kept.	12,65,422	4,05,651	8,59,771	...	8,59,771	6,58,655	2,01,116	...
Total	30,82,925	12,25,375	18,57,550	6,70,052	11,87,498	10,66,517	2,01,116	— 80,135
Works for which only Revenue accounts are kept.	6,52,503	2,51,291	4,01,512	...	4,01,512	3,80,257	21,255	...
Agricultural Works	208	72,904	— 72,696	...	— 72,696	— 1,14,606	41,910	...
1914-15	37,35,936	15,49,570	21,86,366	6,70,052	15,16,314	13,32,168		+ 1,84,146
1913-14	37,00,907	17,24,381	19,76,526	6,44,358	13,32,168	...		.....
Increase or decrease	35,029	— 174,811	2,09,840	25,694	1,84,146	...		+ 1,84,146

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 (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.
1,521,144	14,76,666	0.97	72,904	0.05	1.02

The total working expenses including expenditure on agricultural works comes to Rs. 1.02 per acre of total area irrigated, compared with Rs. 1.16 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 1,019 miles of main canals and 2,999 of branch canals—total 4,018 miles—in operation during the year against the previous year's total mileage of 4,014 (main canals 1,021 miles and branch canals 2,993 miles). The total length of river embankments remains the same as last year, *viz.*, 369 miles. The decrease and increase in the mileage of canals is explained at the bottom of Table VI accompanying this report.

Area of principal crops.—Government and Jagir.

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

STATEMENT F.

Crops.	1914-15.			Average of previous 3 years.	1913-14.	Increase or decrease as compared with average.	Increase or decrease as compared with 1913-14.	
	Lift.	Flow.	Total.					
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Kharif	Rice	905	378,489	879,394	410,947	405,120	- 31,553	- 25,726
	Juari	77,518	58,198	135,716	116,117	132,266	17,599	3,450
	Bajri	272,478	67,271	339,749	338,004	392,718	- 43,255	- 52,969
	Cotton	162,884	160,865	323,749	310,321	322,840	13,428	949
	Other crops	25,689	18,666	44,355	38,438	41,314	5,922	3,041
Total	539,474	683,489	1,222,963	1,260,822	1,294,258	- 37,659	- 71,295	
Rabi	Wheat	18,378	144,814	163,192	115,495	106,543	47,697	56,649
	Barley	498	5,274	5,772	4,341	2,795	1,431	2,977
	Oil-seeds	2,679	102,056	104,735	61,614	65,773	43,121	38,962
	Other crops	6,657	62,681	69,338	51,955	47,916	17,353	21,422
Total	28,212	314,825	343,037	233,405	223,027	109,632	120,010	
Grand total	567,686	998,314	1,566,000	1,494,227	1,517,285	71,773	48,715	

As compared with the last year and the average of the previous three years, there was a decrease of 71,295 acres and 37,859 acres under Kharif and an increase of 120,010 acres and 109,632 acres under Rabi, resulting in a net increase of 48,715 acres and 71,773 acres, respectively. With the exception of rice and bajri, there was an increase under all the crops when compared with the previous year and the average.

16. The proportions of Kharif and Rabi out of the total area irrigated in the Division were 78 and 22 against 85 and 15 of the last year. The highest Kharif percentage of 83 was in the Hyderabad Canals District and the lowest 65 was in the Jamrao Canal District, while the Fuleli Canals, Nasrat Canals and Eastern Nara Districts had, respectively, 82, 80 and 76 per cent. The Fuleli Canals and the Eastern Nara Districts had as usual the largest rice areas with 246,993 acres and 113,076 acres, respectively, out of the total rice cultivation of the Division of 379,394 acres. The largest areas under bajri were in the Hyderabad and Fuleli Canals Districts, *viz.*, 143,019 and 81,348 acres. The largest area under *juari* was, as usual, in the Nasrat Canals District with 113,878 acres. Of the total area of 323,749 acres under cotton in the Division, the area under this crop on the Jamrao was 125,221 acres and in the Hyderabad Canals District 83,488 acres.

Of the Rabi crops, wheat was most largely grown, as last year, on the Jamrao and the Eastern Nara systems, the Jamrao accounting for 68,866 acres and the Eastern Nara for 42,394 acres out of a total for the whole Division of 163,192 acres. The smallest area cultivated in wheat was in the Hyderabad Canals District, *viz.*, 5,027 acres. The areas under oil-seeds were 43,139 acres in the Fuleli Canals District and 24,247 acres in the Nasrat Canals District and 22,569 acres in the Hyderabad Canals District out of the total for the Division of 104,735 acres.

Out of the total area cultivated during the year, 36 per cent. was watered by lift and 64 per cent. by flow against 40 and 60 per cent., respectively, during the previous year.

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

The Kharif duty and delta on the Jamrao were 67 and 5.2 as compared with 82 and 4.2 in the previous year. The decrease in duty and increase in delta may be attributed to the increase in the average discharge of the canal at its head. The Rabi duty has risen from 36 to 50 and the delta has fallen from 9.3 to 7.3, a better result than that of the last year. The high Rabi delta is as usual due to the fact that Kharif cotton is watered for a few months in the Rabi season. The average discharge measured for 358 days on which the canal was flowing was 2,119 cusecs, and as the total area brought to maturity was 253,770 acres, each cusec irrigated 120 acres against 124 acres in the previous year.

On the Dad, the duty and delta were 39 and 5.2 against 43 and 5.0 in the previous year. The decrease in duty and a slight increase in delta are due to the increase in the average discharge.

On the Nasrat, the duty and delta were 52 and 4.7 against 65 and 3.4 in the previous year. The decrease in duty and increase in delta are due to the decrease in the area cultivated and an increase in the average discharge.

On the Mithrao, the Kharif duty and delta were 49 and 7.5 against last year's figures of 56 and 6.0, the fall in duty and increase in delta being similarly due partly to decrease in Kharif cultivation and partly to an increase in the average discharge. The Rabi duty and delta on this canal were 26 and 12.8 against 22 and 13.1 of the last year. The increase in duty is due to the Rabi cultivation being greater than that of the previous year.

On the Hiral Canal, the Kharif duty and delta were 63 and 5.8 against 95 and 3.5 in the previous year. The fall in duty and increase in delta are due partly to Kharif cultivation being less and partly to the quantity of water being more than in the previous year. The Rabi duty and delta was 42 and 8.0 against last year's figures of 19 and 13.6.

On the Thar Canal, the duty and delta were 45 and 8.6 against 61 and 6.3 of the previous year. The decrease in duty is due to the supply in the canal being much better than in the previous year while the cultivation remained nearly the same.

On the Khipro Canal, the duty and delta were 43 and 8.6 against 34 and 7.2 in the previous year. This satisfactory result is due to the favourable inundation and increased cultivation.

On the Fuleli, the Kharif duty and delta were 44 and 8.3 against the previous year's figures of 51 and 7.2, while the Rabi duty and delta were 52 and 7.0 against the last year's figures of 63 and 5.7. The low duty and high delta are due to the abnormal supply of water far in excess of requirements.

On the Hasanali, there is practically no change, the duty and delta being 30 and 10.1 against 30 and 9.5 in the previous year.

18. On "Major Works" the incidence of working expenses on assessed revenue and per acre irrigated were 40.79 per cent. and Rs. 1.17 per acre as compared with 47.34 per cent. and Rs. 1.35 per acre in the previous year.

Under "Minor Works" the figures were 31.72 per cent. and Re. 0.76 per acre as compared with 38.49 per cent. and Re. 0.79 per acre last year.

19. The total value of crops grown on the irrigated area of 1,566,000 acres was estimated by the Revenue authorities at Rs. 3,73,20,245, 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 Nara System, the Jamrao, the Dad, the Nasrat, the Fuleli, the Hasanali, the Alibhar Kacheri, the Great Marak and the Sarfraz.

The Eastern Nara System comprises the Nara, Mithrao, Hiral, Thar and Khipro Canals; the first four are perennial, while the last flows only during the inundation. The Jamrao has also a perennial supply. The Eastern Nara System and the Jamrao are both fed by the Nara 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 1914, as already mentioned, was an exceptionally good one. In Sind the river is considered not to have reached a fair irrigating level until the reading on the gauge at Bukkur is 13 feet and that on the gauge at Kotri is 17 feet. During the year under review these levels were reached for 45 days and 100 days, respectively, as compared with the average of 39 days and 68 days for the previous 10 years. The highest readings for the year were 17.4 feet on the Bukkur gauge and 23.8 feet on the Kotri gauge against the recorded maximum of 17.9 feet and 22.9 feet, respectively. The rainfall of the year was below the average, though the few showers in June, July and September materially helped the Kharif cultivation in certain areas. The supply in the Jamrao during the Kharif season was insufficient, due to some

silting in the upper reaches, but this was scoured down during the Rabi season. The Rabi supply was adequate.

The areas irrigated in the whole Division under different crops are given in statement F, paragraph 15, above. There was an increase of 48,715 acres as compared with 1913-14 and of 71,773 acres when compared with the average of the previous 3 years.

22. The following paragraphs give details of different works or groups of works and a comparison of the agricultural and financial results of the year 1914-15 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 Nara System.

An expenditure of Rs. 64,693 was incurred under this head during the year under report, on the construction of four parallel distributaries *ex* Mithrao Canal, two in the 30th mile (left and right) and two in the 45th mile (left and right). These distributaries will all be in operation in 1916-17.

A sum of Rs. 44,312 was spent during the year mainly on extending the inner right and left bank inspection paths along the Nara below Makhi Regulator, on constructing karia head regulators on Mithrao Canal and on completing the Public Works Inspection bungalow at 79th mile Mithrao.

All the canals in the district were maintained in good order at a cost of Rs. 1,10,738 including "Work Establishment."

The area irrigated during the year was 261,040 acres, of which 197,166 acres were under Kharif and 63,874 acres under Rabi as compared with 260,094 acres (Kharif 216,945 and Rabi 43,149 acres) in the last year and with 254,348 acres (Kharif 206,697 and Rabi 47,651 acres) the average of the previous three years.

The gross revenue for the year amounted to Rs. 6,75,520 as compared with last year's revenue of Rs. 6,41,514 and Rs. 6,69,626 the average revenue of the previous triennium. Deducting working expenses Rs. 2,02,139 and share due to old irrigation Rs. 3,100, the net revenue during the year due to improvements was Rs. 4,70,281 or 6.82 per cent. on the Capital outlay to end of year as compared with 6.05 per cent. in the last year and 6.11 per cent. the average of the previous three years.

The remissions granted during the year amounted to Rs. 11,257 against Rs. 56,642 remitted last year and Rs. 24,992 the average remissions of the previous three years. The year's remissions were due mostly to drought and damage by locusts.

The principal crops grown were—

				Acres.
Rice	...	...	...	113,076
Cotton	...	...	...	47,821
Wheat	...	...	...	42,394
Bajri	...	...	...	32,771
Oil-seeds	...	...	...	11,825

and the value of the whole outturn is estimated at Rs. 61,77,403 or Rs. 25 per acre.

24. *B.—Jamrao Canal.*

The expenditure during the year was Rs. 29,834, which was mainly spent on works in connection with the 17th mile project.

Capital.

A sum of Rs. 18,242 was spent during the year on 'Works' only, mainly on constructing a bungalow at 23rd mile Puran Minor.

Extensions and Improvements.

The canal and its branches were maintained in good order at a cost of Rs. 1,52,543 including 'Works Establishment.' Regrading and clearance of minors was done where necessary. The conditions at the head works in the Nara continued to be satisfactory and the groynes in the first seven miles of the canal were maintained in good order as usual.

Maintenance and Repairs.

The total area irrigated during the year was 259,558 acres (Kharif 169,080 acres and Rabi 90,478 acres) compared with 239,617 acres (Kharif 177,927 acres and Rabi 61,690 acres) in the last year and with 239,929 acres (Kharif 168,778 acres and Rabi 71,151 acres) the average cultivation of the previous three years.

Irrigation.

The gross revenue of the year amounted to Rs. 6,54,343 compared with Rs. 8,20,056 in the last year and Rs. 7,88,671 the average revenue of the previous three years. Deducting working expenses Rs. 3,43,469, the net revenue during the year was Rs. 3,10,874 or 3.68 per cent. on the Capital outlay to end of year as compared with 5.55 per cent. of the last year and 5.28 per cent. the average of the previous three years.

Financial results.

The amount remitted during the year was Rs. 19,448 against Rs. 10,819 remitted last year and Rs. 9,115 the average remissions of the previous three years. The year's remissions were mainly due to drought and kalar soil.

General remarks.

The principal crops grown were—

					Acres.
Cotton	...	...	...	...	125,221
Wheat	...	...	...	...	68,866
Bajri	...	...	...	...	32,389

and the estimated value of the whole outturn was Rs. 79,94,834 or Rs. 31 per acre.

25. *C.—Dad Canal.*

The expenditure during the year was Rs. 74,840 and was spent on the Ren Distributary works and excavating a new mouth to Guri Dad.

Capital.

A sum of Rs. 7,331 was spent on 'Works' only mainly on completion of the Executive Engineer's bungalow and office at Nawabshah and construction of Public Works Inspection bungalow at Gupchani.

Extensions and Improvements.

The canal and its branches were maintained in good order at a cost of Rs. 1,19,558 including 'Work Establishment.'

Maintenance and Repairs.

The total area irrigated during the year was 113,999 acres (Kharif 83,479 acres and Rabi 30,520 acres) as compared with 109,179 acres (Kharif 88,670 acres and Rabi 20,509 acres) in the previous year and with 105,477 acres (Kharif 89,085 acres and Rabi 16,392 acres) the average of the previous three years.

Irrigation.

The gross revenue for the year amounted to Rs. 2,51,850 as compared with Rs. 2,60,901 in the last year and Rs. 2,49,392 the average of the previous three years. Deducting working expenses Rs. 1,80,024 and share due to old irrigation Rs. 38,699, the net revenue due to improvements was Rs. 33,127 or Rs. 1.25 per cent. on the Capital outlay to end of the year as compared with 1.96 per cent. in the last year and 2.03 per cent. the average of the previous triennium.

The remissions granted during the year amounted to Rs. 15,718 against Rs. 3,490 remitted last year and Rs. 5,841 the average remissions of the previous three years. The increase in remissions is mainly due to difference in rates of old and new settlements, deficiency of water in places and blight.

The principal crops grown were—

					Acres.
Bajri	...	...	...	...	26,808
Juari	...	...	...	...	25,348
Oil-seeds	...	...	...	...	16,988
Cotton	...	...	...	...	12,667

and the estimated value of the outturn was Rs. 28,58,735 or Rs. 25 per acre.

26. D.—Nasrat Canal.

Capital. No expenditure was incurred on this canal under this head.

The expenditure under this head during the year was Rs. 6,133 on "Works" only and was chiefly spent on completion of the Executive Engineer's bungalow and office at Nawabshah (the cost of which is divided between Dad and Nasrat) and construction of Public Works Inspection bungalow at Guphani.

Maintenance and Repairs. The canal and its branches were maintained at a cost of Rs. 56,056, including "Work Establishment."

Irrigation. The area irrigated during the year was 88,936 acres (Kharif 80,602 acres and Rabi 8,334 acres) as compared with 99,176 acres (Kharif 84,580 and Rabi 14,596 acres) in the previous year, and with 92,872 acres (Kharif 81,624 acres and Rabi 11,248 acres), the average of the previous three years.

Financial results. The gross revenue amounted to Rs. 2,35,790 as compared with Rs. 2,62,138 of the previous year and Rs. 2,55,027 the average of the previous three years. Deducting working expenses Rs. 94,092 and share due to old irrigation Rs. 53,046, the net revenue due to improvements was Rs. 88,652 or 4.71 per cent. on the Capital outlay to end of the year as compared with 1.53 per cent. in the last year and 1.27 per cent. the average of the previous three years.

General remarks. The remissions granted during the year amounted to Rs. 18,691 against Rs. 17,891 remitted last year and Rs. 19,382 the average remissions of the previous three years. The remissions of the year were mainly due to difference in rates of old and new settlements and to deficiency of water in places.

The principal crops grown were—

					Acres.
Juari	...	...	...	...	34,929
Cotton	...	...	...	...	28,649
Bajri	...	...	...	...	11,604

and the estimated value of the outturn was Rs. 22,15,762 or Rs. 25 per acre.

II.—MINOR WORKS AND NAVIGATION.

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

27. 1.—*Fuleli Canal.*

A sum of Rs. 12,129 was spent on "Works" only, mainly on additions and alterations to the 2nd class Inspection bungalows at Khairpur, Kadhan and Khadahro and on construction of a 2nd class Inspection bungalow with outhouses at Rajo Khanani.

Extensions and Improvements.

Maintenance and Repairs.

The canal and its branches were maintained in good order at a cost of Rs. 1,59,942 inclusive of "Work Establishment."

The area irrigated during the year was 398,375 acres (Kharif 324,716 acres and Rabi 73,659 acres) compared with 385,943 acres (Kharif 345,251 acres and Rabi 40,692 acres) irrigated in the previous year and with 389,075 acres (Kharif 338,965 acres and Rabi 50,110 acres) the average of the previous three years.

Irrigation.

The gross revenue amounted to Rs. 9,26,309 against Rs. 7,59,131 realized last year and Rs. 8,10,318 the average of the previous three years. Deducting working expenses Rs. 2,93,494 and share due to old irrigation Rs. 1,28,188, the net revenue due to improvements was Rs. 5,04,627 or 25.43 per cent. on the Capital outlay to end of the year compared with 15.99 per cent. in the last year and with 17.37 per cent. the average of the previous three years.

Financial results.

The amount remitted during the year was Rs. 6,371 against Rs. 2,21,540 remitted last year and Rs. 80,232 the average remissions of the previous three years. The year's remissions were due to floods and damage by locusts.

General remarks.

The principal crops grown were—

					Acres.
Rice	...	...	...	...	217,245
Bajri	...	...	...	...	71,280
Oil-seeds	...	...	...	...	40,633
Cotton	...	...	...	...	21,657

and the estimated value of the outturn was Rs. 88,11,740 or Rs. 22 per acre.

28. 2.—*Hasanali Canal.*

A sum of Rs. 2,568 was spent during the year on "Works" only.

Extensions and Improvements.

Maintenance and Repairs.

The canal and its branches were maintained in good order at a cost of Rs. 18,019 inclusive of "Work Establishment."

The area irrigated during the year was 18,230 acres (Kharif 17,746 acres and Rabi 484 acres) compared with 17,881 acres (Kharif 17,608 acres and Rabi 273 acres) in the previous year and with 17,450 acres (Kharif 17,134 acres and Rabi 316 acres) the average of the previous three years.

Irrigation.

The gross revenue amounted to Rs. 48,423 compared with Rs. 42,338 realized last year and Rs. 44,610 the average realizations of the previous three years. Deducting working expenses Rs. 30,395 and share due to old irrigation Rs. 2,458, the net revenue due to improvements was Rs. 15,570 or 5.11 per cent. on the Capital outlay to end of the year against 5.35 per cent. in the last year and 4.75 per cent. the average of the previous three years.

Financial results.

The remissions of the year amounted to Rs. 65 only against Rs. 7,364 remitted last year and Rs. 2,577 the average remissions of the three previous years.

General remarks.

The principal crop grown was rice 14,069 acres, and the estimated value of the outturn was Rs. 5,58,675 or Rs. 31 per acre.

29.

3.—*Alibhar Kacheri.*

Maintenance and Repairs. The canal and its branches were maintained in good order at a cost of Rs. 2,212, including "Work Establishment."

Irrigation. The area irrigated was 19,275 acres (Kharif 12,773 acres and Rabi 6,502 acres) against last year's area of 14,998 acres (Kharif 13,739 and Rabi 1,259 acres) and 13,625 acres (Kharif 12,834 acres and Rabi 741 acres) the average area irrigated in the previous three years.

Financial results. The gross revenue amounted to Rs. 42,099 against Rs. 30,847 in the last year and Rs. 29,078 the average revenue of the previous three years. Deducting working expenses Rs. 6,424 and share due to old irrigation Rs. 8,239, the net revenue due to improvements was Rs. 27,436 or 114.71 per cent. on the capital outlay to end of year against last year's percentage of 67.91 and 56.0 the average percentage of the previous three years.

General remarks. The sum remitted during the year was Rs. 856 against Rs. 300 remitted in the last year and Rs. 167 the average remissions of the previous three years. The year's remissions were due to floods and breaches.

The principal crops grown were bajri 7,561 acres and cotton 3,732 acres, and the value of the whole outturn was estimated at Rs. 5,17,432 or Rs. 27 per acre.

30.

4.—*Great Marak.*

Extensions and Improvements. A sum of Rs. 563 was spent on "Works" only.

Maintenance and Repairs. The canal and its branches were maintained in good order at a cost of Rs. 26,189, including "Work Establishment."

Irrigation. The area irrigated was 82,165 acres (Kharif 63,555 acres and Rabi 18,610 acres) against 72,263 acres (Kharif 64,514 acres and Rabi 7,749 acres) in the last year and 70,251 acres (Kharif 65,094 acres and Rabi 5,157 acres), the average of the previous three years.

Financial results. The gross revenue amounted to Rs. 1,88,429 against Rs. 1,72,863 in the last year and Rs. 1,69,629 the average revenue of the previous three years. Deducting working expenses Rs. 53,184 and share due to old irrigation Rs. 36,032, the net revenue due to improvements was Rs. 99,213 or 45.98 per cent. on the Capital outlay to end of the year compared with 42.14 per cent. in the previous year and 39.58 per cent. the average of the last three years.

General remarks. The sum remitted during the year was Rs. 3,927 against Rs. 1,480 remitted last year and Rs. 1,104 the average remissions of the last three years.

The principal crops grown were bajri 33,785 acres, cotton 24,435 acres and oil-seeds 11,084 acres, and the value of the whole outturn was estimated at Rs. 19,74,271 or Rs. 24 per acre.

31.

5.—*Sarfraz.*

Maintenance and Repairs. The canal and its branches were maintained in good order at a cost of Rs. 12,051 including "Work Establishment."

Irrigation. The area irrigated during the year was 29,363 acres (Kharif 27,417 acres and Rabi 1,946 acres) against 30,726 acres (Kharif 28,823 acres and Rabi 1,903 acres) in the last year and 30,972 acres (Kharif 29,557 acres and Rabi 1,415 acres) the average of the previous three years.

Financial results. The gross revenue was Rs. 60,162 against last year's figure of Rs. 62,852 and Rs. 61,565 the average revenue of the previous three years. Deducting working expenses Rs. 22,154 and share due to old irrigation Rs. 10,985, the net revenue due to improvements was Rs. 27,023 or 21.67 per cent. on the Capital outlay to the end of the year compared with 25.61 per cent. in the previous year and 25.44 per cent. the average of the previous three years.

General remarks. The sum remitted during the year was *nil* against Rs. 2,895 remitted last year and Rs. 999 the average remissions of the previous three years.

The principal crops grown were bajri 16,858 acres and cotton 7,293 acres, and the value of the whole outturn was estimated at Rs. 4,19,352 or Rs. 14 per acre.

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

32.

1.—*Nasrat Canals District.*

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

Extensions and Improvements. A sum of Rs. 2,069 was spent on "Works" only.

Maintenance and Repairs. All the canals under this head were maintained in good order at a cost of Rs. 65,618 including "Work Establishment."

Irrigation. The total area irrigated during the year was 98,475 acres (Kharif 78,039 acres and Rabi 20,436 acres) against last year's area of 93,553 acres (Kharif 80,675 acres and Rabi 12,878 acres) and the three years' average area of 91,552 acres (Kharif 79,276 acres and Rabi 12,276 acres).

Financial results. The total canal revenue amounted to Rs. 2,38,355 and the total revenue charges were Rs. 96,779, which represents 40.6 per cent. on revenue and Re. 1.0 per acre irrigated, against last year's figures of 35.9 per cent. and Re. 0.9 per acre. The corresponding figures for the previous three years averaged 33.1 per cent. and Rs. 0.8 per acre.

General remarks. The remissions granted during the year amounted to Rs. 26,724 against Rs. 907 remitted last year and Rs. 5,843 the average remissions of the previous three years. The increase in remissions is mainly due to difference in rates of old and new settlements and deficiency of water in places.

The principal crops grown were—

						Acres.
Juari	...	...	...	...	...	53,801
Wheat	...	...	...	...	...	13,214
Bajri	...	...	...	...	...	11,810

and the estimated value of the whole outturn was Rs. 12,52,061 or Rs. 13 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. 3,217 was spent during the year on "Works" only.

Maintenance and Repairs. All the canals were maintained in good order at a cost of Rs. 67,477 including "Work Establishment."

Irrigation. The total area irrigated was 166,417 acres (Kharif 144,140 acres and Rabi 22,277 acres) against 166,998 acres (Kharif 151,732 acres and Rabi 15,266 acres) in the last year and 163,896 acres (Kharif 149,808 acres and Rabi 14,088 acres) the average of the previous three years.

Financial results. The total canal revenue amounted to Rs. 3,31,933 and the revenue charges were Rs. 1,14,978, being 34.6 per cent. on the revenue and Re. 0.7 per acre irrigated against last year's figures of 33.1 per cent. and Re. 0.7 per acre irrigated. The corresponding figures for the previous three years were 29.7 per cent. and Re. 0.6 per acre irrigated.

General remarks. The year's remissions amounted to Rs. 4,769 against Rs. 1,188 remitted last year and Rs. 893 the average remission of the previous three years.

The principal crops grown were—

	Acres.
Bajri	84,815
Cotton	48,028

and the value of the outturn was estimated at Rs. 34,53,987 or Rs. 21 per acre.

34.

3.—Fuleli Canals District.

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

Maintenance and Repairs. The canals were maintained in good order at a cost of Rs. 21,884 inclusive of "Work Establishment."

Irrigation. The total area irrigated during the year was 30,167 acres (Kharif 24,250 acres and Rabi 5,917 acres) against 26,857 acres (Kharif 23,795 acres and Rabi 3,063 acres) in the last year and 24,779 acres (Kharif 21,920 acres and Rabi 2,859 acres) the average of the previous three years.

Financial results. The total canal revenue amounted to Rs. 68,897 and the revenue charges were Rs. 32,400 representing 47.0 per cent. on the revenue and Rs. 1.2 per acre irrigated against last year's figures of 48.5 per cent. on the revenue and Rs. 1.2 per acre irrigated. The corresponding figures for the previous three years averaged 46.4 per cent. and Rs. 1.2 per acre.

General remarks. A sum of Rs. 3,802 was remitted during the year against Rs. 5,152 remitted last year and Rs. 2,166 the average remissions of the previous three years. The year's remissions were mainly due to floods.

The principal crop grown was rice 15,679 acres and the value of the outturn was estimated at Rs. 7,85,993 or Rs. 26 per acre.

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

35. *Agricultural Works.*

A sum of Rs. 19,669 was spent on "Works" only, mainly on constructing a Public Works Inspection bungalow, class I, at Katiar in the Fuleli Canals District and the Las Bund in the Nasrat Canals District.

All the bunds were maintained in good order at a cost of Rs. 51,655 inclusive of "Work Establishment." Of this sum Maintenance and Repairs. Rs. 39,973 were spent on bunds in the Fuleli Canals District, Rs. 9,500 on bunds in the Nasrat Canals District and Rs. 2,182 on the Ren Bund in the Hyderabad Canals District.

In the Nasrat Canals District the Naulakhi Bhorti Bund and the bund between Nasrat and Naulakhi had a very small depth of water against them. The two short bunds, the Mikaro and Tirchi, had a very severe test during the abkalani and stood the strain well. No breaches occurred in either. The Mikaro Bund was raised slightly during the year to make up for settlement. The Ren Bund in the Hyderabad Canals District stood very well during the year under report and no leaks or breach occurred in it. Water stood against all the river bunds in the Fuleli Canals District. The Ghallian Bund was overtopped by the river. A few breaches occurred in this bund and attempts were made to close them, but no earth being available, nothing could be done and they were abandoned. There was severe wave-wash against the Jamshora and Gidu Bunder Bunds. At many places they were only a few inches above the water-level, but were nowhere overtopped. They gave a great deal of trouble, but were protected by spreading tuas and gunny bags on the front slope. They remained intact throughout the season. Along the Hajipur Bund, the higher level, which averaged a foot above that of 1908, combined with strong winds blowing day and night, gave an immense amount of trouble and special precautions had to be taken to keep them secure.

36. The expenditure on and receipts from gardens during the year are compared below with the three previous years' expenditure and receipts :—

Year.	Expenditure on maintenance.	RECEIPTS.	
		As estimated	Actuals.
	Rs.	Rs.	Rs.
1911-12	5,372	2,250	1,515
1912-13	5,437	2,250	1,792
1913-14	4,513	1,800	2,086
1914-15	5,412	1,800	2,437

There is an increase in receipts from gardens in the Division of Rs. 351 and Rs. 639 compared with the last year's receipts and the average receipts of the previous three years.

37. During the year about 11,700 new young trees of various kinds other than babul were reared in canal gardens and nurseries. Of 8,490 trees of various kinds planted along canals and bunds during the year, about 7,740 trees were alive at the

end of the year. Besides these, about 1,350 babul trees were also planted along canal banks and river embankments.

38. The Division was in charge of Major F. M. Westropp, R.E., for 6 months and 22 days, of Mr. G. McC. Harrison for 12 days and of Mr. F. St. J. Gebbie for two months and 24 days, while Mr. R. T. Harrison was in charge for the remaining 2 months.

The following officers were in charge of Executive districts :—

District.	Executive Engineer.	Months in charge.
Nasrat Canals	Mr. H. A. MacArthur ..	1/5
	„ A. A. Musto ...	11½
Hyderabad Canals	„ D. R. Sawhney ...	9
	„ A. B. Timms ...	3
Fuleli Canals	„ C. O. Lowsley ...	12
Eastern Nara	Rao Bahadur V. N. Parulekar	12
Jamrao Canal	Mr. C. W. E. Arbuthnot	5¾
	„ E. P. Watson ...	1
	„ W. L. C. Trench ...	5½

The work of all these officers was most satisfactory, particular credit being due to Messrs. Lowsley, Sawhney, Musto and Timms for the excellent work they and their subordinate staffs performed throughout the trying and anxious period of this year's exceptionally high inundation.

R. T. HARRISON,
Superintending Engineer, Indus Left Bank Division.

Below Irrigation Revenue Report for the year 1914-15.

Address Karachi.

No. C. E.—154 OF 1916.

PUBLIC WORKS DEPARTMENT.

*Office of the Chief Engineer in Sind,
In Comp, dated the 27th January 1916.*

Forwarded, with compliments, to the Secretary to Government, Public Works Department, Bombay.

F. ST. J. GEBBIE,
Chief Engineer in Sind.

THE SECRETARY TO GOVERNMENT,
PUBLIC WORKS DEPARTMENT,
BOMBAY.

APPENDIX I.

L (iv) 539—11

Area of Cultivation and Consolidated Revenue for 1914-1915 and comparison with Irrigation share of

Canals and Executive Districts.				Cultivation.			Consolidated Assessment.		
				Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
1	2	3	4	5	6	7			
MAJOR WORKS.									
PRODUCTIVE WORKS.									
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.									
<i>Canals in Operation.</i>									
Begri Canals District	Desert Canal	93,463	51,317	143,679	3,31,438	1,41,587	3,73,025		
	Unharwah	47,539	28,235	75,074	1,14,486	77,698	1,92,124		
	Begri Canal	164,058	69,800	233,853	4,55,128	2,09,549	6,64,677		
	Total	305,060	149,352	453,635	8,01,052	4,28,834	12,30,886		
Shikarpur Canals District	Mahiwah	44,393	21,731	66,023	1,34,474	72,783	1,97,256		
Jamro Canal District	Jamro Canal	166,793	81,539	248,332	5,59,897	2,76,865	8,36,592		
Nasrat Canals District	Dad Canal	78,723	19,761	98,483	2,19,313	69,325	2,88,638		
	Nasrat Canal	80,244	7,064	87,308	2,51,110	24,076	2,75,186		
	Total	159,066	26,825	185,811	4,70,423	93,401	5,63,824		
Eastern Nara District	Nara Supply Channel	575	8,311	8,886	1,934	23,860	25,794		
	Eastern Nara	23,379	13,015	36,394	49,903	23,778	66,679		
	Mithrao Canal	107,198	21,677	128,875	3,38,855	63,638	4,02,513		
	Thar Canal	67,608	6,188	73,796	1,63,573	17,231	1,80,798		
	Khipro Canal	3,841	849	4,690	5,113	1,034	6,147		
	Hiral Canal	12,230	4,950	17,180	43,003	18,923	60,926		
	Total	193,726	54,731	248,457	5,94,390	1,48,472	7,42,862		
	Total, Major Works	663,160	334,068	1,202,248	26,50,176	10,30,154	36,70,330		
MINOR WORKS.									
IRRIGATION AND NAVIGATION.									
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation.</i>									
Ghar Canals District	Sukkur Canal	63,788	16,828	80,566	2,37,363	80,150	3,17,546		
	Ghar Canal	210,666	37,166	247,832	9,16,431	2,02,913	11,19,344		
	Total	274,454	53,994	328,388	11,53,824	2,83,063	14,36,887		
Karachi Canals District	Suttah Canal	13,868	323	14,191	29,063	414	29,377		
Hyderabad Canals District	Alibhar Kacheri	11,463	4,665	16,118	29,617	15,209	44,819		
	Marak	57,368	12,190	69,558	1,64,327	39,893	2,04,120		
	Sarfriz	23,910	1,649	25,559	53,830	4,716	68,546		
	Total	92,731	18,394	111,125	2,57,724	58,811	3,16,536		
Fuleli Canals District	Fuleli Canal	263,280	54,273	317,553	8,65,092	1,19,915	9,85,007		
	Hassanali Canal	16,811	295	17,116	53,093	613	63,707		
	Total	280,091	54,568	334,659	9,17,187	1,20,527	10,37,714		
Total, Minor Works, Capital and Revenue Accounts		666,202	127,368	793,470	23,57,998	4,62,815	28,20,513		
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation.</i>									
Shikarpur Canals District	Canals in Rohri	33,062	17,063	50,125	1,18,629	63,484	1,82,113		
	Sind Canal	55,103	26,878	80,981	2,18,886	1,00,963	3,19,849		
	Rajib Canal	5,778	3,201	8,979	29,638	15,477	45,100		
	Chitti Canal	4,608	3,897	8,505	25,923	18,406	41,498		
	Garang Canal	2,372	5,123	7,495	19,630	22,323	33,963		
	Total	100,917	55,162	156,079	4,01,070	2,20,635	6,21,706		
Western Nara District.	Nara	200,386	84,770	285,156	8,24,380	3,51,113	11,75,493		
	Manchar	2,096	23,815	25,710	6,924	5,002	62,016		
	Aral	1,632	8,624	10,256	4,416	27,755	33,171		
	Pritchard Canal	8,196	1,245	9,441	31,189	6,774	36,913		
	Wahur	1,364	2,777	4,141	4,401	9,078	13,477		
	Marvi	3,123	1,814	4,937	9,634	6,677	16,111		
	New Feeder, Western Nara	811	77	888	3,279	326	3,605		
	Dadu Canals	6,725	12,974	19,699	19,509	43,478	62,984		
	Phitta Canals	3,621	3,198	6,819	9,734	28,190	37,474		
	Canals, north of Kotri	8,511	5,131	13,642	24,117	5,160	29,267		
	Total	236,268	180,125	416,393	9,36,963	5,33,139	14,69,121		
Karachi Canals District	Kalri	13,550	5,344	18,894	33,552	7,193	40,745		
	Rachar	31,243	5,841	37,084	63,767	9,402	73,259		
	Indus Canals, Right Bank	32,475	2,479	34,914	38,901	3,21	42,140		
	Pinyari	80,784	4,838	85,723	1,88,973	9,291	1,98,334		
	Indus Canals, Left Bank	41,794	623	42,417	94,651	2,14	96,795		
	Total	189,866	19,124	208,930	4,19,850	31,307	4,51,182		

I.

the average of the previous three years showing Increase or Decrease under heads—Kharif, Rabi and Net Consolidated Assessment.

Remissions.			Net Consolidated assessment.	Irrigation share 90 per cent.	Average of previous three years.				Results as compared with the average of the previous three years.			
Kharif.	Rabi.	Total.			Cultivation.			Irrigation share of Net Consolidated assessment.	Cultivation.			Irrigation share of Net Consolidated assessment.
					Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
9	9	10	11	12	13	14	15	16	17	18	19	20
29,306	11,489	40,795	3,32,210	2,98,909	80,340	84,505	114,880	2,34,604	12,122	16,712	28,834	64,885
8,850	3,593	12,213	1,79,883	1,81,894	46,076	16,741	84,817	1,41,369	-297	11,494	11,257	20,525
16,516	9,447	24,963	6,39,714	6,76,743	114,443	36,782	161,224	3,15,111	49,640	39,018	63,658	2,60,632
53,472	24,528	78,000	11,61,806	10,56,028	242,868	89,028	330,866	6,01,054	61,585	61,224	122,749	3,45,642
973	681	1,654	1,95,602	1,76,042	41,554	14,809	56,363	1,47,832	2,738	6,922	9,660	28,710
17,876	1,572	10,448	8,17,144	7,35,420	107,629	63,219	230,848	6,85,416	-836	18,310	17,474	49,984
12,635	2,063	15,718	2,72,920	2,45,629	83,540	12,504	96,044	2,35,019	-4,818	7,257	2,439	10,609
15,979	2,813	18,691	3,56,495	2,30,846	81,274	9,004	90,278	2,48,213	-1,030	-1,920	-2,950	-12,367
29,514	5,595	34,409	5,29,415	4,76,474	164,814	21,608	186,322	4,78,239	-5,848	5,337	-511	-1,758
44	106	240	25,554	22,909	945	2,940	3,885	9,607	-370	5,371	5,001	13,392
268	331	599	66,090	69,481	22,811	12,545	35,356	66,563	639	470	1,008	2,918
4,193	111	4,304	2,98,209	3,58,388	106,812	15,478	122,290	3,43,393	384	6,149	6,533	16,000
638	107	740	1,90,063	1,62,048	62,746	4,431	67,177	1,71,478	-5,241	1,767	-3,454	-9,430
...	...	...	6,147	6,532	2,742	655	3,307	4,753	99	75	174	760
5,225	159	5,384	55,642	49,938	15,182	3,775	18,957	55,472	-2,952	1,175	-1,777	-5464
10,363	904	11,267	7,31,595	6,58,436	201,268	89,734	241,002	6,41,260	-7,542	14,997	7,455	17,178
1,11,189	33,530	1,44,769	34,25,562	30,83,008	619,123	227,286	1,046,421	26,43,354	50,037	106,790	166,827	4,39,654
3,940	1,297	5,237	3,13,306	2,81,075	61,541	8,967	70,508	2,22,727	2,197	7,881	10,069	58,348
12,246	3,697	15,943	11,03,401	9,93,062	208,101	25,019	233,120	9,38,470	-2,565	12,137	14,702	54,593
16,186	4,994	21,180	14,16,707	12,74,137	269,642	53,986	303,628	11,66,197	4,762	19,998	24,760	1,12,940
47	...	47	29,330	26,997	13,323	640	13,963	23,310	749	-318	425	3,087
322	534	856	43,963	39,566	11,631	427	12,058	27,919	-168	4,228	4,060	11,647
2,358	1,669	3,927	2,04,193	1,83,774	69,043	3,730	61,773	1,81,734	-684	8,460	7,776	22,040
...	...	...	63,596	57,236	25,853	1,203	27,055	67,748	-1,943	347	-1,596	-512
2,680	2,103	4,783	3,11,752	2,80,576	95,526	5,369	100,895	2,47,401	-2,795	13,035	10,240	33,175
3,025	3,346	6,371	9,78,636	8,90,773	291,269	38,940	320,193	7,51,100	-12,978	15,333	2,355	1,29,612
66	...	66	62,642	47,378	16,540	212	16,752	43,343	291	83	364	4,035
3,090	3,346	6,436	10,31,278	9,28,160	297,798	39,152	336,950	7,91,603	-12,697	15,416	2,719	1,33,647
21,008	10,443	32,446	27,88,067	25,09,200	676,169	79,137	755,326	22,26,411	-9,987	49,131	39,144	2,82,849
628	120	748	1,81,567	1,63,410	26,991	9,579	36,669	1,17,046	6,081	7,194	13,265	46,364
906	608	1,511	3,18,329	2,86,485	47,057	8,106	55,163	1,69,050	8,046	17,773	25,819	1,17,415
...	53	69	45,018	40,543	5,343	3,163	8,606	33,672	435	38	473	6,871
...	29	29	41,469	37,323	4,634	4,179	8,813	34,079	-32	-282	-314	3,243
...	239	239	52,714	29,443	2,411	2,723	5,139	19,068	-39	2,395	2,356	10,377
1,633	1,046	2,679	6,19,126	5,67,213	86,426	23,055	114,481	3,72,943	14,491	27,107	41,598	1,94,270
1,63,850	30,615	1,93,465	9,92,039	8,92,929	167,525	36,972	234,497	8,31,546	2,261	48,798	51,649	61,280
3,286	17,203	20,489	41,422	37,250	3,945	11,267	15,112	31,918	-1,750	12,349	10,593	6,392
2,423	1,468	3,888	28,283	25,455	2,763	3,400	6,842	17,329	-1,220	4,654	3,414	8,136
1,694	334	2,058	34,855	31,359	7,291	946	8,137	26,346	695	239	1,234	4,533
79	463	542	-19,935	11,641	899	1,124	2,023	5,931	465	1,673	2,113	5,710
1,035	9	1,074	16,037	13,533	2,977	1,367	4,174	11,346	315	447	763	2,187
...	...	...	3,695	3,244	841	76	917	3,394	-30	1	-29	-150
4,700	6,031	9,841	62,753	47,478	7,831	9,520	17,351	44,488	-1,106	3,454	2,348	2,990
5,291	371	5,662	31,812	29,631	4,917	1,494	5,615	12,101	-496	6,701	6,204	16,530
17,679	394	18,973	11,194	10,075	8,261	3,735	11,996	27,311	260	1,393	1,646	-17,309
1,99,258	55,941	2,45,197	12,23,934	11,01,632	235,979	70,395	306,374	10,12,270	284	79,730	8,014	89,263
13,214	...	13,214	27,531	24,278	16,644	2,468	19,112	39,047	-3,094	2,578	-218	-8,269
17,777	331	18,708	55,251	49,728	29,855	2,814	32,669	55,553	1,388	2,727	4,115	-6,127
15,681	191	15,772	28,297	21,657	27,711	1,793	29,414	42,680	-5,276	76	-4,500	-21,623
1,813	2,413	4,255	1,93,979	1,74,551	66,374	6,439	82,664	1,59,241	-5,490	-1,482	-6,972	15,340
223	169	401	96,064	86,755	48,092	3,172	51,174	74,693	-6,208	-2,350	-8,558	12,152
61,627	3,003	64,630	3,96,562	3,56,597	208,456	16,577	225,063	3,65,424	-18,680	2,547	-16,133	-8,527

TABLE

Canals and Executive Districts.				Cultivation.			Consolidated Assessment.		
				Khariif.	Rabi.	Total.	Khariif.	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.									
<i>Canals in operation—continued.</i>									
Nasrat Canals District ...	{	Mehrabwah ...	...	12,184	1,963	14,147	31,991	7,136	39,127
		Naulakhi ...	...	44,826	6,493	50,319	1,43,507	19,345	1,62,852
		Dambro ...	...	11,866	3,033	14,899	36,774	10,551	47,325
		Other Canals ...	...	7,328	6,060	12,388	22,235	18,065	40,290
		Total ...		76,304	15,549	91,853	2,34,507	55,090	2,89,597
Hyderabad Canals District ...	{	Ghoro Mahmado ...	...	60,678	7,283	67,961	1,62,494	18,787	1,81,281
		Kari Shumali ...	...	31,017	1,611	32,628	77,002	4,837	81,839
		Nasir ...	...	27,022	2,916	29,938	69,069	8,448	77,517
		Renwah ...	...	464	588	1,052	1,108	1,866	3,102
		Other Canals ...	...	3,148	2,066	5,214	7,631	7,305	14,936
Total ...		122,519	14,419	136,938	3,17,502	41,413	3,58,915		
Fuleli Canals District ...	Other Canals ...	...	21,985	3,041	25,026	69,553	9,727	79,280	
Total, Minor Works, Revenue Accounts only ...				747,704	257,420	1,005,214	23,79,465	6,90,335	32,69,800
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begari Canals District ...	Kashmore Bund ...	...	3,045	3,794	6,839	6,253	9,989	16,252	
Shikarpur Canals District ...	{	Bunds in Rohri ...	...	97	76	173	219	216	435
		Sukkur-Begari Bunds ...	...	3,043	4,613	6,656	9,455	18,891	28,346
		Kasimpur Bund ...	...	516	1,880	2,396	1,432	6,634	8,068
Total ...		3,655	6,569	9,224	11,106	25,741	36,547		
Ghar Canals District ...	Ghar Bunds ...	...	668	453	1,119	2,845	2,261	5,106	
Western Nara District ...	{	Nara Bund ...	...	2,604	1,617	4,221	10,309	5,979	16,287
		Bunde, north of Kotri ...	...	429	419	848	1,144	611	1,655
Total ...		3,088	3,036	6,123	11,452	6,490	17,942		
Karachi Canals District ...	{	Bunds, Right Bank ...	...	3,950	453	4,403	7,778	684	8,462
		Bunds, Left Bank ...	...	6,363	362	6,725	10,855	612	10,907
Total ...		10,313	815	11,128	18,133	1,476	19,009		
Total Agricultural Works ...				19,765	19,697	39,432	49,759	45,097	96,756
Indus Right Bank Division ...	{	Begari Canals District ...	...	307,423	153,046	460,474	8,07,255	4,39,603	12,46,858
		Shikarpur Canals District ...	...	147,581	63,462	211,043	5,36,650	3,19,169	8,55,819
		Ghar Canals District ...	...	276,070	64,437	340,507	11,66,669	2,85,824	14,52,493
		Western Nara District ...	...	239,349	154,181	393,530	9,46,435	5,78,028	14,87,063
		Karachi Canals District ...	...	314,055	31,281	345,336	4,66,946	38,223	5,00,169
Total ...		1,168,798	463,367	1,632,165	39,15,855	16,15,135	55,31,090		
Indus Left Bank Division ...	{	Jamrao Canals District ...	...	166,793	81,529	248,322	5,59,697	2,76,095	8,35,792
		Eastern Nara District ...	...	193,726	64,731	258,457	5,94,300	1,48,472	7,42,772
		Nasrat Canals District ...	...	236,270	42,594	278,864	7,04,920	1,46,461	8,51,381
		Hyderabad Canals District ...	...	215,250	32,813	248,063	5,75,226	1,00,224	6,75,450
		Fuleli Canals District ...	...	307,066	57,602	364,668	9,65,740	1,30,254	11,16,994
Total ...		1,118,125	269,076	1,387,201	34,21,173	6,04,136	42,25,309		
Total, Sind ...				2,331,921	732,443	3,064,364	73,37,128	24,19,271	97,56,399

Note.—The figures in this statement are assessments.

I—concluded.

Remission.			Net Consol- idated 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 con- solidated 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.
1,538	781	2,307	36,820	33,139	10,344	622	10,966	24,853	1,840	1,341	3,181	8,268
11,637	983	12,620	1,50,250	1,35,225	47,049	4,987	53,036	1,40,241	-2,223	606	-1,717	-5,016
4,599	1,209	5,808	41,427	37,264	11,306	1,201	12,507	32,775	681	1,832	2,492	4,629
4,419	1,495	5,914	34,378	30,938	7,510	3,177	10,687	27,812	-182	1,883	1,701	3,126
22,181	4,543	26,724	2,62,873	2,38,586	76,209	9,987	8,6196	2,25,680	95	5,562	6,657	10,905
1,772	1,306	3,078	1,78,113	1,60,802	62,189	5,431	67,620	1,61,726	-1,321	1,807	486	-1,424
23	72	95	82,044	73,839	32,067	1,562	33,629	75,990	-1,080	49	-1,031	-2,121
.....	23	23	77,544	69,791	29,587	1,504	31,091	71,462	-2,565	1,413	-1,153	-1,671
.....	723	1,152	1,060	1,755	371	428	799	2,087	83	160	243	-332
.....	331	331	14,505	13,055	4,402	993	5,400	12,942	-1,254	1,068	-186	113
2,234	2,545	4,779	3,54,146	3,18,732	129,656	9,923	138,579	3,24,167	-6,137	4,466	-1,641	-5,435
3,058	144	3,202	75,478	67,931	19,486	1,634	21,120	55,685	2,469	1,407	3,906	12,048
2,70,479	67,233	3,37,701	29,32,099	26,39,890	755,242	136,571	891,813	23,56,369	-7,448	120,849	118,401	2,82,521
1,894	415	2,309	13,943	12,549	2,056	1,002	3,058	5,698	989	2,792	3,781	6,681
.....	.....	.....	435	392	87	9	96	256	10	67	77	166
.....	277	331	28,015	25,213	1,397	3,704	5,101	17,064	646	909	1,555	7,243
.....	.....	.....	8,066	7,250	568	432	1,000	3,923	-53	1,448	1,395	4,337
54	277	331	36,516	32,864	3,053	4,145	6,197	21,112	603	2,424	3,027	11,752
.....	.....	.....	5,106	4,595	464	627	791	3,371	202	126	328	1,224
.....	.....	.....	16,287	14,659	2,228	681	2,909	9,619	376	936	1,312	5,047
.....	.....	.....	765	639	53	226	279	867	429	193	622	-178
890	.....	890	17,052	15,349	2,391	907	3,188	10,486	805	1,129	1,934	4,863
6,046	.....	6,046	2,506	2,336	4,117	400	4,517	7,155	-167	53	-1	-4,819
.....	.....	.....	10,967	9,870	4,240	160	4,400	7,278	2,123	202	2,325	2,592
6,046	.....	6,046	13,563	12,206	8,357	560	8,917	14,433	1,956	255	2,211	-2,227
8,894	692	9,576	86,190	77,562	15,210	6,941	22,151	55,070	4,555	6,726	11,281	22,492
55,366	24,943	80,309	11,65,749	10,49,175	244,914	89,030	333,944	6,96,753	62,514	64,016	126,530	3,52,423
2,590	2,004	4,594	8,51,244	7,66,119	130,032	47,009	177,041	5,41,387	17,833	36,453	54,285	2,24,732
16,186	4,999	21,185	14,20,513	12,78,733	270,106	34,318	304,419	11,64,589	4,964	20,124	25,088	1,14,164
1,00,146	55,941	1,56,087	12,40,976	11,16,880	238,260	71,302	309,562	10,22,756	1,099	80,859	81,948	34,124
67,720	3,003	70,723	4,39,445	3,95,500	230,066	17,777	247,843	4,03,167	-15,951	2,464	-13,497	-7,667
3,21,978	90,388	4,12,366	51,18,227	46,06,406	1,113,378	259,431	1,372,809	38,28,630	70,418	203,936	2,74,354	7,77,776
17,876	1,572	19,448	8,17,144	7,35,430	167,629	63,219	230,848	6,85,446	-839	18,310	17,474	40,984
10,353	904	11,257	7,31,585	6,59,439	201,268	39,734	241,002	6,41,260	-7,542	19,997	7,475	17,176
50,605	10,139	60,744	7,02,288	7,13,079	241,023	31,495	272,518	7,03,912	-5,753	10,899	5,149	9,147
4,904	4,648	9,552	6,65,908	5,99,308	224,182	15,283	239,464	5,71,663	-8,932	17,531	8,509	27,750
6,748	3,490	10,238	11,00,758	9,96,061	317,264	40,766	358,070	8,50,388	-10,198	16,823	6,625	1,45,693
90,576	21,052	1,11,628	41,18,681	37,02,314	1,151,386	180,516	1,341,902	34,62,574	-33,261	78,560	45,299	2,40,740
4,12,554	1,11,937	5,24,491	92,31,908	83,08,720	2,264,764	449,947	2,714,711	72,81,204	37,157	262,496	319,653	10,27,516

TABLE II.

Area of Cultivation and Canal Revenue for 1914-1915 and the previous five years.

Year.	CULTIVATION.			Water-share of net consolidated Assessment.	Hakábo.	Miscella- neous.	Total Canal Revenue.	
	Government.	Jághir.	Total.					
1	2	3	4	5	6	7	8	
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	
Indus Right Bank Division.	1909-1910 ...	1,436,584	159,940	1,596,504	41,01,857	1,67,169	67,439	43,36,465
	1910-1911 ...	1,547,985	168,784	1,716,769	44,62,502	1,39,770	81,268	46,83,540
	1911-1912 ...	1,207,427	118,061	1,320,488	35,08,069	1,15,918	71,848	36,95,835
	1912-1913 ...	1,403,629	136,452	1,540,081	38,53,603	1,17,473	72,311	40,43,387
	1913-1914 ...	1,506,896	151,472	1,658,368	41,21,897	1,3,647	72,942	43,29,486
	Average ...	1,420,500	145,942	1,566,442	40,09,586	1,34,995	73,162	42,17,743
	1914-1915 ...	1,647,163	180,461	1,827,624	46,06,406	1,23,538	78,512	48,13,456
Increase or decrease as compared with 1913-1914 ...	140,267	28,989	169,256	4,84,509	-6,109	5,570	4,83,970	
Do. do. with average...	226,663	34,519	261,182	5,96,820	-6,457	5,350	5,95,713	
Indus Left Bank Division.	1909-1910 ...	1,207,819	123,592	1,330,411	31,17,390	54,624	68,856	32,40,370
	1910-1911 ...	1,284,046	121,080	1,405,126	33,16,494	60,400	69,906	34,46,799
	1911-1912 ...	1,292,142	120,157	1,412,299	33,87,512	58,972	78,228	35,24,712
	1912-1913 ...	1,370,713	128,423	1,499,136	35,53,105	55,352	70,408	36,83,865
	1913-1914 ...	1,362,355	126,051	1,488,906	34,12,105	54,471	98,445	35,65,021
	Average ...	1,303,515	123,660	1,427,175	33,53,321	58,784	77,168	34,92,253
	1914-1915 ...	1,387,201	133,943	1,521,144	37,02,314	51,823	61,230	38,15,367
Increase or decrease as compared with 1913-1914 ...	24,346	7,892	32,238	2,90,209	-2,648	-37,215	2,50,346	
Do. do. with average...	83,686	10,283	93,969	3,43,993	-4,941	-15,938	3,23,114	
Total for Sind ...	1909-1910 ...	2,644,383	282,532	2,926,915	72,19,247	2,21,793	1,36,295	75,77,335
	1910-1911 ...	2,832,031	289,864	3,121,895	77,78,996	2,00,170	1,51,173	81,30,339
	1911-1912 ...	2,499,569	233,218	2,732,787	68,95,581	1,74,890	1,50,076	72,20,547
	1912-1913 ...	2,774,342	264,875	3,039,217	74,11,708	1,72,825	1,42,719	77,27,252
	1913-1914 ...	2,869,751	277,523	3,147,274	75,34,002	1,89,118	1,71,887	78,94,507
	Average ...	2,724,015	269,602	2,993,617	73,67,907	1,91,759	1,50,330	77,09,906
	1914-1915 ...	3,034,364	314,404	3,348,768	83,08,720	1,80,361	1,39,742	86,28,823
Increase or decrease as compared with 1913-1914 ...	164,613	36,881	201,494	7,74,718	-8,757	-31,645	-7,34,316	
Do. do. with average...	310,349	44,802	355,151	9,40,813	-11,398	-10,538	-9,18,827	

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

TABLE IV.

Area of Cultivation, Assessment, Realizations and Balances outstanding in respect of Lands in Khelut and Jāghir Lands in Sind for 1914-1915.

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		
	Arees.	Arees.	Arees.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
MAJOR WORKS.													
PRODUCTIVE WORKS.													
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.													
<i>Canals in Operation.</i>													
Bezāri Canals District.	Khelut Lands Foreign.	Desert Canal ...	30,747	25,216	55,963	25,530	64,527	46,770	1,01,207	5,021	1,21,806	72,109	49,637
		Begāri Canal ...	23,277	1,364	25,141	*4,021	27,480	2,273	29,758	3,343	30,437	27,619	2,818
		Total ...	54,024	27,080	81,104	29,551	82,013	49,042	1,31,055	8,364	1,62,243	99,728	52,455
		Desert Canal ...	2,698	1,514	4,110	*378	331	163	416	...	674	676	118
		Unharwah ...	16	37	52	200	112	109	251	...	457	187	270
Total ...	13,873	3,400	17,303	*9,347	4,147	1,470	5,617	...	8,964	6,853	2,111		
	16,484	5,041	21,525	3,931	4,620	1,744	6,364	...	10,285	7,716	2,579		
Shikārpur Canals District—Mābiwah.	1,215	1,159	2,374	781	491	312	833	...	1,614	633	961		
Jāmri Canal District—Jāmri Canal	2,333	1,161	3,494	1,851	1,073	651	1,733	...	3,604	1,067	2,517		
Nasrat Canals District.	Dād Canal ...	4,757	3,921	8,678	-2,447	2,521	655	3,076	...	629	2,871	-2,242	
	Nasrat Canal ...	953	224	592	72	191	39	230	...	302	324	-22	
Total ...	5,115	4,145	9,260	-2,375	2,712	594	3,306	...	931	3,195	-2,264		
Eastern Nara District.	Nāra Supply Channel ...	293	3,164	3,459	3,766	162	336	518	...	4,314	1,425	2,889*	
	Eastern Nara ...	991	104	1,095	49	46	73	629	...	577	503	74	
	Mithra Canal ...	2,362	608	2,960	64	1,303	224	1,627	...	1,621	1,397	224	
	Phar Canal ...	...	...	...	...	...	...	...	...	...	...	...
	Khānpā Canal ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	3,559	3,956	7,514	3,908	1,921	683	2,604	...	6,512	3,325	3,187		
Total, Major Works ...	82,729	42,542	125,271	37,647	92,829	53,086	1,45,915	8,363	1,75,199	1,15,744	59,455		
MINOR WORKS.													
IRRIGATION AND NAVIGATION.													
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Ghar Canals District.	Sukkur Canal ...	2,219	501	2,719	*1,291	808	623	1,516	...	2,807	1,492	1,315	
	Ghar Canal ...	15,189	5,343	20,532	...	2,361	2,046	4,407	...	4,407	4,802	-395	
Total ...	17,408	5,843	23,251	1,291	3,249	2,674	5,923	...	7,214	6,294	620		
Karachi Canals District—Sattah Canal	61	9	70	-45	27	4	31	...	-14	24	-38		
Hyderabad Canals District.	Alibhar Kacheri ...	1,310	320	1,630	501	424	110	534	...	1,035	610	425	
	Mārak ...	6,167	2,660	8,767	41	2,310	887	3,077	...	3,118	2,213	905	
	Sarfrāz ...	3,507	214	3,721	4,816	1,401	69	1,470	...	6,286	1,657	4,629	
Total ...	11,014	3,094	14,108	5,358	4,035	1,046	5,081	...	10,439	4,480	5,959		
Fuleli Canals District.	Fuleli Canal ...	56,436	12,390	68,826	607	27,932	4,442	32,374	...	33,041	29,578	3,563	
	Hasanali Canal ...	923	52	977	-37	403	22	425	...	388	71	317	
Total ...	57,361	12,442	69,803	630	28,335	4,464	32,799	...	33,429	29,649	3,820		
Total, Minor Works, Capital and Revenue Accounts ...	85,844	21,388	107,232	7,234	35,646	8,188	43,834	...	51,068	40,407	10,661		
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.													
<i>Canals in Operation.</i>													
Shikarpur Canals District.	Canals in Rohri ...	8,701	3,692	12,393	1,324	1,276	761	2,037	...	3,361	1,344	2,017	
	Sind Canal ...	4,270	1,809	6,079	*2,123	2,611	72	3,383	...	5,509	2,709	3,000	
	Rajib Canal ...	21	149	170	63	50	45	95	...	163	201	-38	
	Chitti Canal ...	419	185	604	*615	209	120	326	...	941	444	497	
	Garang Canal ...	704	333	1,100	613	279	238	517	...	1,130	433	607	
Total ...	14,175	6,171	20,346	4,746	4,416	1,942	6,358	...	11,104	4,931	6,173		
Bhawalpur Lands Foreign—Canals in Rohri.	...	92	7	99	...	34	3	37	...	37	...	37	
	Nāra New Feeder Western ...	5,805	7,581	13,386	7,165	3,010	3,071	6,081	...	13,243	5,681	7,565	
Western Nāra District.	Nāra ...	...	...	...	...	...	...	...	...	...	...	...
	Wahur ...	...	...	...	...	...	...	...	...	...	...	...
	Māri ...	...	...	...	...	...	...	...	...	...	...	...
	Pritchard Canal ...	...	...	...	-23	...	...	...	...	-23	...	-23
	Plain Canals ...	171	127	301	60	68	61	129	...	179	...	179	
	Phitta Canal ...	415	1,380	1,795	675	218	570	788	...	1,413	636	827	
	Manchar ...	132	270	392	-11	...	...	...	...	-11	...	-11
	Arā ...	141	1,335	1,476	294	62	628	678	...	972	162	810	
Total ...	7,221	12,223	19,444	8,344	3,570	4,587	8,457	...	16,801	6,732	10,069		

* The difference in the figures as compared with the last year is due to adjustments made by the Civil Department.

TABLE IV—concluded.

Canals and Executive Districts.	ARREARS 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.	Rabl.	Total.		Kharif.	Rabl.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	
MINOR WORKS—concluded.												
IRRIGATION AND NAVIGATION—concluded.												
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.												
<i>Canals in Operation—concluded.</i>												
Karachi Canals District.	Kalri ...	526	256	782	-1	333	34	373	...	371	165	206
	Baghar ...	1,933	1,174	3,107	430	774	240	1,020	...	1,450	690	754
	Indus Canal Right Bank ...	459	100	559	-47	119	24	143	...	96	2	94
	Pinyari ...	2,941	38	2,979	656	1,393	13	1,406	...	2,062	1,262	800
	Indus Canals Left Bank ...	164	...	164	210	40	...	40	...	250	25	225
Total ...	6,023	1,568	7,591	1,243	2,604	317	2,921	...	4,229	2,160	2,079	
Nasrat Canals District.	Mehrabwah ...	153	12	165	49	...	...	...	...	49	...	49
	Naulakhi ...	1,948	120	1,168	962	397	72	469	...	1,431	875	556
	Dambro ...	450	264	734	725	259	70	329	...	1,074	842	712
	Other Canals ...	84	15	99	-139	1	...	4	...	-135	63	-108
Total ...	1,735	431	2,166	1,507	660	142	802	...	2,399	1,280	1,119	
Hyderabad Canals District.	Gharo Mahmud ...	13,427	2,979	10,400	-1,953	4,720	1,003	5,723	...	3,709	6,113	-2,344
	Kuri Shumali ...	6,374	250	6,624	2,632	2,47	128	2,375	...	4,907	2,144	2,763
	Nasir ...	1,903	311	2,174	3,267	654	60	734	...	4,001	381	3,620
	Renwah ...	...	...	...	...	...	...	...	...	...	...	...
	Other Canals ...	8	...	8	41	...	...	...	...	41	113	29
Total ...	27,772	3,440	25,212	3,897	7,621	1,210	8,831	...	12,718	8,651	4,067	
Fuleli Canals District.	Other Canals ...	2,265	121	2,386	-225	859	47	906	...	681	196	485
Total, Minor Works, Revenue Accounts only ...	53,253	23,961	77,244	19,597	19,824	8,548	28,372	...	47,969	23,040	24,929	
AGRICULTURAL WORKS.												
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.												
Begari Canals—Kashmir Bund District.	...	...	...	...	...	...	...	...	...	...	...
Shikarpur Canals District.	Bunds in Rohri ...	...	...	...	...	...	...	...	...	...	...
	Sukkur Bund ...	1,859	1,901	3,760	13	...	...	...	...	13	43	-30
Total ...	1,859	1,901	3,760	13	...	...	...	...	13	43	-30	
Ghar Canals District.	Ghar Bunds ...	173	61	234	20	55	6	61	...	61	32	49
Western Nara Canals District.	Nara Bunds North of Kotri ...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	...	...	...	...	...	...
Karachi Canals District.	Bunds, Right Bank ...	292	11	303	79	128	3	131	...	210	19	191
	Bunds, Left Bank ...	329	31	360	-197	71	4	75	...	-122	176	-298
Total ...	621	42	663	-118	199	7	206	...	88	195	-107	
Total, Agricultural Works ...	2,653	2,004	4,657	-85	254	13	267	...	192	270	-88	
<i>Foreign Lands.</i>												
Begari Canals District.	Begari Canals District ...	54,024	27,080	81,104	29,551	82,013	49,042	1,31,055	8,303	1,52,243	99,788	52,455
	Shikarpur Canals do ...	92	7	99	...	34	3	37	...	37	...	37
Total ...	54,116	27,087	81,203	29,551	82,047	49,045	1,31,092	8,301	1,52,280	99,788	52,492	
<i>Jdghir Lands.</i>												
Indus Right Bank Division.	Begari Canals District ...	10,464	5,041	21,525	3,931	4,620	1,744	6,364	...	10,205	7,716	2,579
	Shikarpur Canals District ...	17,249	9,231	26,480	5,540	4,107	2,284	7,191	...	12,731	5,607	7,124
	Ghar Canals District ...	17,581	5,904	23,485	1,311	3,04	2,080	5,094	...	7,205	6,326	969
	Western Nara District ...	7,21	12,223	19,444	3,344	3,470	4,567	8,437	...	16,801	6,732	10,069
	Karachi Canals District ...	6,705	1,819	8,324	1,085	2,890	328	3,218	...	4,309	2,369	1,934
Total ...	63,240	34,018	99,258	20,211	19,241	11,923	31,214	...	51,425	28,760	22,675	
Total ...	119,366	61,105	180,461	49,762	1,01,338	60,968	1,62,306	8,303	2,03,705	1,28,538	75,167	
Indus Left Bank Division.	Jamrao Canal District ...	2,333	1,161	3,494	1,851	1,072	681	1,753	...	3,694	1,087	2,617
	Eastern Nara District ...	3,556	3,066	7,514	3,978	1,921	693	2,604	...	6,512	3,355	3,157
	Nasrat Canals District ...	6,550	4,676	11,426	-776	3,372	736	4,108	...	3,300	4,475	-1,145
	Hyderabad Canals District ...	32,760	6,534	39,320	9,246	11,656	2,256	13,912	...	23,157	13,181	10,026
	Fuleli Canals District ...	59,820	12,563	72,189	405	21,194	4,511	33,705	...	31,110	29,806	4,306
Total ...	105,153	28,790	133,943	14,631	47,215	8,837	56,082	...	70,718	51,823	18,895	
TOTAL, BIND ...	2,24,509	89,895	314,404	64,393	1,48,553	69,835	2,18,388	8,303	2,74,418	1,80,301	94,057	

* The difference as compared with last year is due to adjustments made by the Civil Department.

† Rs. 13 pertains to Khairwah in the Fuleli Canals District but erroneously shown by the Accountant-General in the Finance Accounts Schedules for the year 1914-15 in the Hyderabad Canals District. Necessary transfer of the amount to the proper district will be effected in the Accounts for the year 1915-16.

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, during the year 1914-1915.

Canals and Executive Districts.	REVENUE.				EXPENDITURE.							Revenue Collection Charges.	Total columns 6 to 12.	TOTAL EXPENDITURE.				
	Improvements.				Maintenance and Repairs.									Works.	Establishment.			
	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.	Total.	
					Works.	Works Establishment.	Total.											
1	2	3	4	5	6	7	8	9	10	11	13	13	14	15	16	17	18	
MAJOR WORKS, PRODUCTIVE WORKS, IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.																		
Canals in Operation.																		
Bogdri Canal District.																		
Desert Canal ...	1,992	228	29	2,169	71,708	26,069	97,697	12,290	1,510	1,11,467	20,278	1,31,765	69,689	14,057	20,278	2,469	1,36,422	
Unharwah ...	969	127	14	1,154	30,377	8,559	38,986	5,015	694	44,515	9,791	64,309	39,919	5,720	9,794	1,034	56,407	
Bogdri Canal ...	14,890	1,888	226	16,764	79,231	25,473	1,04,689	18,504	1,899	1,19,892	38,406	1,68,270	1,49,299	17,317	38,406	2,622	1,77,344	
Total ...	17,851	2,243	279	20,373	1,81,316	60,098	2,41,302	30,799	3,768	2,75,864	66,490	3,44,344	2,58,907	37,094	68,490	6,165	3,70,736	
Mahliwah ...	11,574	1,397	68	13,039	51,811	9,928	61,737	7,454	520	6,971	12,669	88,580	73,311	9,469	12,669	4,893	1,00,946	
Jamroo Canal ...	18,242	15,003	172	33,417	98,154	54,380	1,52,534	1,24,907	(a) -8,701 1,438	2,72,187	17,403	2,89,590	1,70,785	1,34,819	17,403	20,372	3,43,466	
Dad Canal ...	7,331	1,774	87	9,192	1,01,643	17,916	1,19,559	26,025	611	1,46,094	17,490	1,63,584	1,26,839	31,347	17,490	4,296	1,50,026	
Nasrat Canal ...	6,133	1,482	60	7,675	42,121	13,932	56,056	13,847	547	70,160	14,169	84,309	62,189	16,636	14,169	2,106	94,028	
Total ...	18,466	3,256	97	21,819	1,62,767	31,847	1,78,914	42,872	1,158	2,19,344	31,649	3,50,993	1,89,079	46,983	31,649	6,406	3,74,116	
Western Canal District.																		
Nara Supply Channel ...	16,965	597	-120	17,442	17,749	535	18,283	2,427	...	20,710	1,485	22,195	19,288	2,427	1,485	340	22,585	
Mithrao Canal ...	21,605	943	-169	22,379	34,769	13,513	48,274	1,655	...	49,744	21,809	71,553	73,979	2,144	21,809	350	97,182	
Thar Canal ...	2,762	96	-19	2,839	7,956	5,480	13,316	468	...	13,888	9,818	23,601	16,087	447	9,818	78	26,403	
Khiproo Canal ...	...	...	...	...	1,697	...	1,697	59	...	1,754	382	3,068	1,997	57	382	3	2,074
Horan Canal ...	...	...	...	...	3,333	3,150	6,483	...	...	6,690	2,467	9,157	6,483	...	2,467	...	9,157
Hiral Canal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	44,819	1,636	-308	46,147	80,216	30,529	1,10,738	6,825	-495	1,16,868	39,728	1,56,596	1,56,050	6,368	39,728	1,008	2,02,139	
Total, Major Works	1,05,097	23,446	388	1,28,800	5,55,318	1,86,671	7,41,934	2,11,257	-317	9,62,874	1,70,219	11,23,093	8,47,031	2,34,723	1,70,219	38,828	12,90,806	
MINOR WORKS, IRRIGATION AND NAVIGATION.																		
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																		
Canals in Operation.																		
Ghakar Canal District.																		
Sinkar Canal ...	...	...	...	...	47,452	9,211	56,663	12,567	441	69,661	20,374	90,028	56,663	15,008	20,374	1,780	91,785
Ghar Canal ...	1,612	334	12	1,958	76,847	20,262	97,109	21,489	764	1,19,448	65,760	1,85,198	98,711	22,639	65,760	3,077	1,90,117	
Total ...	1,612	334	12	1,960	1,24,279	29,563	1,23,842	24,056	1,196	1,80,098	86,114	2,75,207	1,56,364	35,977	86,114	4,837	2,61,902	
Karachi Canal District.																		
Sattah Canal ...	128	17	3	178	9,449	1,325	10,788	1,306	197	12,298	1,769	14,064	10,935	1,623	1,769	186	14,412	
Alhbhar Kachari ...	...	...	...	...	3,212	...	2,212	932	9	3,153	3,149	6,298	3,212	941	3,149	131	6,426
Marak ...	563	237	2	802	21,390	4,899	26,189	11,944	116	37,349	13,454	50,802	26,728	11,909	13,454	1,850	59,196	
Sarfas ...	...	...	...	...	9,500	2,542	12,051	5,079	50	17,150	4,263	21,443	13,051	8,129	4,263	711	22,154
Total ...	563	237	3	802	33,011	7,441	40,462	17,055	174	57,681	20,557	78,633	42,015	17,969	20,557	2,422	61,702	
Fuleli Canal District.																		
Fuleli Canal ...	12,119	3,453	113	15,685	1,97,073	22,870	1,69,842	45,531	1,499	2,00,956	68,976	2,70,941	1,72,071	50,519	68,976	6,866	2,63,496	
Hasanali Canal ...	2,598	733	21	3,322	14,692	3,357	18,019	5,142	189	23,330	2,913	26,243	20,587	6,068	2,913	822	30,395	
Total ...	14,697	4,186	137	19,000	1,51,784	26,227	1,77,961	50,673	1,682	2,20,286	66,894	2,97,189	1,92,658	56,657	66,894	7,689	3,23,699	
Total, Minor Works, Capital and Revenue Accounts are kept	16,924	4,774	164	21,832	3,18,462	64,556	3,83,038	1,02,089	3,286	4,89,355	1,76,018	6,64,938	3,90,992	1,11,345	1,76,033	18,125	7,01,965	
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.																		
Canals in Operation.																		
Sukrapur Canal District.																		
Canals in Rohri ...	435	44	...	479	37,259	5,922	43,216	4,398	1	47,696	9,987	57,493	43,445	4,440	9,987	...	57,972	
Sind Canal ...	46,329	4,610	...	49,940	56,721	9,016	65,787	8,031	...	65,869	17,534	83,400	1,06,115	10,983	17,534	...	1,33,343	
Rajli Canal ...	25	3	...	28	1,350	583	1,971	301	...	2,172	2,473	4,644	1,986	205	2,473	...	4,672	
Chitli Canal ...	1,315	197	...	1,482	2,318	981	3,299	826	...	3,635	2,261	5,896	4,644	473	2,261	...	7,373	
Garny Canal ...	14,913	1,725	...	16,618	2,121	763	2,884	293	...	3,177	1,790	4,967	17,877	1,818	1,790	...	21,465	
Gudu Dhand ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	62,127	6,819	1	68,417	93,949	17,302	1,11,161	11,806	2	1,22,469	33,944	1,56,403	1,73,273	17,628	33,944	...	2,14,960	

(a) Suspense Account.

TABLE V—continued.

Canals and Executive Districts.	REVENUE.				EXPENDITURE.							TOTAL EXPENDITURE.						
	Improvements.				Maintenance and Repairs.							Revenue Collection Charges.	Total, columns 6 to 13.	Establishment.				
	Works.	Regular Estab- lish- ment.	Tools and Plant.	Total.	Clearance Expenditure.			Regular Estab- lish- ment.	Tools and Plant.	Total.	Works.			Public Works Depart- ment, in- cluding Tools and Plant.	Civil Depart- ment—Collection Charges.	Indirect Charges.	Total.	
					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.																		
<i>Canals in Operation—conclud.</i>																		
Western Nara District.	Nara	26,933	4,058	194	30,206	81,861	31,388	1,13,247	17,709	846	1,31,502	54,015	1,85,517	1,39,300	23,897	54,018	...	2,16,022
	New Feeder	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nara	...	...	...	...	...	...	...	...	...	...	195	195	...	...	195	...	195
	Mari	...	...	...	...	3,008	273	3,276	818	34	3,312	912	4,224	3,276	639	781	...	4,894
	Wahur	...	...	...	...	4,835	182	4,217	733	36	5,090	730	5,820	4,317	781	...	...	6,342
	Pritchard	...	...	...	...	94,676	3,927	98,502	15,404	732	1,14,442	1,880	1,16,522	98,502	16,140	1,890	...	1,16,522
	Deoti Canals	...	...	...	...	2,783	1,309	4,053	934	30	4,717	2,646	7,363	4,063	854	...	...	7,585
	Phitta Canal	...	...	...	...	3,061	509	3,551	571	27	4,249	1,529	5,009	3,651	886	...	...	6,029
	Manchar	...	...	...	...	...	...	...	...	...	3,206	3,206	...	...	...	...	...	3,206
	Aral	...	...	...	...	...	...	...	...	...	1,508	1,508	...	...	...	...	...	1,508
	Canals north of Kotri	6,196	969	47	7,213	5,438	1,969	7,327	1,148	55	9,540	568	13,126	13,533	2,219	...	...	16,510
	Virah Bund	...	...	...	...	3,333	110	3,443	583	26	4,037	...	4,007	3,443	661	...	...	4,007
	Total	32,149	5,027	841	37,417	1,09,792	39,564	3,38,320	37,249	1,769	3,77,875	66,522	9,43,097	2,70,475	44,317	66,523	...	8,61,116
Eastern Canals District.	Kahri	201	24	1	226	20,587	2,993	23,170	2,898	146	26,117	1,517	27,434	23,371	2,972	1,517	...	27,606
	Baghar	4,081	488	25	4,584	36,911	6,433	43,344	5,121	264	47,739	3,040	50,769	46,979	5,598	3,040	...	55,313
	Indus Bank	80	6	...	86	19,668	1,483	20,695	3,471	126	23,855	1,298	25,123	20,148	2,688	1,298	...	23,979
	Phyari	17,851	2,163	111	20,165	66,197	10,723	85,920	8,844	418	76,432	10,619	99,351	84,901	10,781	10,919	...	1,06,536
	Indus Canals Left Bank	15,912	1,912	99	17,823	27,066	2,773	29,968	3,611	186	33,636	5,348	39,003	45,670	6,898	5,348	...	55,826
	Total	37,976	4,693	236	43,804	1,53,426	23,964	1,89,390	22,059	1,139	2,06,658	22,922	2,27,956	2,20,365	28,027	22,923	...	2,70,494
Naras Canal District.	Mehrabath	...	...	...	...	15,708	1,622	17,366	4,282	303	21,883	1,981	23,906	17,366	4,457	1,981	...	23,603
	Naukikki	2,069	610	26	2,694	24,747	5,044	29,791	7,349	829	37,490	6,199	45,598	31,890	8,231	6,199	...	48,202
	Dambro	...	...	...	...	6,141	850	6,991	2,407	118	13,228	3,226	14,509	9,761	2,522	2,229	...	14,609
	Other Canals	...	...	...	...	7,191	1,610	8,701	3,146	130	10,960	1,919	12,869	8,701	2,246	1,919	...	12,869
	Total	2,069	610	26	2,694	53,783	11,386	65,619	16,151	776	82,674	14,206	96,799	67,687	17,691	14,206	...	96,393
Huzabad Canal District.	Ghara Mahmudo	1,299	825	5	1,829	33,279	6,063	39,444	15,840	163	55,955	10,474	65,939	40,641	16,538	10,474	...	67,899
	Kari Shumail	1,748	706	7	2,461	3,954	4,056	7,138	2,632	37	10,660	4,633	16,538	8,936	3,823	4,633	...	17,014
	Narsi	...	...	...	...	19,833	3,127	16,980	5,549	70	23,998	4,932	29,116	16,980	6,928	4,932	...	26,110
	Roavah	170	69	1	240	2,737	...	2,737	1,109	11	3,854	8	3,862	2,907	1,167	2,907	...	4,177
	Other Canals	...	...	...	...	1,200	...	1,200	...	...	1,802	707	2,009	1,287	707	...	...	2,009
	Total	3,270	1,330	13	4,530	51,233	13,244	67,477	27,263	279	95,069	10,969	1,14,979	70,094	28,816	19,059	...	1,19,508
Pabli Canals District.	Other Canals	...	...	...	...	19,276	2,608	21,884	6,245	204	28,332	4,067	32,400	21,884	6,440	4,067	...	32,600
	Total, Minor Works, Revenue Accounts only.	1,37,537	47,749	618	1,65,892	5,78,328	1,08,618	6,86,816	1,20,313	4,178	8,11,333	1,60,599	9,71,957	8,24,353	1,42,767	1,60,599	...	11,27,739
AGRICULTURAL WORKS.																		
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																		
Beas Canal District.	Kashmir Bund	450	97	1	548	1,01,772	41,337	1,43,159	30,953	352	1,74,466	761	1,75,316	1,43,609	31,408	761	...	1,76,783
	(Shikhar-Begari Bund	7,720	1,858	83	9,368	64,815	18,280	83,195	17,188	638	1,01,277	1,810	1,02,787	80,016	19,764	1,810	...	1,19,165
	Khanpur Bund	...	...	...	...	3,553	1,981	6,244	1,058	66	6,363	24	6,407	5,241	1,109	24	...	6,407
	Banda Rohri District	14,900	3,078	160	18,138	5,090	3,153	8,843	1,414	74	8,331	433	9,793	21,743	4,726	485	...	23,904
	Total	22,620	4,673	243	27,609	72,678	25,224	95,267	19,685	1,024	1,15,919	1,928	1,17,959	1,17,902	25,623	1,928	...	1,45,496
Other Canals District.	Ghar Bund	...	...	...	...	5,478	5,798	11,276	2,424	86	13,787	278	14,094	11,276	2,810	2	...	14,064
	Total	40,204	8,479	50	48,733	24,868	7,937	32,798	6,916	41	39,759	921	40,673	73,990	15,498	921	...	89,406
Western Nara District.	Nara	6,483	1,367	8	7,858	6,947	666	7,601	1,609	9	9,213	...	9,213	14,094	2,987	...	...	17,071
	Bands north of Kotri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	46,097	9,846	58	56,991	31,810	8,608	40,399	8,519	50	49,968	921	50,838	87,069	18,173	921	...	1,06,477

TABLE V—concluded.

Canals and Executive Districts.	REVENUE.				EXPENDITURE.						Revenue Collection Charges.	Total, columns 6 to 13.	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	Banda, Right Bank ...	55,867	11,817	334	68,018	60,307	3,142	63,449	13,421	360	77,25	164	77,414	1,19,316	25,952	164	1,45,432
	Banda, Left Bank ...	64,727	11,576	337	76,640	68,346	7,110	75,456	15,971	451	91,928	567	92,495	1,30,238	23,326	567	1,56,196
	Total ...	1,10,594	23,393	671	1,34,646	1,28,703	10,252	1,38,955	29,392	832	1,40,170	731	1,40,901	2,49,549	49,278	731	3,04,556
Karachi Buildings District	River District ...	31,140	87,230	1,419	119,789	21,164	...	21,164	38,886	965	61,024	...	61,024	52,304	98,609	...	1,50,318
	Mathematical Instrument Depot ...	...	975	10,099	11,063	...	...	...	...	...	...	...	...	11,063	...	...	11,063
	Total ...	31,140	88,205	11,518	1,00,852	21,164	...	21,164	38,886	965	61,024	...	61,024	52,304	1,09,672	...	1,61,976
West Canals District	Mikar Bund ...	1,169	192	7	1,368	977	661	1,638	269	10	1,916	...	1,916	2,807	477	...	3,284
	Tirchi Bund ...	11	2	...	13	670	168	1,028	168	6	1,202	...	1,202	1,089	176	...	1,316
	Lasbund ...	1,715	281	11	2,007	...	...	...	...	...	...	...	...	1,716	298	...	2,037
	Kaulakhi-Ehorthi Bund ...	...	...	...	...	4,230	1,630	5,760	942	35	6,727	...	6,727	5,760	977	...	6,727
	Bund between Nasrat and Naulakhi Canal Chouki at Daulatpur ...	...	...	...	...	...	290	290	49	2	350	...	350	290	51	...	350
	Reverain Survey Marks ...	...	...	...	...	772	...	772	127	6	904	...	904	772	132	...	904
	Maintaining Bench Marks and Centre Nick line of proposed Rohri-Hyderabad Canal ...	...	...	...	...	9	...	9	...	...	...	...	...	9	3	...	...
	Total ...	2,895	475	18	3,388	6,852	2,649	9,500	1,556	68	11,114	...	11,114	12,39	2,107	...	14,608
Hyderabad Canals District	Kenwah Bund ...	...	...	...	...	2,182	...	2,182	460	...	2,850	...	2,850	2,182	688	...	2,850
	Total ...	...	...	...	...	2,182	...	2,182	460	...	2,850	...	2,850	2,182	688	...	2,850
Fulhi Canals District	Hajipur Bund ...	15,467	3,272	228	18,967	3,906	...	3,906	828	53	4,789	...	4,789	19,372	4,384	...	23,766
	River Bunds ...	1,307	277	19	1,603	31,246	4,822	36,068	7,630	533	44,231	...	44,231	37,376	6,459	...	45,634
	Total ...	16,774	3,549	247	20,570	35,151	4,822	39,973	8,468	591	40,024	...	40,024	56,747	12,943	...	63,690
Total, Agricultural Works ...	2,31,160	1,00,326	12,786	3,44,139	4,05,170	96,717	5,01,887	1,40,349	9,881	6,32,355	4,600	6,37,006	7,33,047	2,43,441	4,660	...	9,81,138
Indus Right Bank Division	Begdri Canals District ...	17,865	2,350	280	20,595	2,63,088	1,01,373	3,64,461	61,752	4,115	4,50,328	69,231	5,19,559	4,02,416	68,497	69,231	5,46,499
	Shikarpur Canals District ...	96,321	13,399	342	1,09,962	2,17,716	60,462	2,78,178	38,445	1,546	3,03,181	48,792	3,51,973	3,64,461	52,722	48,792	4,096
	Ghar Canals District ...	1,512	334	12	1,858	1,29,767	35,801	1,65,568	36,430	1,211	2,02,979	96,392	2,99,371	1,66,634	38,107	86,392	4,837
	Western Nara District ...	78,836	14,873	299	94,008	2,30,572	49,160	2,79,732	45,756	1,63	3,26,340	67,243	3,93,583	3,57,558	62,790	67,243	4,57,591
	Karachi Canals District ...	1,46,781	28,008	900	1,75,689	2,96,597	85,541	3,82,138	62,757	2,168	3,87,053	24,581	4,11,634	4,90,949	83,838	24,581	1,66
	Karachi Buildings District ...	31,140	88,205	11,507	1,00,852	21,164	...	21,164	38,886	965	61,024	...	61,024	52,304	1,09,672	...	1,61,976
	Total ...	3,74,486	1,16,154	13,340	5,03,979	11,78,886	2,70,977	14,49,763	2,74,117	11,905	17,35,785	2,96,239	20,52,024	18,34,248	4,15,516	2,96,239	16,074	25,52,977
Indus Left Bank Division	Jamroo Canal District ...	19,242	15,008	172	34,422	95,164	54,380	1,49,544	1,4,807	-5,263	2,73,187	17,443	2,90,630	1,70,785	1,54,819	17,443	2,03,722
	Eastern Nara District ...	44,312	1,536	308	46,156	60,315	30,523	1,10,738	5,625	-495	1,16,868	89,723	1,65,591	1,55,080	6,363	39,728	1,0,3
	Nasrat Canals District ...	18,428	4,241	14	22,683	2,04,401	43,331	2,47,732	60,209	-10,824	3,00,117	45,854	3,45,971	2,99,160	53,766	45,854	6,406
	Hyderabad Canals District ...	3,780	1,537	16	5,333	69,426	20,035	1,10,111	44,777	-526	1,54,362	40,828	1,95,190	1,18,691	45,803	40,828	2,422
	Fulhi Canals District ...	31,471	7,735	384	39,590	2,06,162	33,657	2,39,819	65,373	2,412	3,07,639	70,961	3,78,600	2,71,269	75,904	70,961	7,690
Total ...	1,16,333	30,052	403	1,46,788	6,78,367	1,85,536	8,63,942	3,00,891	-14,696	11,50,137	2,14,863	13,64,909	9,90,176	3,16,650	2,14,863	87,653	15,46,570
GRAND TOTAL ...	4,90,718	1,46,206	13,743	6,50,667	18,67,343	4,66,462	23,13,705	5,75,006	-2,791	28,86,982	5,11,101	32,97,023	28,04,423	7,32,106	5,11,101	53,987	41,01,617

(a) Suspense account.

TABLE VI.

Cultivation, Canal Revenue and Expenditure for 1914-15, as compared with three previous years.

Table with columns: Canals and Executive Districts, Average of three previous years (Cultivation, Canal Revenue, Maintenance and Revenue Collection), Percentage of Expenditure on Revenue, Cost of Maintenance per acre, 1914-15 (Cultivation, Canal Revenue, Maintenance and Revenue Collection), Percentage of Expenditure on Revenue, Cost of Maintenance per acre, Length in Miles (Main Canals, Branches, Total, Bunds, Total). Rows include Major Works (productive, irrigation not charged against revenue), Minor Works (irrigation and navigation, revenue kept), and Works for which only revenue accounts are kept.

TABLE VI—concluded.

Canals and Executive Districts.	AVERAGE OF THESE PREVIOUS YEARS.					Per-centage of Expendi-ture on Re-venue.	Cost of Main-tenance per acre.	1914-1915.			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 Col-lection.	Cultiva-tion.	Canal Revenue.			Main-te-nance and Revenue Col-lection.	Canals.				Bunds.	Total.			
									Main Canals.	Branches.					Total.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
MINOR WORKS—concluded	Acres.	Rs.	Rs.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Miles.	Miles.	Miles.	Miles.	Miles.		
IRRIGATION AND NAVIGATION—concluded.																	
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT—concluded.																	
<i>Canals in Operation—concluded.</i>																	
Karachi Canals District.	19,519 35,321	31,239 56,431	22,976 36,319	66.8 60.3	1.2 1.0	19,578 39,591	35,377 50,971	27,634 50,769	106.3 99.9	1.4 1.3	36 93	65 67	92 130	...	98 100		
Indus Canals Right Bank Division.	30,419 96,140	44,248 1,63,656	20,110 64,590	45.4 61.6	0.7 0.9	28,473 88,701	31,670 1,80,063	23,923 56,351	110.4 48.0	0.9 1.0	103 51	8 361	111 333	...	111 333		
Indus Canals Left Bank Division.	51,350	74,864	45,163	60.3	0.9	42,780	67,602	32,008	44.5	0.9	167	71	238	...	238		
Total	232,049	3,75,906	2,07,796	55.3	0.9	216,521	3,66,328	2,27,660	63.2	1.1	470	468	983	...	983		
Total, Minor Works, Revenue Accounts only	960,385	24,25,357	8,50,427	55.1	0.9	1,038,468	27,08,308	9,71,337	36.9	0.9	1,314	1,849	2,963	...	2,963		
AGRICULTURAL WORKS.																	
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.																	
Begri Canals District.	3,058	7,712	1,85,724	2,408.2	60.7	6,839	16,013	1,76,315	1,064.2	25.6	...	...	...	121	121
Shikarpur Canals District.	5,273 3,658 33	15,469 9,750 312	1,60,786 3,170 49,762	1,039.4 39.5 28,000.0	30.5 0.9 1,529.8	10,418 2,393 173	28,648 7,325 8,766	1,02,787 6,407 1,668.9	388.9 59.5 50.7	9.9 3.7 ...	...	...	...	67 11 49	87 11 49
Total	8,963	26,481	2,12,718	809.6	24.0	12,984	36,491	1,17,960	823.3	9.1	...	...	...	117	117
Ghar Canal District.	937	2,398	8,798	601.2	9.4	1,353	8,083	14,061	278.3	10.4	...	...	...	46	46
Western District.	2,909 198	9,973 635	26,661 6,115	269.2 903.0	9.2 32.9	4,221 991	14,964 782	60,673 9,213	271.4 1,178.1	9.6 10.2	...	...	...	91 9	91 9
Total	3,098	10,606	32,966	310.8	10.7	6,122	15,766	49,836	316.4	9.7	...	...	...	100	100
Karachi Canals District.	4,726 4,631	6,130 7,572	74,481 1,26,461	916.1 1,670.1	15.8 27.9	4,706 7,065	8,518 11,037	77,414 92,486	1,402.9 828.9	16.5 13.1	...	...	...	62 94	62 94
Total	9,357	13,703	2,00,942	1,279.7	21.7	11,791	16,848	1,69,910	1,037.0	14.4	...	...	...	166	166
Karachi Build-ings District.	...	...	51,432	...	...	...	...	61,024	...	...	...	...	...	...	...
Total	...	193	51,432	...	...	...	276	61,024	22,110.1	...	...	...	...	...	...
Jamrao Canal District	...	...	...	...	...	...	7	...	...	...	...	...	...	...	...
Eastern Wra District	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nasrat Canals District	...	126	10,233	8,121.4	...	...	11	-7,701	(a)...	...	...	...	...	13	13
Hyderabad Canals District	...	6	2,615	40,300.0	...	...	12	1,672	13,933.8	...	...	...	...	8	8
Fuleli Canals District	...	193	53,200	26,603.7	...	...	176	46,976	27,514.0	...	...	...	...	44	44
Total	...	390	65,648	19,963.9	...	...	278	49,846	28,631.7	...	...	...	...	65	66
Total, Agricultural Works	25,310	62,189	7,58,428	1,319.9	30.1	38,099	90,362	6,37,006	705.0	16.7	...	...	...	595	595
Begri Canals District.	404,608	8,09,649	5,89,187	77.8	1.5	583,103	11,72,122	5,19,559	44.3	0.9	306	484	706	121	221		
Shikarpur Canals District.	167,460	5,62,189	4,23,259	70.2	2.3	287,905	7,96,900	3,56,943	45.4	1.4	213	345	558	117	676		
Ghar Canals District.	322,787	11,84,099	3,82,386	23.8	0.9	362,992	13,02,306	2,89,271	22.2	0.8	140	295	433	46	479		
Western District.	386,290	10,50,667	3,23,681	30.7	0.9	410,964	11,43,341	3,93,668	34.4	1.0	353	327	680	100	780		
Karachi Canals District.	265,243	4,14,691	4,30,567	102.9	1.7	242,670	4,09,612	4,11,644	100.5	1.7	499	469	968	146	1,114		
Karachi Buildings District.	...	193	51,432	26,643.7	...	...	276	61,024	22,110.1	...	...	...	...	...	...
Total	1,608,318	50,31,468	21,01,032	62.2	1.6	1,827,624	48,13,456	21,32,024	42.2	1.1	1,411	1,928	5,389	530	3,826		
Jamrao Canal District	234,163	7,24,306	2,94,782	40.7	1.3	251,816	7,59,651	2,60,680	38.2	1.2	117	636	637	...	637		
Eastern Wra District	247,559	6,62,666	2,00,379	30.3	0.8	265,971	36,77,164	1,56,696	23.0	0.8	163	119	261	304	585		
Nasrat Canals District	383,718	7,16,153	3,76,966	52.6	1.3	229,000	7,23,607	3,46,971	47.9	1.2	277	1664	931	13	944		
Hyderabad Canals District	275,873	5,99,957	1,69,736	23.6	0.6	287,383	6,16,718	1,96,188	31.5	0.7	1365	660	915	8	923		
Fuleli Canals District	422,166	8,94,916	3,30,017	44.8	0.9	426,861	10,37,347	3,78,594	36.5	0.9	198	1,068	1,264	44	1,293		
Total	1,466,780	35,91,199	14,41,380	40.1	1.0	1,521,144	38,15,367	13,64,999	36.8	0.9	1,019	3,999	4,018	369	4,387		
Grand Total, Find	2,973,099	76,12,657	35,42,412	46.6	1.2	3,343,708	86,39,623	33,07,023	39.4	1.0	2,430	4,927	7,367	899	8,266		

(a) No percentage is calculated as the expenditure is a minus figure.

* Eastern Wra District. - Decrease of 3 miles in Main Canals, is due to Heran Canal having been abandoned and the whole of the area dependent on that canal has now been transferred to Dim Minor ex Jamrao Canal.

† Nasrat Canals District.—Increase of 6 miles in Branch Canals is due to re-chainage of all the canals of the district.

‡ Hyderabad Canals District.—Increase of— mile in Main Canals is due to new cut to Gharo Mahmud excavated during the year.

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 1911-15.

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 1 10.	Irrigation Share 9 10.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.	
	Táluka.	Village.	Area.	Assessment.						
1	2	3	4	5	6	7	8	9	10	
MAJOR WORKS.										
PRODUCTIVE WORKS.										
IRRIGATION WORKS NOT CHARGED AGAINST REVENUE.										
<i>Canals in Operation.</i>										
Begári Canals District.			Desert Canal ...	574	499	2,018	202½	11,816	79	
			Unharwáh ...	440	658	885	88	797	85	
			Begári Canal ...	963	860	1,939	194	1,745	72	
			Total ...	1,977	2,017	4,842	484	4,358	186	
Shikárpur Canals District.			Mahiwáh ...	348	782	656	66	500	24	
Jámráo Canal District.			Jámráo Canal ...	14,003	18,317	83,119	8,312	74,807	2,992	
Nasrat Canals District.			Dád Canal ...	917	981	2,159	216	1,943	78	
			Nasrat Canal ...	1,327	1,323	4,775	477	4,298	172	
			Total ...	2,244	2,259	6,934	693	6,241	250	
Eastern Nára District.			Nára Supply Channel ...	526	300	651	65	586	23	
			Eastern Nára ...	...	...	...	...	...	...	...
			Mithrao Canal ...	8	14	79	8	71	3	
			Thar Canal ...	232	437	54	5	49	2	
			Khipra Canal ...	...	...	...	...	...	...	...
			Hiral Canal ...	40	74	288	29	259	10	
			Total ...	806	825	1,072	107	965	38	
Total, Major Works ...				19,378	24,200	96,623	9,662	87,253	3,490	
MINOR WORKS.										
IRRIGATION AND NAVIGATION										
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.										
<i>Canals in Operation.</i>										
Ghár Canals District.			Sukkur Canal ...	40	28	599	59	540	21	
			Ghár Canal ...	35	5	248	25	223	9	
			Total ...	75	33	847	84	763	30	
Karachi Canals District.			Sattah Canal ...	3	...	7	1	6	...	
Hyderabad Canals District.			Alibhar Kacheri ...	...	...	19	2	17	1	
			Márak ...	...	...	...	...	...	...	...
			Sarfráz ...	...	...	...	...	...	...	...
			Total ...	...	...	19	2	17	1	
Fuleli Canals District.			Fuleli Canal ...	...	...	7,654	765	6,889	276	
			Hasanali Canal ...	...	...	571	57	514	20	
			Total ...	...	...	8,225	822	7,403	296	
Total, Minor Works, Capital and Revenue Accounts ...				78	33	9,008	909	8,189	327	

Too numerous to mention.

Too numerous to mention.

* Difference for the year 1913-14 adjusted in 1914-15, vide paragraph 2 of Accountant-General's No. B. K. 22-2/2093, dated 13th October 1914.

TABLE VII—continued.

Canals and Executive Districts.	Particulars of the Lands, the Occupancy rights of which were sold.				Amounts of Receipts from sale of Occupancy Rights.	Land Share $\frac{1}{10}$.	Irrigation Share $\frac{9}{10}$.	Sums to be credited as Indirect Revenue calculated at 4 per cent. on Irrigation Share.	Remarks.
	Taluka.	Village.	Area.	Assessment.					
1	2	3	4	5	6	7	8	9	10
MINOR WORKS—continued.									
IRRIGATION AND NAVIGATION—concluded.									
WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.									
<i>Canals in Operation—concluded.</i>									
Shikrapur District.	Canals		Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	
			318	727	517	52	465	19	
			42	98	123	12	111	5	
			62	121	103	10	93	3	
			68	260	82	8	74	3	
			307	892	761	76	685	27	
	Total ...		797	2,008	1,586	158	1,428	57	
Western Nara District.			87	26	323	82	291	12	
			
			
			
			4	...	13	1	12	...	
			
			
			
			
			30	19	122	12	110	4	
	Total ...		121	45	458	45	413	16	
Karachi Canals District.			1,242	1,898	815	81	734	29	
			1,812	3,241	2,819	282	2,537	101	
			854	2,002	1,555	155	1,400	56	
			1,295	2,468	1,970	197	1,773	71	
			467	584	876	88	788	32	
	Total ...		5,670	10,193	8,035	803	7,232	289	
Nasrat Canals District.			...	...	...	...	...	...
			
			
			
	Total ...		...	...	...	...	...	...
Hyderabad Canals District.			1,505	2,200	1,099	110	989	40	
			1,040	923	549	54	495	20	
			...	...	11	1	10	...	
			
			
	Total ...		2,545	3,123	1,659	165	1,494	60	
Fuleli Canals District.			128	312	1,353	136	1,217	49	
	Total, Minor Works, Revenue Accounts only ...		9,261	15,771	13,091	1,307	11,784	471	

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	6	7	8	9	10
MINOR WORKS—concluded.									
AGRICULTURAL WORKS.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Begári Canals District.	Kashmor Bund	...	108	118	212	21	191	8	
Shikárpur Canals District.	Bunds in Rohri	...	...	11	...	...	...	...
	Sukkur-Begári Bund	...	...	...	...	...	...	...
	Kásimpur Bund	...	...	...	...	...	...	...
Total			3	11	...	...	..	...
Ghár Canals District.	Ghár Bunds	...	...	...	...	...	...	...
Western Nára District.	Nára Bunds	...	...	...	...	...	...	...
	Bunds, north of Kotri.	...	...	...	...	...	...	...
Total			...	...	...	...	...	...
Karáchi Canals District.	Bunds, Right Bank	...	39	199	207	20	187	7	
	Bunds, Left Bank	...	39	115	57	6	51	2	
	Total			78	314	264	26	238	9
Total, Agricultural Works			184	443	476	47	429	17	
Indus Right Bank Division.	Begári Canals District.	...	2,080	2,135	5,054	505	{ 4,549 *292	194	
	Shikárpur Canals District	...	1,148	2,891	2,242	224	2,018	81	
	Ghár Canals District..	...	75	33	847	84	763	30	
	Western Nára District	...	121	45	458	45	413	16	
	Karáchi Canals District	...	5,751	10,507	8,306	830	7,476	298	
	Total			9,175	15,611	16,907	1,688	{15,219 *292	619
Indus Left Bank Division.	Jámrao Canal District.	...	14,003	18,317	83,179	8,312	74,807	2,992	
	Eastern Nára District.	...	806	825	1,072	107	965	38	
	Nasrat Canals District	...	2,244	2,259	6,934	693	6,241	250	
	Hyderabad Canals District	...	2,545	3,123	1,678	167	1,511	61	
	Fuleli Canals District.	...	128	812	9,578	958	8,620	345	
Total			19,726	24,836	1,02,381	10,237	92,144	3,686	
Grand Total, Sind			28,901	40,447	1,19,288	11,925	1,07,655	4,305	

Too numerous to mention.

Too numerous to mention.

TABLE VIII.

VIII.

Foreign and Jajhir Lands for five years.

1913-1914.			1914-1915.			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.	
...	32,187	32,187	...	59,208	59,208	...	100	100	...	<i>Kharif.</i>
25,422	160,002	185,424	30,307	111,553	141,860	21	79	100	...	Rice ...
16,774	74,771	91,545	19,633	108,067	127,700	15	85	100	...	Jowari ...
16	695	611	14	473	487	3	97	100	...	Bajri ...
1,622	50,928	52,550	1,919	46,800	48,719	4	96	100	...	Cotton ...
43,834	818,483	862,317	51,873	326,101	377,974	14	86	100	73	Other Crops ...
										Total.
										<i>Rabi.</i>
181	48,082	48,263	176	83,661	83,837	...	100	100	...	Wheat ...
1	83	80	1	127	128	1	99	100	...	Barley ...
10,753	44,959	55,712	3,648	61,950	65,598	6	94	100	...	Oil-seeds ...
31	63,619	68,650	1	83,606	83,607	...	100	100	...	Other Crops ...
10,966	161,748	172,714	3,826	229,344	233,170	2	98	100	37	Total.
54,800	480,231	535,031	55,699	555,445	611,144	9	91	100	100	Grand Total.
										<i>Kharif.</i>
2	27,737	27,739	...	43,653	43,653	...	100	100	...	Rice ...
30,461	61,662	92,123	24,918	68,329	93,247	27	73	100	...	Jowari ...
3,463	9,320	17,788	7,035	10,748	17,783	40	60	100	...	Bajri ...
275	756	1,030	227	604	831	27	73	100	...	Cotton ...
1,468	7,622	9,040	887	8,804	9,691	9	91	100	...	Other Crops ...
40,664	107,096	147,760	33,067	132,138	165,205	20	80	100	57	Total.
										<i>Rabi.</i>
494	53,145	53,639	1,124	73,683	74,807	2	98	100	...	Wheat ...
5	178	183	3	251	254	1	99	100	...	Barley ...
4	8,164	8,168	99	12,687	12,786	1	99	100	...	Oil-seeds ...
4	19,334	19,338	37	38,091	38,128	...	100	100	...	Other Crops ...
507	80,821	81,328	1,263	124,712	125,975	1	99	100	43	Total.
41,171	187,917	229,088	34,330	256,850	291,180	12	88	100	100	Grand Total.
										<i>Kharif.</i>
6	217,343	217,349	...	217,195	217,195	...	100	100	...	Rice ...
20,581	33,992	54,573	20,511	38,793	59,304	35	65	100	...	Jowari ...
2,874	2,385	5,259	3,160	1,751	4,911	64	36	100	...	Bajri ...
24	36	60	14	65	79	18	82	100	...	Cotton ...
2,519	8,731	11,250	2,185	8,989	11,174	20	80	100	...	Other Crops ...
26,004	262,437	288,491	25,870	266,793	292,663	9	91	100	58	Total.
										<i>Rabi.</i>
1,945	45,444	47,389	2,238	54,976	57,214	4	96	100	...	Wheat ...
6	49	55	17	114	131	13	87	100	...	Barley ...
500	39,781	40,281	2,817	51,161	53,978	5	95	100	...	Oil-seeds ...
236	88,354	88,650	376	101,479	101,855	...	100	100	...	Other Crops ...
2,747	173,623	176,375	5,448	207,730	213,178	3	97	100	42	Total.
28,751	436,115	464,866	31,318	474,523	505,841	6	94	100	100	Grand Total.
										<i>Kharif.</i>
...	175,293	175,293	...	169,652	169,652	...	100	100	...	Rice ...
37,591	26,632	64,223	32,788	34,780	67,563	49	51	100	...	Jowari ...
5,629	1,611	7,240	2,973	2,138	5,111	68	42	100	...	Bajri ...
341	33	374	205	76	281	73	27	100	...	Cotton ...
1,270	3,525	4,795	882	3,081	3,963	22	78	100	...	Other Crops ...
44,831	207,094	251,925	36,843	209,727	246,570	15	85	100	48	Total.

TABLE

Canals, Districts and Crops.		1910-1911.			1911-1912.			1912-1913.		
		Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Western Nára— (concl'd.)	<i>Rabi.</i>									
	Wheat ...	11,801	48,322	60,123	5,375	39,412	41,787	8,629	41,988	50,617
	Barley ...	168	2,267	2,435	397	2,111	2,508	494	1,629	2,023
	Oil-seeds ...	2,084	55,959	58,043	1,007	46,779	47,786	1,577	46,661	48,238
	Other Crops..	401	66,562	66,963	355	73,125	73,480	571	72,296	72,867
	Total ...	14,454	173,110	187,564	7,184	161,427	168,561	11,271	162,474	173,745
	Grand Total.	65,816	872,162	437,978	49,477	348,665	398,142	56,302	386,632	442,934
Karachi Canals.	<i>Kharif.</i>									
	Rice ...	118	214,003	214,121	233	213,851	214,084	297	226,202	226,499
	Jowári ...	1,233	38	1,321	313	440	753	625	106	731
	Báji ...	14,590	1,949	16,539	7,225	2,698	9,823	8,494	719	9,213
	Cotton ...	7	...	7	28	...	28	3	...	9
	Other Crops..	8,041	1,401	4,442	2,315	1,579	3,894	3,048	1,694	4,742
	Total ...	19,039	217,391	236,430	10,114	218,468	228,552	12,467	228,721	241,188
	<i>Rabi.</i>									
	Wheat ...	...	182	182	...	82	82	...	107	107
	Barley ...	1,025	10,486	11,511	10	3,093	3,108	4	5,688	5,692
	Oil-seeds ...	...	6,283	6,283	...	5,544	5,544	...	10,073	10,073
	Other Crops..	...	19,806	19,806	78	19,109	19,187	150	19,767	19,917
	Total ...	1,025	36,767	37,782	88	27,383	27,921	164	35,685	35,789
	Grand Total.	20,064	254,148	274,212	10,202	246,301	256,503	12,621	264,356	276,977
Indus Right Bank Division.	<i>Kharif.</i>									
	Rice ...	300	752,117	752,417	233	674,182	674,415	313	644,351	644,664
	Jowári ...	134,808	261,358	391,166	102,627	158,223	260,850	126,865	254,056	380,421
	Báji ...	39,568	58,207	97,775	36,405	50,713	87,118	43,192	109,994	159,186
	Cotton ...	458	713	1,171	1,460	788	2,248	932	903	1,335
	Other Crops..	10,744	63,057	73,801	10,465	59,773	70,238	9,741	65,138	74,879
	Total ...	185,878	1,735,452	1,321,330	151,190	943,679	1,094,869	180,543	1,074,442	1,254,985
	<i>Rabi.</i>									
	Wheat ...	13,791	220,438	234,229	7,436	140,833	148,269	11,659	180,925	192,584
	Barley ...	1,205	13,355	14,560	412	5,635	6,047	526	706	8,032
	Oil-seeds ...	2,851	134,198	137,049	1,659	103,960	105,819	1,800	98,713	100,513
	Other Crops..	704	359,903	360,607	855	240,912	241,767	939	233,003	233,942
	Total ...	18,551	727,894	746,445	10,562	491,340	501,902	14,924	520,147	535,071
	Grand Total.	204,429	1,863,346	2,067,775	161,752	1,435,019	1,596,771	195,467	1,594,589	1,790,056
Eastern Nára...	<i>Kharif.</i>									
	Rice ...	122	124,034	124,156	280	129,366	129,646	596	125,740	126,336
	Jowári ...	1,345	311	1,656	1,143	247	1,390	2,279	784	3,063
	Báji ...	17,722	11,819	29,541	13,120	11,006	24,126	26,734	18,768	45,502
	Cotton ...	8,364	13,137	21,501	10,874	22,559	33,433	16,276	20,130	35,415
	Other Crops..	1,777	564	2,341	1,070	991	2,061	1,268	906	2,174
	Total ...	29,330	149,865	179,195	26,487	164,169	190,656	46,153	166,337	212,490
	<i>Rabi.</i>									
	Wheat ...	2,019	41,727	43,746	3,362	34,069	37,431	1,617	25,068	26,685
	Barley ...	57	255	312	56	333	389	34	202	236
	Oil-seeds ...	328	15,734	16,062	764	7,394	8,158	909	7,990	8,899
	Other Crops..	551	8,528	9,079	547	9,001	9,548	426	8,031	8,457
	Total ...	2,955	66,244	69,199	4,729	50,707	55,526	2,986	41,291	44,277
	Grand Total.	32,285	216,109	248,394	31,216	214,966	246,182	49,139	207,628	256,767

VIII—continued.

1913-1914.			1914-1915.			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.	
12,149	37,276	40,425	28,565	50,321	78,886	86	64	100	...	<i>Rabi.</i>
905	1,914	2,819	932	3,780	4,712	20	30	100	...	Wheat... ..
1,832	48,172	50,054	4,672	106,164	110,836	4	96	100	...	Barley... ..
557	62,356	62,913	1,438	75,808	77,246	2	98	100	...	Oil-seeds... ..
										Other Crops... ..
15,493	119,718	165,211	35,807	236,073	271,680	13	87	100	52	Total
60,324	356,812	417,136	72,450	445,800	518,250	14	86	100	100	Grand Total.
										<i>Kharif.</i>
120	224,449	224,575	14	309,802	209,816	...	100	100	...	Rice... ..
926	322	1,248	762	119	881	86	14	100	...	Jowari... ..
8,262	3,019	11,381	5,919	887	6,806	87	13	100	...	Bajri... ..
6	...	6	4	...	4	100	...	100	...	Cotton... ..
1,950	1,419	3,369	2,030	1,259	3,283	62	38	100	...	Other Crops... ..
11,270	229,209	240,479	8,729	212,061	220,790	4	96	100	84	Total
										<i>Rabi.</i>
...	279	279	...	284	284	...	100	100	...	Wheat... ..
...	9,801	9,801	...	11,060	11,060	...	100	100	...	Barley... ..
...	17,859	17,859	...	11,775	11,775	...	100	100	...	Oil-seeds... ..
501	22,325	22,826	243	17,845	18,088	1	99	100	...	Other Crops... ..
501	50,264	50,765	243	40,964	41,207	1	99	100	16	Total
11,771	279,473	291,244	8,972	253,025	261,997	3	97	100	100	Grand Total.
										<i>Kharif.</i>
134	677,009	677,143	14	699,510	699,524	...	100	100	...	Rice... ..
114,931	282,610	397,591	109,331	253,574	362,855	30	70	100	...	Jowari... ..
42,007	91,106	133,113	88,720	123,591	162,311	76	24	100	...	Bajri... ..
662	1,419	2,081	464	1,218	1,682	28	72	100	...	Cotton... ..
8,819	72,225	81,044	7,903	68,927	76,830	10	90	100	...	Other Crops... ..
166,603	1,124,369	1,290,972	156,882	1,146,820	1,303,202	12	88	100	60	Total
										<i>Rabi.</i>
14,769	184,226	198,995	32,103	262,925	295,028	11	89	100	...	Wheat... ..
917	12,030	12,947	958	15,332	16,285	6	94	100	...	Barley... ..
13,139	158,935	172,074	11,286	243,737	254,973	4	96	100	...	Oil-seeds... ..
1,359	260,988	262,377	2,095	316,829	318,924	1	99	100	...	Other Crops... ..
30,214	616,179	646,393	46,387	838,823	885,210	5	95	100	40	Total
196,817	1,740,548	1,937,365	202,769	1,985,643	2,188,412	9	91	100	100	Grand Total.
										<i>Kharif.</i>
1,167	121,287	122,454	751	112,325	113,076	1	99	100	...	Rice... ..
2,380	936	3,316	499	891	1,330	98	62	100	...	Jowari... ..
25,074	11,482	36,556	20,131	12,640	32,771	61	39	100	...	Bajri... ..
22,669	29,892	52,561	19,304	28,517	47,821	40	60	100	...	Cotton... ..
1,373	685	2,058	1,393	770	2,168	64	36	100	...	Other Crops... ..
52,663	164,282	216,945	42,083	155,083	197,166	21	79	100	76	Total
										<i>Rabi.</i>
2,525	21,902	24,427	2,353	40,041	42,394	6	94	100	...	Wheat... ..
19	202	221	30	454	484	6	94	100	...	Barley... ..
733	11,237	11,970	1,078	10,747	11,825	9	91	100	...	Oil-seeds... ..
218	6,313	6,531	445	8,726	9,171	5	95	100	...	Other Crops... ..
3,495	39,654	43,149	3,906	59,968	63,874	6	94	100	21	Total
56,158	203,936	260,094	45,989	215,051	261,040	18	82	100	100	Grand Total.

Western Nara—
(concl'd.)

Karachi Canals.

Indus Right
Bank Division.

Eastern Nara.

TABLE

Canals, Districts and Crops.	1910-1911.			1911-1912.			1912-1913.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Nasrat Canals									
<i>Kharij.</i>									
Rice ...	81	16,436	16,517	3	15,213	15,216	2	14,528	14,530
Jowari ...	62,774	89,648	102,422	49,114	32,914	82,028	62,876	38,667	101,543
Bajri ...	50,885	22,398	73,283	47,791	13,407	61,198	56,988	26,395	85,383
Cotton ...	13,827	33,169	46,996	25,981	41,601	67,582	11,803	27,055	38,858
Other Crops ...	7,086	13,494	20,580	6,098	10,930	17,023	4,114	8,550	12,664
Total ...	134,653	125,145	259,798	128,987	114,065	243,052	137,783	115,195	252,978
<i>Rabi.</i>									
Wheat ...	752	18,412	19,164	644	12,118	12,762	1,215	15,954	17,169
Barley ...	18	1,811	1,829	38	873	911	88	995	10,83
Oil-seeds ...	30	20,085	20,115	43	12,809	12,852	51	19,120	19,171
Other Crops ...	29	4,202	4,231	42	3,743	3,785	61	3,970	4,031
Total ...	829	44,510	45,339	767	29,543	30,310	1,415	40,039	41,454
Grand Total.	135,482	169,655	305,137	129,754	143,608	273,362	139,198	155,234	294,432
Hyderabad Canals.									
<i>Kharij.</i>									
Rice ...	...	5,371	5,371	...	6,691	6,691	3	6,425	6,428
Jowari ...	6,616	1,189	7,805	6,600	528	7,128	8,427	984	9,411
Bajri ...	126,854	15,843	142,697	123,696	11,598	135,294	154,136	17,518	171,654
Cotton ...	63,075	10,512	73,587	80,861	8,996	89,857	64,882	8,383	73,265
Other Crops ...	7,319	807	8,126	6,159	762	6,921	6,066	506	6,572
Total ...	203,864	33,722	237,586	217,316	28,575	245,891	233,514	33,816	267,330
<i>Rabi.</i>									
Wheat ...	712	8,446	9,158	530	3,297	3,827	1,132	5,929	7,061
Barley ...	...	5	5	5	8	13	3	13	16
Oil-seeds ...	760	22,744	23,504	184	2,612	2,796	229	6,121	6,350
Other Crops ...	171	7,677	7,848	332	8,139	8,471	473	9,020	9,493
Total ...	1,643	38,872	40,515	1,051	14,056	15,107	1,837	21,083	22,920
Grand Total.	205,507	72,594	278,101	218,367	42,631	260,998	235,351	54,899	290,250
Fuleli Canals...									
<i>Kharij.</i>									
Rice ...	100	237,831	237,931	40	250,400	250,440	101	275,272	275,373
Jowari ...	2,595	1,001	3,596	2,387	1,158	3,545	2,845	839	3,684
Bajri ...	78,180	6,915	85,095	57,938	10,057	67,995	78,055	6,851	84,906
Cotton ...	22,680	2,383	25,063	22,037	5,499	27,536	16,655	736	17,391
Other Crops ...	6,997	1,650	8,647	5,823	1,895	7,718	7,303	1,514	8,817
Total ...	110,552	249,780	360,332	88,225	269,009	367,234	104,959	285,212	390,171
<i>Rabi.</i>									
Wheat ...	457	9,770	10,227	553	9,979	10,532	1,934	8,191	10,125
Barley ...	84	1,426	1,510	146	2,064	2,200	69	2,172	2,241
Oil-seeds ...	156	16,356	17,012	351	37,084	37,435	199	15,380	15,579
Other Crops ...	1,943	16,306	18,249	776	20,239	21,015	445	16,256	16,701
Total ...	2,640	44,358	46,998	1,826	69,356	71,182	2,647	41,999	44,646
Grand Total.	113,192	294,138	407,330	90,051	338,365	428,416	107,606	327,211	434,817

VIII—continued.

1913-1914.			1914-1915.			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.	
15	13,735	13,740	95	14,208	14,208	1	99	100	...	<i>Kharif.</i>
70,798	40,481	111,279	64,986	48,942	118,878	57	43	100	...	Rice ...
53,008	19,004	72,012	37,589	12,653	50,222	75	25	100	...	Jowari ...
13,399	25,642	41,041	17,364	27,266	44,630	39	61	100	...	Bajri ...
6,274	9,579	15,853	7,364	11,723	19,092	39	61	100	...	Cotton ...
										Other Crops ...
145,194	108,481	253,925	127,328	114,792	242,120	53	47	100	80	Total.
										<i>Rabi.</i>
463	17,962	18,425	2,584	24,401	26,985	10	90	100	...	Wheat ...
12	945	957	184	2,177	2,361	8	92	100	...	Barley ...
11	24,560	24,571	518	23,729	24,247	2	38	100	...	Oil-seeds ...
...	4,030	4,030	772	4,925	5,697	14	86	100	...	Other Crops ...
486	47,497	47,983	4,058	55,232	59,290	7	93	100	20	Total.
145,980	155,923	301,908	131,386	170,024	301,410	44	56	100	100	Grand Total.
										<i>Kharif.</i>
6	4,342	4,348	11	5,016	5,027	...	100	100	...	Rice ...
8,154	1,092	9,246	7,109	973	8,082	88	12	100	...	Jowari ...
141,058	14,331	155,389	128,158	14,361	143,019	90	10	100	...	Bajri ...
71,510	9,042	80,552	73,237	10,251	83,488	88	12	100	...	Cotton ...
7,783	490	8,273	7,722	547	8,269	93	7	100	...	Other Crops ...
228,511	30,297	258,808	216,237	31,643	247,885	87	13	100	93	Total.
										<i>Rabi.</i>
557	5,810	6,367	815	11,212	12,027	7	93	100	...	Wheat ...
4	4	8	...	19	19	...	100	100	...	Barley ...
383	8,605	8,990	330	22,239	22,569	1	99	100	...	Oil-seeds ...
230	10,582	10,812	296	14,424	14,720	2	98	100	...	Other Crops ...
1,176	25,001	26,177	1,441	47,894	49,335	3	97	100	17	Total.
229,337	55,298	284,985	217,678	79,542	237,220	73	27	100	100	Grand Total.
										<i>Kharif.</i>
176	263,302	264,078	48	246,945	246,993	...	100	100	...	Rice ...
3,673	783	4,456	3,478	1,851	5,329	65	35	100	...	Jowari ...
77,396	6,223	83,619	71,678	9,670	81,348	87	13	100	...	Bajri ...
22,256	1,773	24,029	19,373	3,016	22,389	86	14	100	...	Cotton ...
8,707	1,764	10,471	8,050	2,403	10,453	77	23	100	...	Other Crops ...
112,208	274,445	386,653	102,827	263,885	366,712	28	72	100	82	Total.
										<i>Rabi.</i>
371	7,838	8,149	1,593	11,827	12,920	12	88	100	...	Wheat ...
33	718	751	104	2,167	2,371	5	95	100	...	Barley ...
645	16,625	17,270	416	42,723	43,139	1	99	100	...	Oil-seeds ...
4,567	13,291	17,858	2,611	19,119	21,730	12	88	100	...	Other Crops ...
5,556	38,472	44,028	4,724	75,336	80,060	6	94	100	13	Total.
117,764	312,917	430,681	107,551	339,221	446,772	24	76	100	100	Grand Total.

TABLE

Canals, Districts and Crops.	1910-1911.			1911-1912.			1912-1913.		
	Lift.	Flow.	Total.	Lift.	Flow.	Total.	Lift.	Flow.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
<i>Khariif.</i>									
Rice ...	...	1,002	1,002	3	2,881	2,884	...	177	177
Jowári ...	1,080	2,481	3,561	1,296	2,668	3,964	1,367	4,962	6,329
Bájrí ...	17,488	20,398	37,886	13,581	17,879	31,760	19,037	29,439	48,476
Cotton ...	30,811	70,893	101,739	32,040	79,009	111,049	23,910	84,828	113,738
Other Crops ...	1,524	5,151	6,675	1,087	4,552	5,639	884	3,506	4,390
Total ...	50,933	99,930	150,863	48,307	106,989	155,296	50,198	122,912	173,110
Jámrao Canal.									
<i>Rabi.</i>									
Wheat ...	6,225	33,279	39,504	9,763	44,449	54,212	11,024	49,114	60,138
Barley ...	124	477	601	435	1,511	1,946	338	856	1,194
Oil-seeds ...	330	2,610	2,940	616	3,064	3,680	714	3,434	4,148
Other Crops ...	764	3,509	4,273	2,312	13,437	15,749	1,287	9,411	10,698
Total ...	7,443	39,875	47,318	13,126	62,461	75,587	13,363	62,815	76,178
Grand Total.	58,376	139,805	198,181	61,433	169,450	230,883	63,561	185,727	249,288
<i>Khariif.</i>									
Rice ...	303	384,674	384,977	326	404,551	404,877	70	422,142	422,844
Jowári ...	74,410	44,630	119,040	60,540	37,515	98,055	77,794	46,236	124,030
Bájrí ...	291,129	77,373	368,502	256,426	63,947	320,373	336,950	98,971	435,921
Cotton ...	138,787	130,099	268,886	171,793	157,664	329,457	137,526	141,141	278,667
Other Crops ...	21,703	21,666	43,369	21,237	19,130	39,367	19,635	14,982	34,617
Total ...	523,332	658,442	1,187,774	509,322	682,807	1,192,129	572,607	723,472	1,296,079
Indus Left Bank Division.									
<i>Rabi.</i>									
Wheat ...	10,165	111,634	121,799	14,852	103,912	118,764	16,922	104,256	121,178
Barley ...	283	3,974	4,257	680	4,779	5,459	532	4,238	4,770
Oil-seeds ...	1,604	73,029	79,633	1,958	62,963	64,921	2,102	52,045	54,147
Other Crops ...	3,458	40,222	43,680	4,009	54,559	58,568	2,692	46,688	49,380
Total ...	15,510	233,859	249,369	21,499	226,213	247,712	22,248	207,227	229,475
Grand Total.	544,842	892,301	1,437,143	530,821	909,020	1,439,841	594,855	930,699	1,525,554
<i>Khariif.</i>									
Rice ...	603	1,136,791	1,137,394	559	1,078,733	1,079,292	1,015	1,066,493	1,067,508
Jowári ...	209,218	305,988	515,206	163,167	195,738	358,905	204,169	300,292	504,451
Bájrí ...	330,697	135,580	466,277	292,831	114,660	407,491	380,142	208,965	589,107
Cotton ...	139,245	130,812	270,057	173,253	158,452	331,705	138,458	142,044	280,502
Other Crops ...	35,447	84,723	120,170	30,702	78,903	109,605	29,376	80,120	109,496
Total ...	715,210	1,793,894	2,509,104	660,512	1,626,486	2,286,098	753,160	1,797,914	2,551,064
Total for Sind.									
<i>Rabi.</i>									
Wheat ...	23,956	332,072	356,028	22,288	244,745	267,033	28,581	285,181	313,762
Barley ...	1,488	17,329	18,817	1,092	10,414	11,506	1,058	11,744	12,802
Oil-seeds ...	4,455	212,227	216,682	3,817	166,923	170,740	3,902	150,758	154,660
Other Crops ...	4,162	400,125	404,287	4,864	295,471	300,335	3,631	279,691	283,322
Total ...	34,061	961,753	995,814	32,061	717,553	749,614	37,172	727,374	764,546
Grand Total.	749,271	2,755,647	3,504,918	692,573	2,344,039	3,036,612	790,322	2,525,288	3,315,610

VIII—concluded.

1913-1914.			1914-1915.			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>
1,945	2,024	3,969	1,496	5,601	7,097	21	79	100	...	Rice	
19,348	25,291	44,642	14,942	17,447	32,389	46	54	100	...	Jowári	
32,807	91,850	124,657	38,406	91,815	125,221	27	73	100	...	Bájni	
1,108	3,551	4,659	1,165	3,218	4,373	26	74	100	...	Cotton	
										...	Other Crops
64,308	123,619	177,927	50,999	118,081	169,080	30	70	100	65	Total.	
										<i>Rabi.</i>	
7,608	42,167	49,175	11,033	57,833	68,866	16	84	100	...	Wheat	
138	720	858	190	457	637	28	72	100	...	Barley	
408	2,564	2,972	337	2,618	2,955	11	89	100	...	Oil-seeds	
926	7,759	8,685	2,533	15,487	18,020	14	86	100	...	Other Crops	
8,480	53,210	61,690	14,083	76,395	90,478	16	84	100	35	Total.	
62,788	176,829	239,617	65,082	194,476	259,558	25	75	100	100	Grand Total.	
										<i>Kharif.</i>	
1,364	403,756	405,120	905	378,489	379,394	...	100	100	...	Rice	
86,050	46,216	132,266	77,518	63,198	135,716	57	43	100	...	Jowári	
315,884	76,834	392,718	272,478	67,271	339,749	80	20	100	...	Bájni	
164,641	158,199	322,840	162,884	160,865	323,749	50	50	100	...	Cotton	
23,245	18,069	41,314	25,689	18,666	44,355	58	42	100	...	Other Crops	
593,184	701,074	1,294,258	539,474	683,489	1,222,963	44	56	100	78	Total.	
										<i>Rabi.</i>	
10,864	95,679	106,543	18,378	144,814	163,192	11	89	100	...	Wheat	
206	2,589	2,795	498	5,274	5,772	9	91	100	...	Barley	
2,132	63,591	65,723	2,679	102,056	104,735	3	97	100	...	Oil-seeds	
5,941	41,975	47,916	6,657	62,681	69,338	10	90	100	...	Other Crops	
19,193	203,834	223,027	28,212	314,825	343,037	8	92	100	22	Total.	
612,377	904,908	1,517,285	567,686	998,314	1,566,000	36	64	100	100	Grand Total.	
										<i>Kharif.</i>	
1,498	1,080,765	1,082,263	919	1,077,999	1,078,918	...	100	100	...	Rice	
201,031	328,326	529,357	186,799	311,772	498,571	37	63	100	...	Jowári	
357,891	167,940	525,831	311,198	190,862	502,060	62	38	100	...	Bájni	
165,303	159,618	324,921	163,343	162,083	325,426	50	50	100	...	Cotton	
34,064	88,294	122,358	33,592	87,593	121,185	28	72	100	...	Other Crops	
759,787	1,825,443	2,585,230	695,856	1,830,309	2,526,165	28	72	100	67	Total.	
										<i>Rabi.</i>	
25,633	279,905	305,538	50,481	407,739	458,220	11	89	100	...	Wheat	
1,123	14,619	15,742	1,451	20,606	22,057	7	93	100	...	Barley	
15,321	222,526	237,847	13,915	345,793	359,708	4	96	100	...	Oil-seeds	
7,330	302,963	310,293	8,752	379,510	388,262	2	98	100	...	Other Crops	
49,407	820,013	869,420	74,599	1,153,648	1,228,247	6	94	100	33	Total.	
809,194	2,645,456	3,454,650	770,455	2,983,957	3,754,412	21	79	100	100	Grand Total.	

Jámrao Canal.

Indus Left Bank Division.

Total for Sind.

TABLE IX.

Rainfall in the Province of Sind for the year 1914-1915.

Collectorates and Districts.		April 1914.	May.	June.	July.	August.	September.	October.	November.	December.	January 1915.	February.	March.	Total 1914-1915.	Total 1913-1914.		
Indus Right Bank Division.		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.		
UPPER SIND FRONTIER.	Begrri Canals District.	Kashmor ...	0 64	...	1 21	7 9	0 65	...	0 9	0 3	...	0 36	0 71	10 78	1 67		
		Kandkot ...	0 87	0 4	0 83	1 20	...	0 7	0 4	0 2	0 23	...	0 23	0 55	4 17	5 81	
		Jacobabad ...	0 14	...	1 55	2 73	0 15	...	0 68	0 45	0 7	...	0 7	0 32	6 16	4 93	
		Thul ...	0 16	0 2	0 57	3 36	0 11	0 56	0 11	...	0 4	0 37	5 0	5 70	
		Shahdadkot ...	0 33	...	1 5	4 12	...	0 8	0 23	0 30	0 3	0 9	...	0 16	1 60	7 99	6 37
Average		...	...	...	...	...	...	...	...	...	...	...	...	6 82	4 91
														Mean average of 10 years ...			
														3 64			
SUKKUR COLLECTORATE.	Shikarpur Canals District.	Ubauro ...	0 43	...	0 45	5 22	0 2	0 4	...	0 6	0 3	...	1 36	1 3	8 54	4 37	
		Mirpur Mathelo ...	0 39	0 15	1 9	2 88	...	0 25	...	0 1	...	0 1	...	0 67	1 87	7 61	5 12
		Ghokri ...	0 43	0 89	...	0 30	0 1	0 40	2 66	4 64	4 19
		Rohri ...	0 5	...	0 15	3 32	0 5	0 3	1 1	3 98	4 21
		Sukkur	0 19	2 36	0 35	0 7	0 1	0 1	0 99	3 87	3 23
		Shikarpur	0 20	0 93	2 35	0 13	0 3	0 16	0 63	4 38	7 54
Average		...	...	...	...	...	...	...	...	...	...	...	...	5 7	4 94
														Mean average of 10 years ...			
														8 39			
LARKANA COLLECTORATE.	Ghar Canals District.	Ratodero ...	0 23	...	0 21	1 20	...	0 7	0 27	0 24	0 9	1 54	3 94	5 38	
		Larkana ...	0 5	...	0 71	1 7	0 80	0 9	0 1	1 91	4 64	5 39	
		Kambar ...	0 5	...	1 1	2 24	0 73	0 22	0 8	1 43	5 78	5 25
		Bakrani	5 2
		Warrah	0 53	3 5	1 5	0 18	4	0 3	...	0 60	5 93	4 70
Average		...	...	...	...	...	...	...	...	...	...	...	...	4 5	5 15
														Mean average of 10 years ...			
														3 42			
WESTERN NARA COLLECTORATE.	Western Nara District.	Mehar ...	0 5	...	1 47	3 89	...	...	0 92	...	0 5	...	0 30	6 67	5 19
		Labdarra (Dokri)	1 20	0 54	...	0 1	0 77	0 5	0 1	0 3	...	1 10	3 71	...	
		Khairpur Nathanzahab ...	0 1	0 6	1 99	3 26	0 7	0 1	0 2	0 27	5 95	6 94	
		Dadu ...	0 14	0 6	0 49	7 1	0 1	0 20	7 87	10 26
		Johi ...	0 14	0 51	1 87	13 42	0 16	0 6	0 11	16 97	11 45
		Schwan	0 72	1 23	5 16	...	0 40	0 3	0 30	7 84	10 70
Average		...	...	...	...	...	...	...	...	...	...	...	...	6 72	11 38
														Mean average of 10 years ...			
														5 84			
KARACHI COLLECTORATE.	Karachi Canals District.	Bulakhan's Thana	0 5	1 67	2 82	0 5	0 13	4 72	29 66	
		Jerruck	1 39	0 89	...	0 6	0 48	0 27	3 0	21 36
		Taita	0 3	4 26	3 58	0 6	0 10	...	0 28	8 76	37 90	
		Sakro	2 3	1 94	...	1 27	0 12	4 80	22 69	
		Kotri Ghorabari	0 4	1 14	2 25	...	1 27	6 74	36 13	
		Mirpur Bathoro	0 2	3 6	1 39	0 2	1 5	0 12	6 47	36 11
		Jati	1 67	2 53	...	0 82	...	0 12	6 14	4 9	
		Sujawal	39 85
		Mochhalbin ...	0 7	...	2 36	2 68	0 5	2 14	0 34	7 62	42 45
Average		...	...	...	...	...	...	...	...	...	...	...	...	7 3	15 45
														Mean average of 10 years ...			
														7 86			
														15 47			
														5 72			
														31 29			
														10 51			
														5 68			
														11 53			
Average for Indus Right Bank Division		...	...	...	...	...	...	...	...	...	...	...	...	5 41	...
Indus Left Bank Division.																	
Mean average of 10 years for Indus Right Bank Division																	
5 41																	
THAR AND PARKAR COLLECTORATE.	Jamrao Canal District.	Jamrao Canal ...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mirpur Khās ...	0 1	1 23	2 4	0 60	...	0 4	0 61	4 52	20 13	
		Jamesabad ...	0 34	0 51	2 37	0 45	...	0 48	0 31	4 46	...	
		Digri ...	0 22	1 22	2 66	0 44	...	0 12	0 25	4 91	...	
		Average	3 47	12 82	
														Mean average of 10 years ...			
														8 28			
THAR AND PARKAR COLLECTORATE.	Eastern Nara District.	Diplo ...	0 25	1 32	8 40	...	2 36	...	...	...	...	0 13	0 8	12 58	...
		Mithi ...	0 13	2 78	3 46	...	3 47	...	0 36	9 77	41 9	
		Nagar Parkar ...	1 6	1 46	1 7	...	1 37	5 91	89 63	
		Chachro	0 31	3 5	...	3 2	...	1 24	0 7	7 97	28 82	
		Umarnot ...	1 0	0 73	3 5	...	0 65	0 2	0 12	6 11	26 67	
		Khilpo ...	0 5	1 54	1 8	...	0 53	0 2	0 4	4 31	17 53	
Average		...	...	...	...	...	...	...	...	...	...	...	...	3 70	10 86
														Mean average of 10 years ...			
														8 99			
														27 10			
														6 92			
														9 23			
NAWAR SHARHOL LECTORATE.	Nasrat Canals District.	Nawabshah	2 36	0 73	...	0 6	0 66	3 31	16 77	
		Kandiāro	2 32	2 34	...	0 7	0 10	0 55	5 43	4 35	
		Nanshabro ...	0 23	0 3	0 47	1 73	...	0 33	0 1	0 2	...	0 2	3 18	7 56	
		Tharushāh ...	0 8	0 3	0 28	1 68	...	0 14	0 12	0 6	2 96	6 39	
		Moro ...	0 18	0 6	0 56	10 70	...	0 38	12 16	7 88	
Average		...	...	...	...	...	...	...	...	...	...	...	...	5 51	8 59
														Mean average of 10 years ...			
														4 84			
HYDRABAD COLLECTORATE.	Hyderabad Canals District.	Sinjhero	1 77	1 81	0 21	3 59	11 3	
		Sakrand ...	0 1	0 3	0 71	0 74	...	0 24	2 51	17 38	
		Shahdadpur	1 12	1 12	0 73	13 50	
		Hala	0 5	1 1	4 4	0 22	5 87	16 55
		Tando Adam	0 88	0 39	...	0 3	0 48	1 73	17 56
Average		...	...	...	...	...	...	...	...	...	...	...	...	3 29	21 89
														Mean average of 10 years ...			
														8 25			
														17 24			
														7 29			
HYDRABAD COLLECTORATE.	Fuleli Canals District.	Hyderabad ...	0 2	1 8	1 66	...	0 7	0 15	...	...	...	0 2	0 15	3 16	20 81
		Dero Mohbat	1 84	0 97	...	1 0	0 15	4 11	21 89	
		Tando Bāgo	0 44	4 39	...	0 45	...	0 65	0 4	6 29	25 50	
		Badin	1 27	3 48	...	2 43	...	0 96	8 63	38 51	
		Tando Mahomed Khazn (Guni)	2 84	2 4	...	0 56	0 30	6 5	18 36
Average		...	...	...	...	...	...	...	...	...	...	...	...	5 66	25 1
														Mean average of 10 years ...			
														10 31			
														4 86			
														18 15			
Average for Indus Left Bank Division		...	...	...	...	...	...	...	...	...	...	...	...	7 76	...

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

	To end of 1913-1914.	During 1914-1915.	To end of 1914-1915.	Remarks.
MAJOR WORKS.				
<i>Productive Works.</i>				
Desert Canal	15,96,668	97,550	16,94,218	
Unharwáh	15,247	977	16,224	
Begári Canal	18,87,069	70,449	19,57,518	
Mahiwáh	70,689	6,774	77,463	
Eastern Nára Works	5,15,547	22,597	5,38,144	
Jámráo Canal	1,53,899	10,454	1,64,353	
Dád Canal	2,65,475	23,525	2,89,000	
Nasrat Canal	19,897	2,131	22,028	
Total ...	45,24,491	2,34,457	47,58,948	
MINOR WORKS AND NAVIGATION.				
<i>Works for which Capital and Revenue Accounts are kept.</i>				
Sukkur Canal	2,14,852	9,462	2,23,814	
Ghár Canal	10,81,141	73,233	11,51,374	
Sattah Canal	2,790	111	2,901	
Alibhar Kacheri Canal	1,01,928	3,734	1,05,662	
Márák Great Canal	5,77,653	25,671	6,03,324	
Sarfrazwáh	3,19,566	8,966	3,28,532	
Fuleli Canal	48,91,671	1,96,961	50,88,632	
Hassanali Canal	14,066	2,685	16,751	
Total ...	72,03,167	3,20,823	75,23,990	
<i>Works for which only Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	75,154	...	
Western Nára District ... ..	...	58,496	...	
Karáchi Canals District ... ..	...	12,256	...	
Nasrat Canals District ... ..	...	8,319	...	
Hyderabad Canals District ... ..	...	67,194	...	
Fuleli Canals District ... ..	...	6,699	...	
Total ...	...	2,28,118	...	
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>				
Shikárpur Canals District ... ..	...	16,752	...	
Ghár Canals District ... ..	...	1,017	...	
Karáchi Canals District ... ..	...	1,088	...	
Total ...	...	18,857	...	

H. S. KATRAK,
Chief Superintendent.

Statement showing Actual Receipts during 1914-15 on account of Irrigation Share of Land Revenue from Canals in Sind.

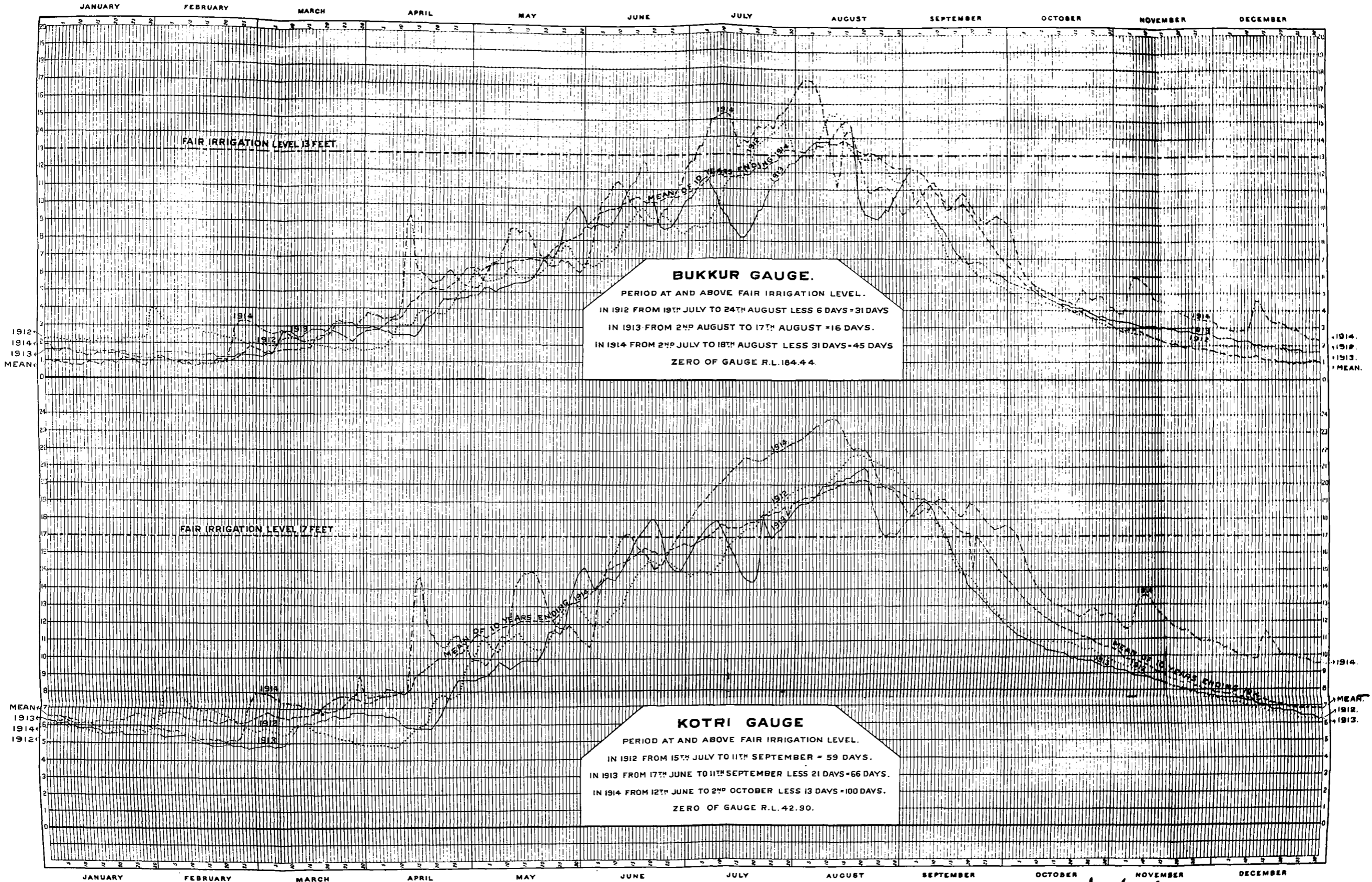
MAJOR WORKS:				Gross Irrigation Share of Land Revenue.	Deduct %th of Cash Refunds of Land Revenue in the Civil Department.	Net Irrigation of Land Revenue.
<i>Productive Works.</i>				Rs.	Ks.	Rs.
Desert Canal	...	...	...	2,98,130	...	2,98,130
Unharwáh	...	...	...	1,02,464	...	1,02,464
Begári Canal	...	...	...	5,80,270	...	5,80,270
Mahiwáh	...	...	...	1,74,471	...	1,74,471
Eastern Nára Works—						
Mithrao Canal	...	...	...	3,62,229	...	3,62,229
Thar Canal	...	...	...	1,61,128	...	1,61,128
Nára do.	...	...	...	59,279	...	59,279
Khipra Canal	...	...	...	5,532	...	5,532
Hiral Canal	...	...	...	41,026	...	41,026
Hiran do.	...	...	...	...	...	...
Nára Supply Channel	...	...	...	23,233	...	23,233
				6,53,427	...	6,53,427
Jámráo Canal	...	...	...	5,67,051	...	5,67,051
Dád Canal	...	...	...	2,38,022	...	2,38,022
Nasrat Canal	...	...	...	2,19,896	...	2,19,896
Total, Major Works				28,93,731	...	28,93,731
MINOR WORKS AND NAVIGATION.						
<i>Works for which Capital and Revenue Accounts are kept.</i>						
Sukkur Canal	...	...	...	2,80,688	...	2,80,688
Ghár Canal	...	...	...	9,92,549	...	9,92,549
Sattah Canal	...	...	...	26,826	...	26,826
Alibhar Kacheri Canal	...	...	...	40,065	...	40,065
Márák Great Canal	...	...	...	1,82,131	...	1,82,139
Sarfrazwáh	...	...	...	56,750	...	56,750
Fuleli Canal	...	...	...	8,72,815	...	8,72,815
Hassanali Canal	...	...	...	47,461	...	47,461
Total				24,99,293	...	24,99,293
<i>Works for which only Revenue Accounts are kept.</i>						
Shikárpur Canals District	...	...	...	5,59,794	...	5,59,794
Western Nára District	...	...	...	10,92,063	...	10,92,063
Karáchi Canal District	...	...	...	3,66,080	58	3,66,022
Nasrat Canals District	...	...	...	2,35,457	...	2,35,457
Hyderabad Canals District	...	...	...	3,23,483	...	3,23,483
Fuleli Canals District	...	...	...	67,585	...	67,585
Total				26,44,462	58	26,44,404
<i>Works for which neither Capital nor Revenue Accounts are kept.</i>						
Begári Canals District—						
Kashmore Bund	...	...	...	12,491	...	12,491
Shikárpur Canals District—						
Sukkur Begári Bund	...	...	...	25,129	...	25,129
Kasimpur Bund	...	...	...	7,259	...	7,259
Bunds in Rohri District	...	...	...	392	...	392
Ghár Canals District—						
Ghár Bunds	...	...	...	4,595	...	4,595
Western Nára District—						
Nára Bunds	...	...	...	15,347	...	15,347
Karáchi Canals District—						
Bunds Right and Left Banks	...	...	...	11,984	...	11,984
Total				77,197	...	77,197
Total, Minor Works				52,20,952	58	52,20,894
GRAND TOTAL				81,14,683	58	81,14,625

Statement of Highest Readings on Bukkur and Kotri gauges from 1880 to 1914.

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	
1914	3rd August	17.4	11th August	23.8	

R. T. HARRISON,
Superintending Engineer, Indus Left Bank Division.

HYDROGRAPH OF THE RIVER INDUS AT BUKKUR AND KOTRI



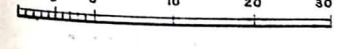

 CHIEF ENGINEER,
 INDUS RIVER COMMISSION.

INDEX MAP

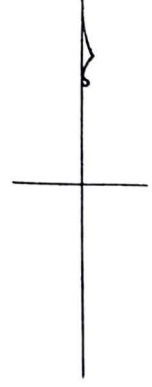
OF
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to accompany the Irrigation Revenue Report
1914-15.

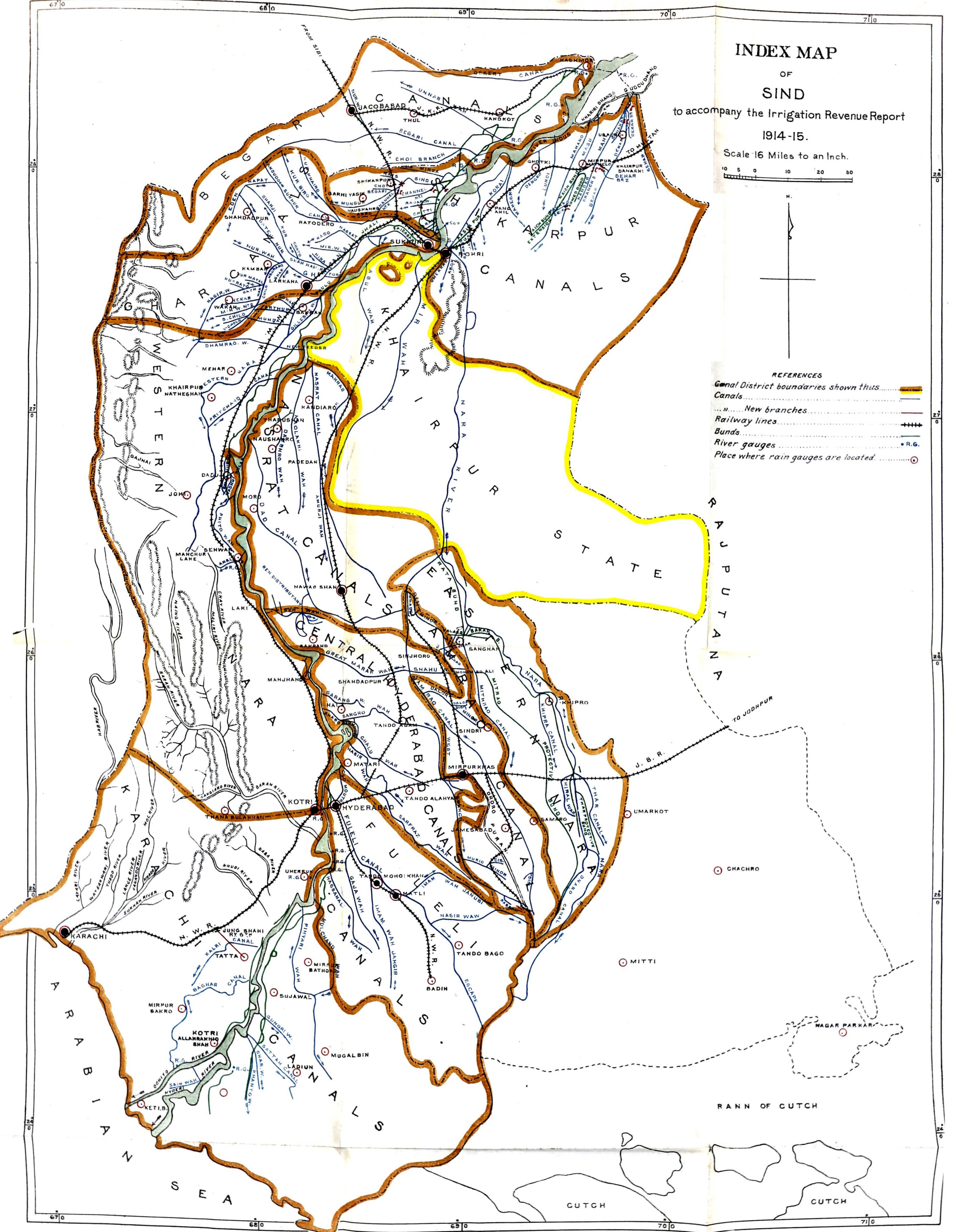
Scale 16 Miles to an Inch.



N.



- REFERENCES
- Canal District boundaries shown thus.....
 - Canals.....
 - New branches.....
 - Railway lines.....
 - Bunds.....
 - River gauges..... R.G.
 - Place where rain gauges are located.....



R. S. Howard
SUPERINTENDING ENGINEER,
INDUS LEFT BANK DIVISION.
27. 8. 15.