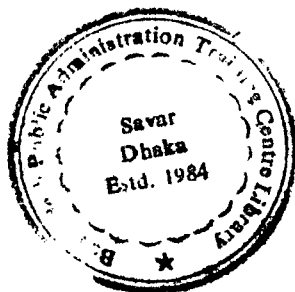


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ADMINISTRATION REPORT
OF THE
IRRIGATION AND CIVIL WORKS.
PART I.

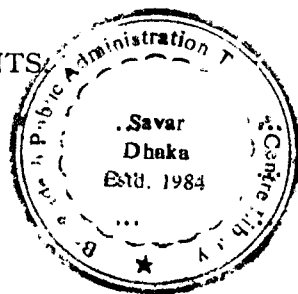
For the year 1935-36..

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DIAGRAM

SHOWING

PUBLIC WORKS EXPENDITURE

LAKHS
228

IRRIGATION WORKS

78

28

78

ESTABLISHMENT IRRIGATION

38

28

CIVIL WORKS PROVINCIAL

2

8

CONTRIBUTION WORKS
CENTRAL CIVIL WORKS

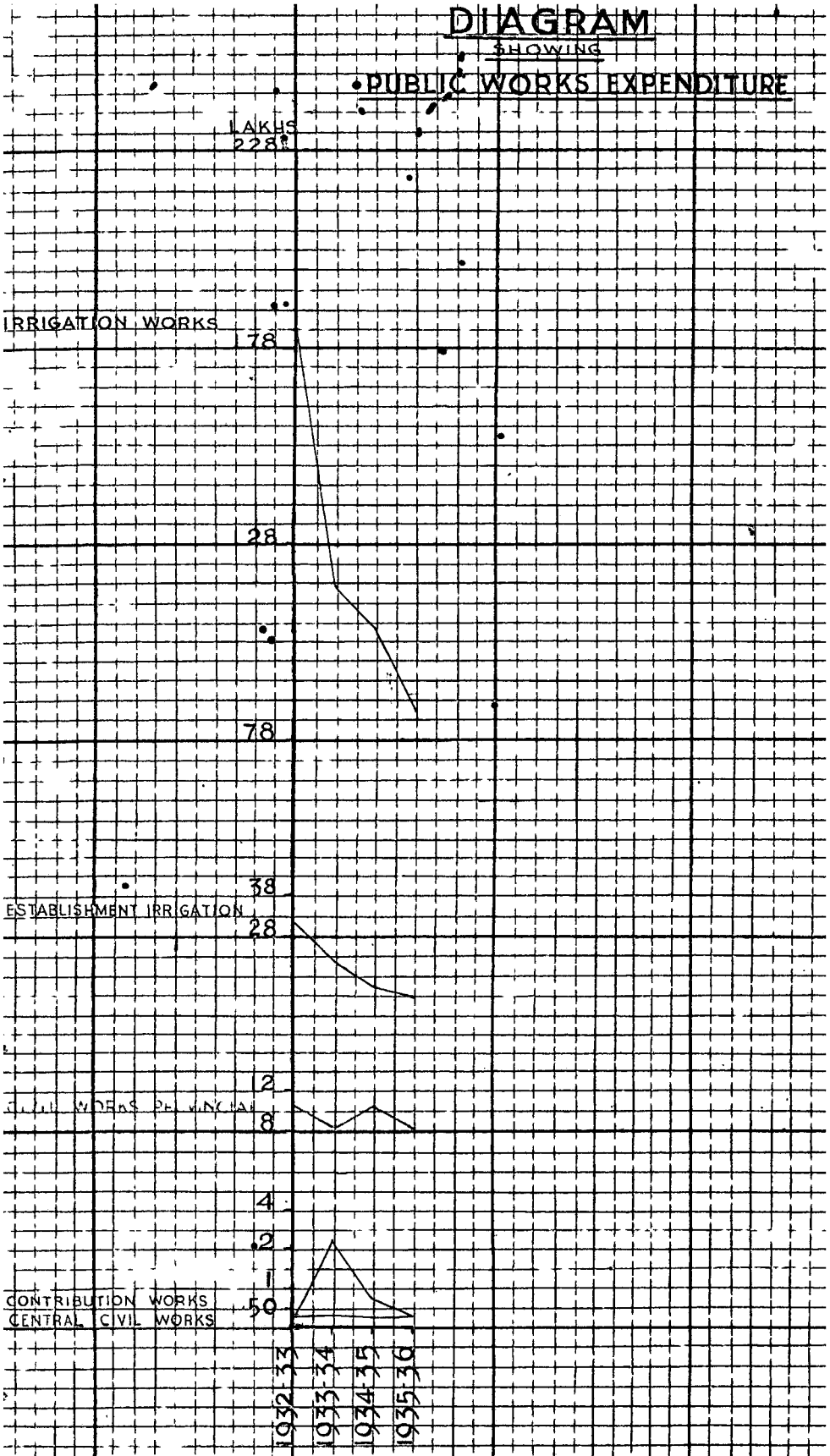
4

2

1

50

1932-33
1933-34
1934-35
1935-36



DIAGRAM

SHOWING

PUBLIC WORKS EXPENDITURE

EXPENDITURE ON THE DIFFERENT HEADS OF ACCOUNT IS REPRESENTED ON THE DIAGRAM BY THE BREADTHS OF THE SPACES BETWEEN ADJACENT LINES.

AKHS
348

248

48

48

16

8

4

2

50

IRRIGATION
WORKS

ESTABLISHMENT
IRRIGATION

CIVIL WORKS
PROVINCIAL

CONTRIBUTION
FROM GOVERNMENT WORKS

1932-33

1933-34

1934-35

1935-36

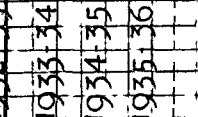
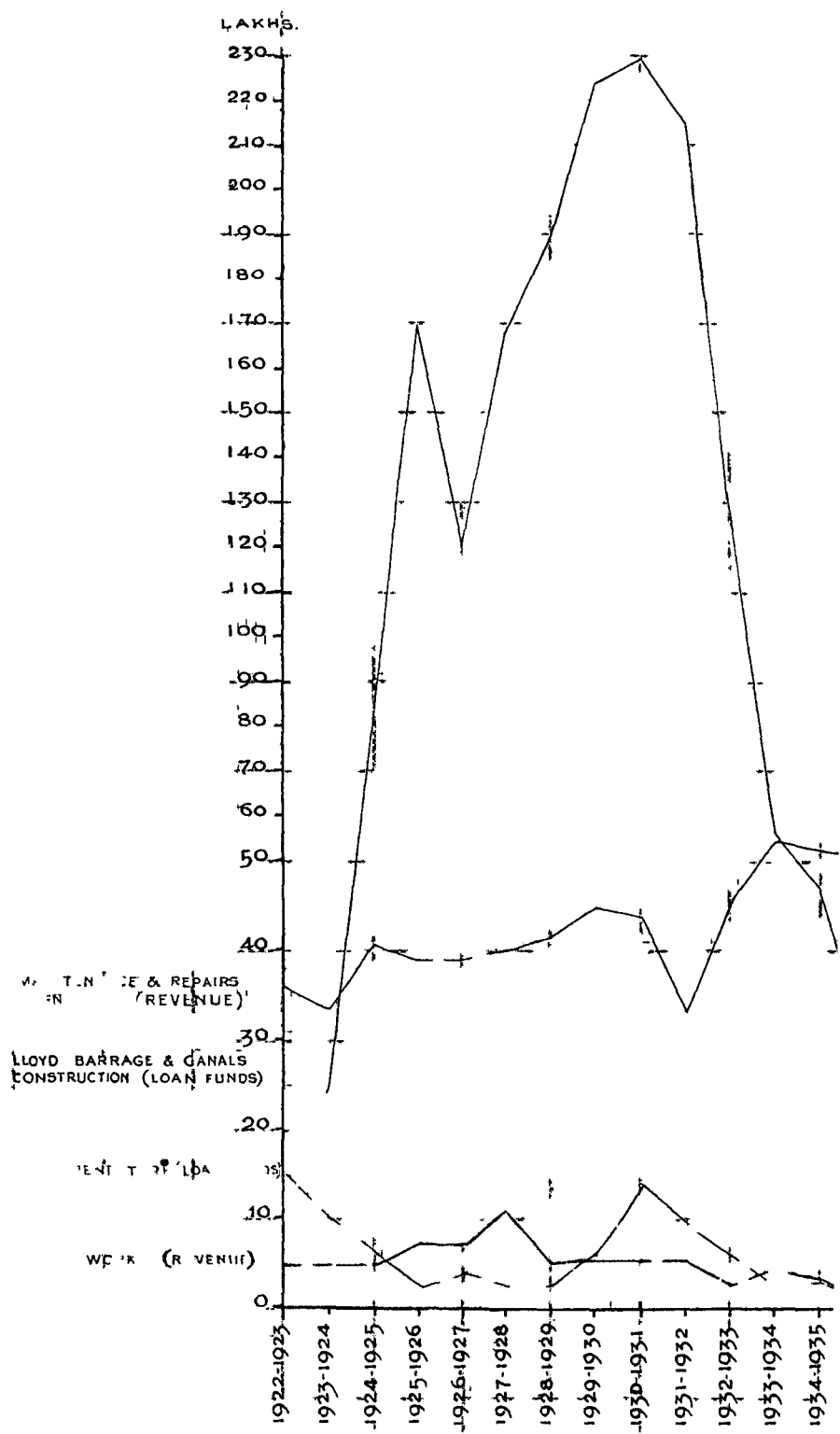


DIAGRAM
 SHOWING
EXPENDITURE ON IRRIGATION WORKS
 IN THE R.W.D. — SIND PROVINCE —
 FROM
 LOAN FUNDS, REVENUE, & CONTRIBUTION



EXPENDITURE ON PROVINCIAL BUILDINGS AND ROADS.

MAINTENANCE.



DIAGRAM SHOWING EXPENDITURE ON D. L. B. ROADS. (ORIGINAL WORKS & REPAIRS.)

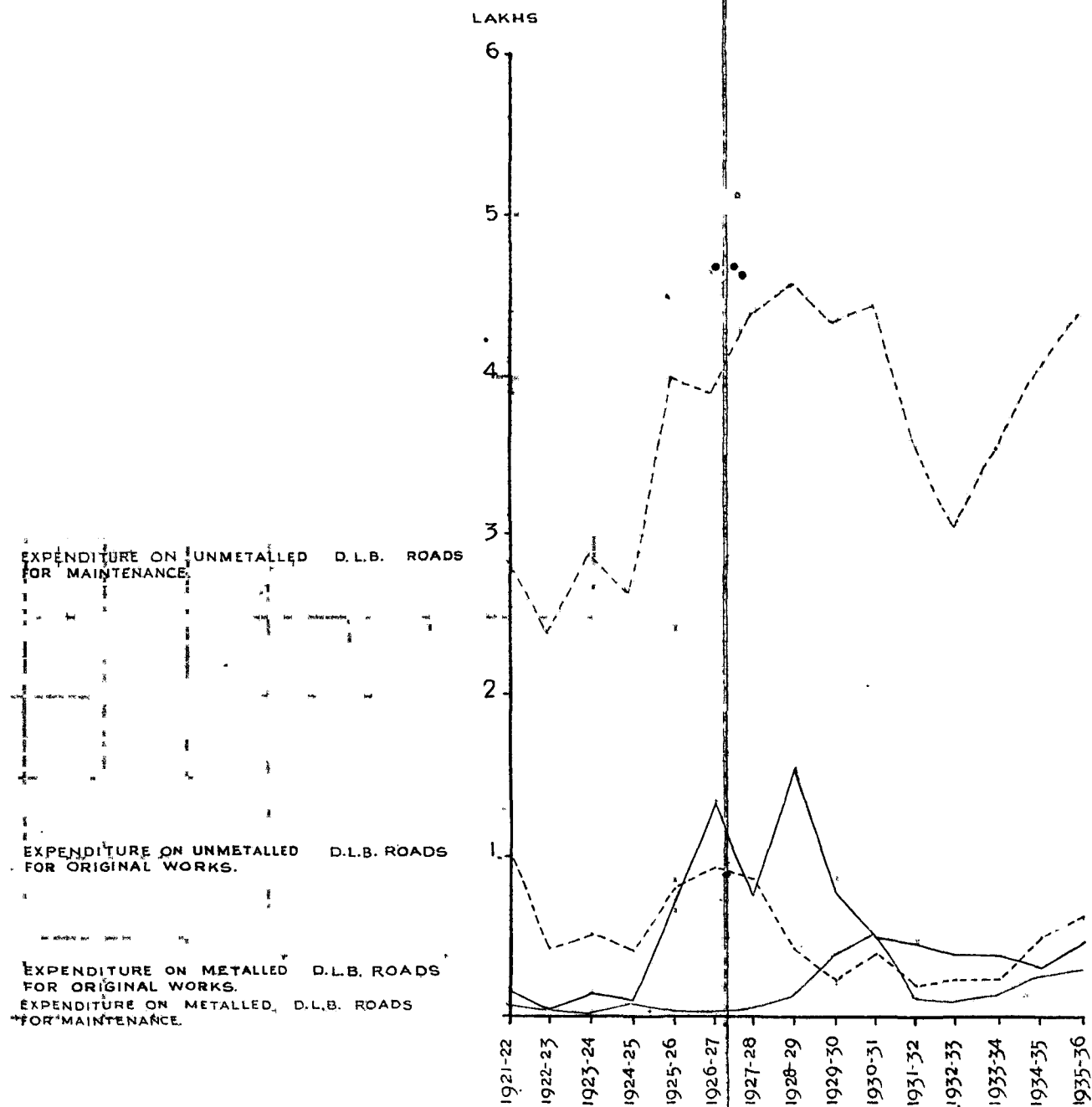
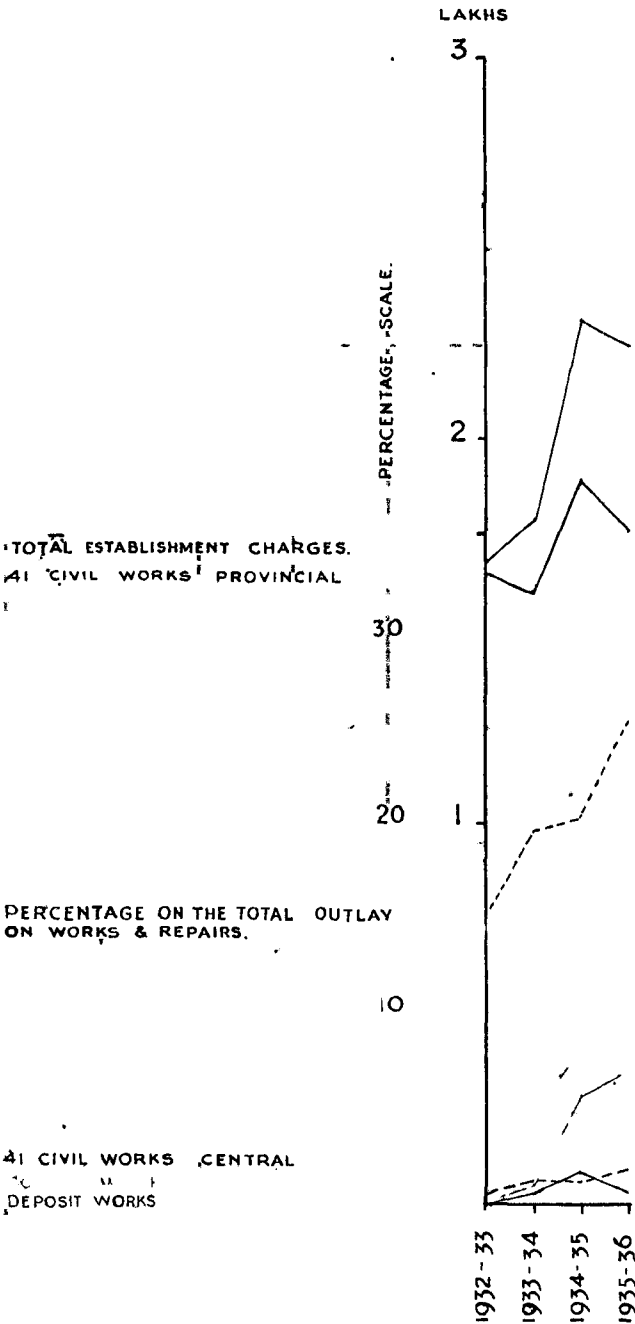
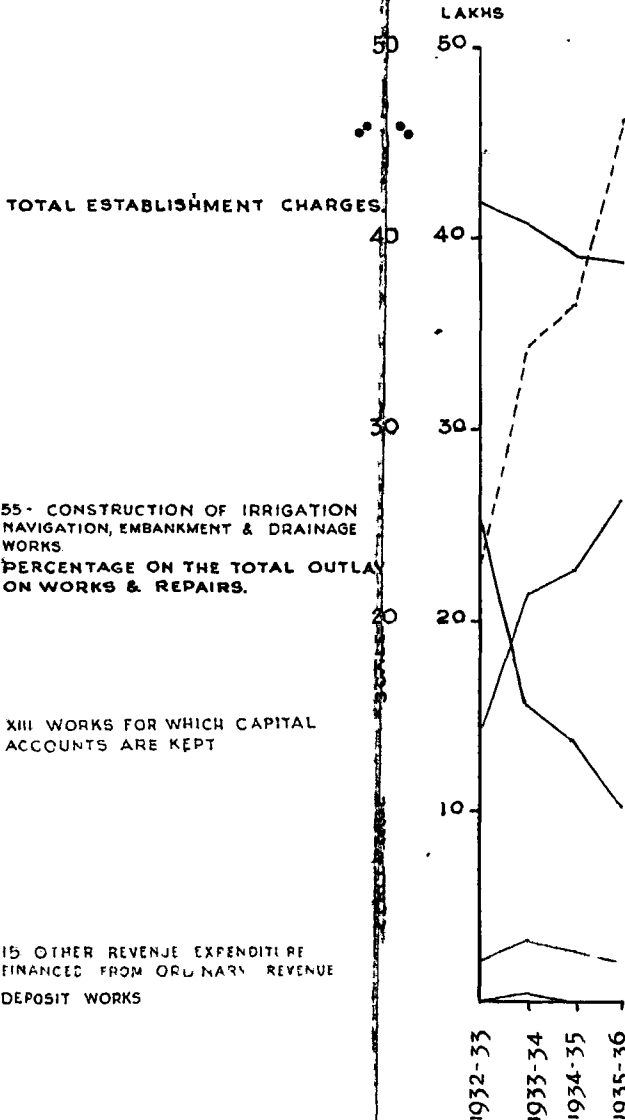


DIAGRAM
SHOWING
EXPENDITURE ON ESTABLISHMENT
AND
PERCENTAGES TO THE TOTAL OUTLAY ON WORKS & REPAIRS
IN THE
ROADS & BUILDINGS & IRRIGATION BRANCHES
OF THE
PUBLIC WORKS DEPARTMENT.

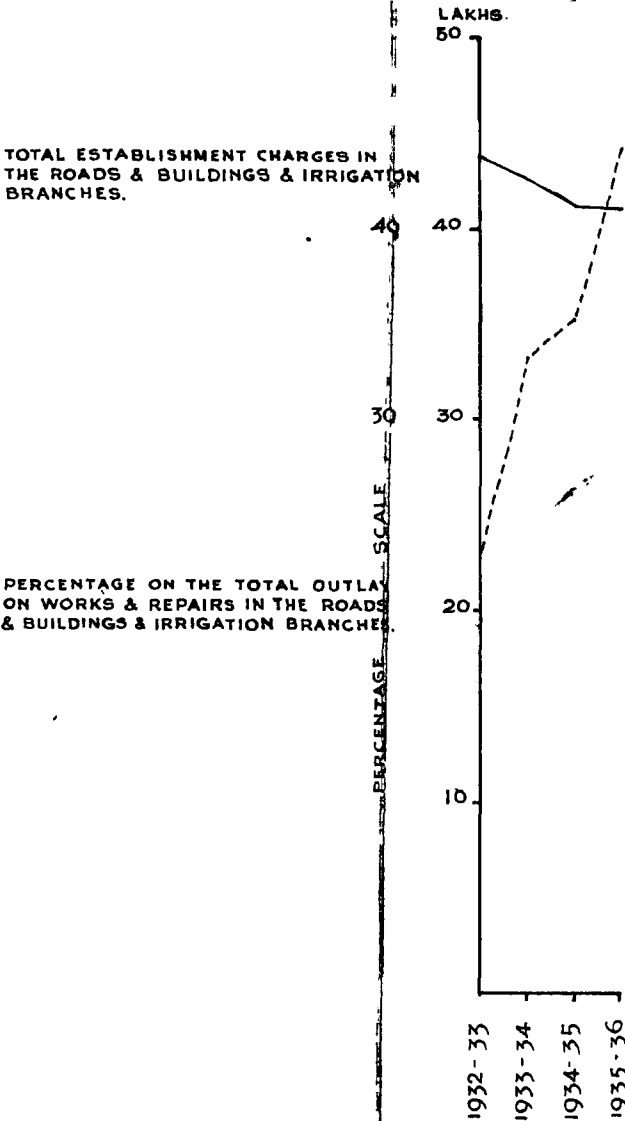
EXPENDITURE ON ESTABLISHMENT IN THE ROADS & BUILDINGS BRANCH.



EXPENDITURE ON ESTABLISHMENT IN THE IRRIGATION BRANCH



TOTAL ESTABLISHMENT CHARGES & PERCENTAGES ON OUTLAY IN THE ROADS & BUILDINGS & IRRIGATION BRANCHES



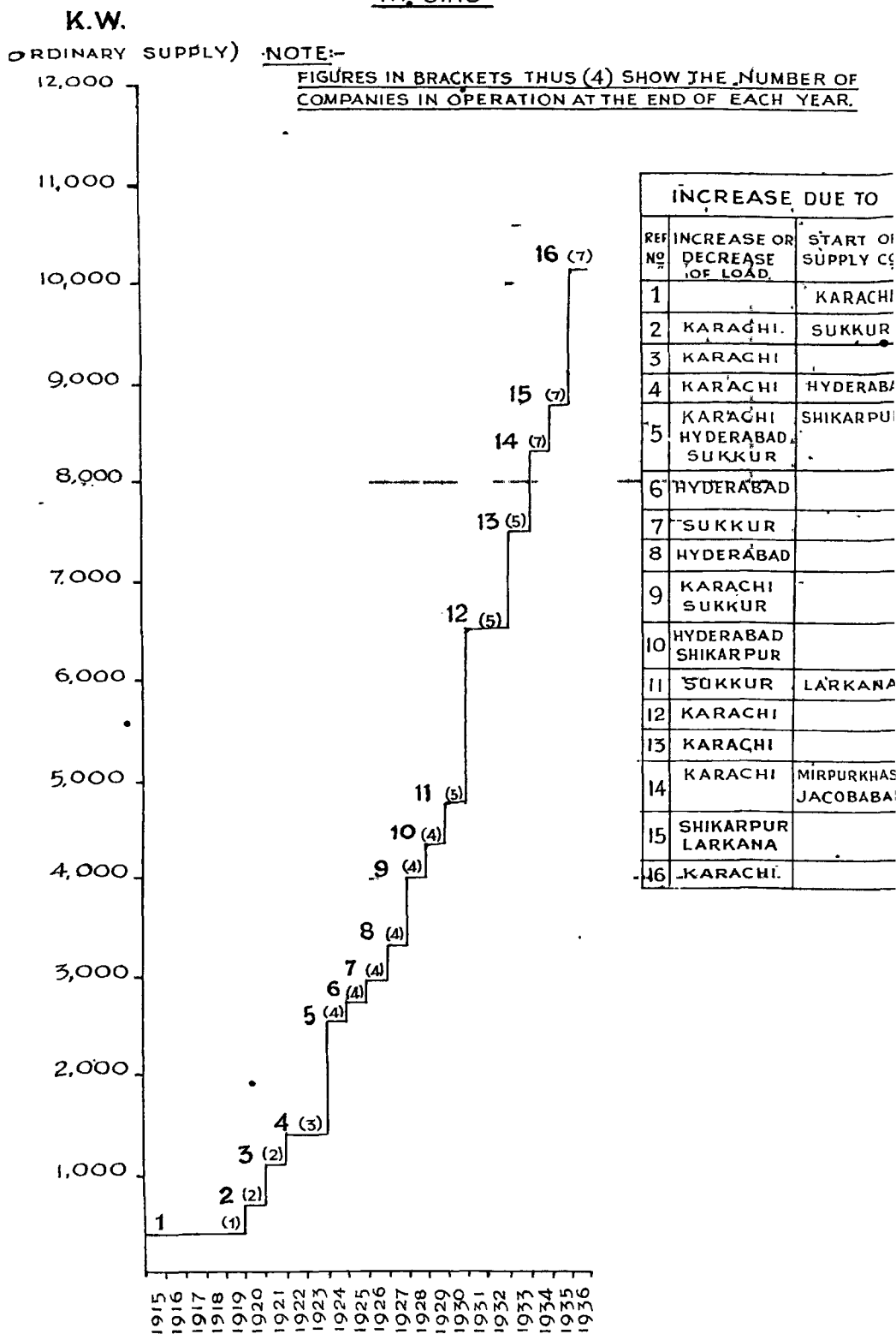
- SHOWING -

- THE PROGRESS OF ELECTRICAL DEVELOPMENT -

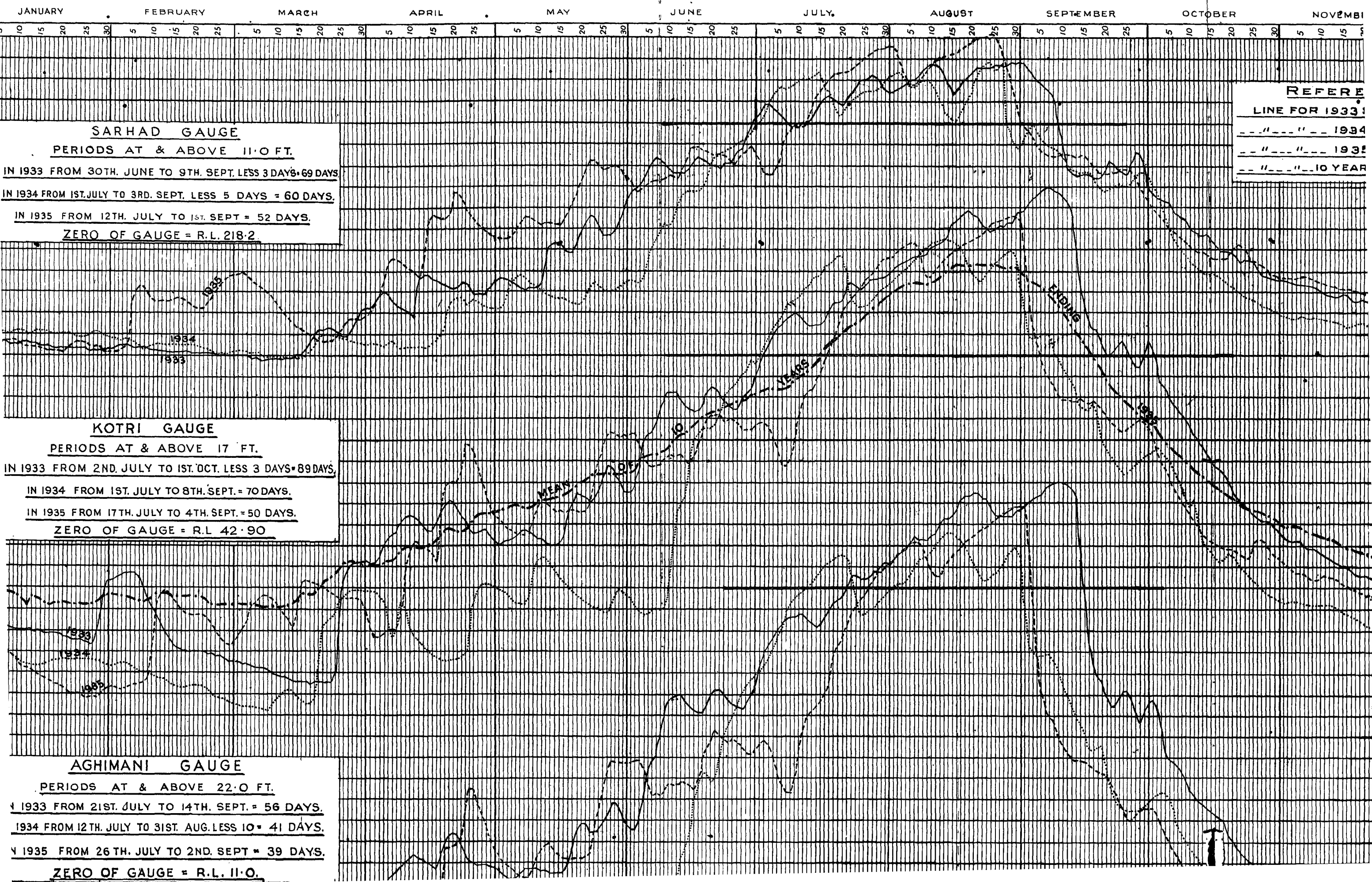
- IN TERMS OF KILOWATTS INSTALLED FROM 1915 -

- TO DATE BY VARIOUS SUPPLY COMPANIES -

- IN SIND -



HYDROGRAPHS OF THE RIVER INDUS AT SARHAD KOTRI AND AGHIMANI



PUBLIC WORKS DEPARTMENT, SIND.
ADMINISTRATION REPORT OF THE IRRIGATION
AND CIVIL WORKS FOR THE YEAR 1935-36.

I.—DIRECTION.

During the year under report, Sind continued to be a part of the Bombay Presidency and therefore the direction was under the control of the Secretary to Government, Public Works Department, Bombay. Mr. W. L. C. Trench, C.I.E., I.S.E., held the charge of the office of the Chief Engineer in Sind.

II.—ADMINISTRATIVE MEASURES.

The Secretary of State accorded sanction to the creation of the temporary post of Special Road Engineer of the rank of a Superintending Engineer for a period of 2 years in the first instance for road development in Sind and Mr. H. B. Parikh, I.S.E., was appointed to officiate in this post with effect from the 16th December 1935.

During the year under report, there were 6 Superintending Engineers of Circles (including Special Road Engineer in Sind) and the following officers of the I.S.E., were in charge of these Circles:—

Name of Superintending Engineer.	Name of Circle.
Mr. D. R. Sawhney, I.S.E. ...	Eastern Sind Circle.
(i) Mr. A. Gordon, I.S.E., from 1st April 1935 to 24th October 1935.	Northern Sind Circle.
(ii) Mr. W. Kirkpatrick, I.S.E., for 25th October 1935 (in addition to his own charge, <i>viz.</i> , Western Sind Circle).	
(iii) Mr. C. G. Hawes, I.S.E., from 26th October 1935 to 31st March 1936.	
Mr. W. Kirkpatrick, I.S.E. ...	Western Sind Circle.
(i) Mr. T. A. Andrew, I.S.E., from 1st April 1935 to 30th April 1935.	Rohri Canal Circle.
(ii) Mr. S. A. Maybury Lewis, I.S.E., from 1st May 1935 to 31st March 1936.	

Name of Superintending Engineer.	Name of Circle.
(i) Mr. E. P. Watson, I.S.E., from 1st April 1935 to 5th August 1935.	Southern Sind Circle.
(ii) Mr. A. Gordon, I.S.E., from 6th August 1935 to 16th August 1935 ((in addition to his own charge).	
(iii) Mr. T. S. Mirchandani, I.S.E., from 17th August 1935 to 31st March 1936.]	
Mr. H. B. Parikh, I.S.E., from 16th December 1935 to 31st March 1936.	Special Road Engineer in Sind.

Mr. E. P. Watson, I.S.E., was confirmed as Superintending Engineer (permanent), with effect from the 8th February 1936, *vice* Mr. T. A. Andrew, I.S.E., confirmed as Chief Engineer.

III.—TERRITORIAL CHANGES.

DIVISIONAL CHARGES.

The continuance of the following temporary Divisions was sanctioned upto the dates mentioned below :—

Left Bank Drainage Division	...	29th February 1936.
Right Bank Drainage Division	...	29th February 1936.
Manchar Drainage Division	...	30th September 1936.

The Divisional and the Sub-Divisional boundaries of the Mithrao and the Khipro Divisions were re-adjusted and the newly formed Divisions were constituted as shown below. The Khipro Division was re-named as Thar Division :—

Name of Division.	Name of Sub-division.
Thar Division ...	... Samaro. Nabisar. Naokot. Farash.
Mithrao Division ...	... Bakhoro. Sindhri. Khipro. Samarjo.

SUB-DIVISIONAL CHARGES.

Pad-Idan Sub-Division of the Nasrat Division was closed with effect from the 11th December 1935, and the area comprising that Sub-Division was amalgamated partly with the 'Daur' Sub-Division of the same Division and partly with 'Mehrabpur' Sub-Division of the Rohri Division. The reconstituted 'Mehrabpur' Sub-Division of the Rohri Division was re-named as 'Pad-Idan' Sub-Division.

'Naulakhi' and 'Sehra' Sub-Divisions of the Rohri Division were re-named as 'Halani' and 'Tharushah' Sub-Divisions, respectively.

'Construction' Sub-Division of the Fuleli Canals Division was closed with effect from 1st November 1935.

With the closure of the 'Mahiota' Sub-Division of the Rice Canals Division with effect from 1st November 1935, the remaining four Sub-Divisions of that Division were re-arranged and named as under:—

Ghar Sub-Division.
Kambar Sub-Division.
Nasirabad Sub-Division.
Mehar Sub-Division.

'Mushaik Hote' Sub-Division of the Hala Division was closed with effect from the 29th February 1936 afternoon and its area was merged in the adjoining Sub-Divisions of that Division.

Owing to the closure of the Plant Division on the afternoon of 31st March 1935, the 'Plant' Sub-Division of that Division was transferred to the Mechanical Division.

A total of 97 Sub-Divisions existed on 31st March 1936.

IV.—IRRIGATION WORKS.

(i) DESCRIPTION OF IRRIGATION.

1. The Province of Sind is situated beyond the influence of the south-west and the north-east monsoons, and in consequence its rainfall is normally scanty and unreliable. Unlike the greater part of India, therefore, the area of cultivation in Sind that depends solely or mainly upon rainfall is insignificant. The River Indus, however, brings down abundant supplies of water, the minimum discharge at Sukkur during the last 10 years being 16,800 cusecs, while the average has been as high as 1,45,000 cusecs. From where it enters the Province of Sind, the river is generally in deltaic formation, flowing along an elevated ridge formed by its own alluvial deposits. The indigenous system of irrigation by inundation canals took advantage of this physical peculiarity. The device was primitive; a channel was cut from the river approximately at right angles to its course; after a short distance the canal deviated to an

alignment parallel to the river and commanded the low-lying lands falling away from the marginal ridge. These old irrigation works have been improved and extended while scientific methods have been introduced into the design and control of these canals, and they have been provided with head regulators. There are, however, inherent defects in this method of irrigation. The cultivation dependent on river inundation is principally kharif, and even this is subject to uncertainty of supply owing to fluctuations in the river levels. The low water supplies available during the Winter season can be tapped only to a small extent and therefore this water largely runs to waste in the sea. As a result of the vagaries of a constantly changing river, the inundation canals frequently suffer from deficiency of supply during critical irrigation periods. The above inherent defects in irrigation have been remedied in Central Sind with effect from the year 1932 by the construction of the Lloyd Barrage at Sukkur and the opening of the perennial canals taking off above it. It is only in parts of Upper and Lower Sind, which are outside the sphere of influence of the Barrage, that only a 'kharif' water-supply continues to be available from the inundation canals. 'Bosi-Rabi' crops (Rabi crops grown on waterings given prior to sowing and before the inundation canals cease to flow), however, are grown to a considerable extent in these areas, especially if the 'abkalani' happens to be a long and high one.

(ii) NATURE OF INUNDATION AND RAINFALL.

2. The inundation of 1935 was a poor one and unfavourable for irrigation. The river rose steadily in June and with a few fluctuations maintained its level till the end of August after which its abrupt and rapid fall adversely affected the inundation canals.

Attock rose during the year to 42·5 feet on the 12th August 1935. Sarhad gauge is now the reference gauge for inundation canals in Upper Sind. Details of the main canals in relation to this gauge are as follows :—

Canal.			Full supply gauge read- ing.	Corres- ponding Sarhad gauge read- ing.	No. of days obtainable during 19·5-36.	No. of days obtainable during 1934-35.
Desert	...	...	7·0	10·8	56	46
Unherwah	...	...	9·5	9·6	72	81
Begari	...	...	11·5	10·9	53	71
Sind Canal	...	...	13·0	10·9	53	81
Mahiwah	...	...	9·0	12·2	46	48

The maximum gauge reading obtained at Sarhad was 15·2 feet 24th August 1935. A gauge reading of 11·0 feet was first obtained on the 12th July 1935.

3. The maximum level obtained at the Barrage with all gates open was R. L. 195·90 as compared with R. L. 195·75 last year. The maximum discharge in the river at Sukkur was 672,900 cusecs which occurred on the 23rd August 1935, and the minimum 200 cusecs which was obtained on the 1st March 1936 when all gates were completely closed and 23 gates were caulked.

4. The supplies in the river at Kotri were unsatisfactory. The data for the main inundation canals in Lower Sind in relation to this gauge are as follows:—

Canal.	Full supply gauge reading.	Corresponding Kotri gauge reading.	No. of days obtainable during 1935-36.	No. of days obtainable during 1934-35.
Fuleli	18·0	18·3	47	56
Hassanaliwah	11·0	17·4	50	73
Pinyari	12·7	18·1	47	70
Gungri	11·5	20·7	38	2
Sattah	9·5	21·1	33	28
Kalri	13·0	21·8	25	34
Baghar	14·5	22·5	12	4

In the case of Baghar Canal, owing to the absence of cross regulators, the full supply level gives a much bigger discharge than required for the area commanded.

The highest gauge reading recorded at Kotri was 23·6 feet as against a maximum of 22·6 feet in the previous year. A gauge reading of 18 feet was first recorded on the 19th July and 21·5 feet on the 30th July 1935.

5. The rainfall though normal, was untimely in Lower Sind and it greatly interfered with transplantation of rice seedlings.

(iii) GENERAL REVIEW OF THE RESULTS OF THE YEAR.

Area of cultivation, Government, Jagir and Foreign exclusive of Dubari.

6 The gross assessed areas in Sind for the year are given in the sub-joined Statement A:—

Statement A.

Year and Class of crops.	55—Construction of Irrigation, Navigation, Embankment and Drainage Works not charged to Revenue. A—Irrigation Works.			15—Other Revenue expenditure financed from ordinary Revenue, Works for which neither Capital nor Revenue Accounts are kept.	GRAND TOTAL.
	Productive.	Unproductive.	TOTAL.		
	2	3	4	5	6
1	2	3	4	5	6
	Acres.	Acres.	Acres.	Acres.	Acres.
Average for 3 years ending 1934-35. { Kharif ...	2,371,029	79,109	2,450,138	17,919	2,468,057
{ Rabi ...	1,162,815	19,981	1,182,796	13,411	1,196,207
Total ...	3,533,844	99,090	3,632,934	31,330	3,664,264
1934-35 ... { Kharif ...	2,367,052	73,521	2,440,573	15,673	2,456,246
{ Rabi ...	1,161,987	9,611	1,171,598	10,091	1,181,689
Total ...	3,529,039	83,132	3,612,171	25,764	3,637,935
1935-36 ... { Kharif ...	2,551,995	73,594	2,625,589	13,556	2,639,145
{ Rabi ...	1,214,449	12,734	1,227,183	7,977	1,235,160
Total ...	3,766,444	86,328	3,852,772	21,533	3,874,305
Increase or decrease as compared with the average. { Kharif ...	180,966	— 5,515	175,451	— 4,363	171,088
{ Rabi ...	51,634	— 7,247	44,387	— 5,434	38,953
Total ...	232,600	— 12,762	219,838	— 9,797	210,041
Increase or decrease as compared with the year 1934-35 { Kharif ...	184,948	73	185,016	— 2,117	182,899
{ Rabi ...	52,462	3,123	55,585	— 2,114	53,471
Total ...	237,405	3,196	240,601	— 4,231	236,370

The total cultivation of the year shows an increase of 236,370 acres as compared with the area of the last year and an increase of 210,041 acres as compared with the average of the previous 3 years. The area under kharif shows an increase of 182,899 acres as compared with the area of the last year and an increase of 171,088 acres as compared with the average of the previous triennium. The area under rabi shows an increase of 53,471 acres as compared with the area of the last year and an increase of 38,953 acres as compared with the average of the previous 3 years.

The area cultivated under 'Dubari' (twice cropped land), which is not included in Statement A, was 441,813 acres. The 'Dubari' figures for the previous year and the average of the previous 3 years were 402,658 and 433,796 acres, respectively.

7. The net consolidated assessment including 'Hakabo' on Foreign and Jagir lands after deducting remissions is given in the following Statement B:—

Statement B.

Year and class of crops.	55.—Construction of Irrigation, Navigation, Embankment and Drainage works not charged to Revenue. A.—Irrigation.			15—Other Revenue expenditure financed from ordinary Revenues, Works for which neither Capital nor Revenue Accounts are kept.	GRAND TOTAL.
	Productive.	Unproductive.	Total.		
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Average of past 3 years including 1934-35. ...	Kharif ... 84,44,730	1,76,088	86,20,818	31,833	86,52,651
	Rabi ... 40,70,891	56,246	41,27,137	27,489	41,54,626
	Total ... 1,25,15,621	2,32,334	1,27,47,955	59,322	1,28,07,277
1934-35 ...	Kharif ... 84,78,830	1,43,854	86,22,684	26,067	86,48,751
	Rabi ... 41,91,032	24,160	42,15,192	20,851	42,36,043
	Total ... 1,26,69,862	1,68,014	1,28,37,876	46,918	1,28,84,794
1935-36 ...	Kharif ... 98,79,786	1,64,103	1,00,43,889	26,185	1,00,70,074
	Rabi ... 42,05,717	25,100	42,30,817	10,172	42,40,989
	Total ... 1,40,85,503	1,89,203	1,42,74,706	36,357	1,43,11,063
Increase or decrease as compared with the average ...	Kharif ... 14,35,056	—11,985	14,23,071	—5,648	14,17,423
	Rabi ... 1,81,826	—31,146	1,03,680	—17,317	86,363
	Total ... 15,09,882	—43,131	15,26,751	—22,965	15,03,786
Increase or decrease as compared with the year 1934-35 ...	Kharif ... 14,00,956	20,249	14,21,205	118	14,21,323
	Rabi ... 14,685	940	15,625	—10,879	4,946
	Total ... 14,15,641	21,189	14,36,830	—10,661	14,26,269

The net assessed revenue shows an increase of Rs. 14,26,269 as compared with the revenue of the last year and an increase of Rs. 15,03,786 as compared with the average of the previous three years.

8. The area cultivated on spill water amounted to 20,247 acres, compared with the area of 15,506 acres cultivated during the last year and 36,274 acres, the average of the previous triennium.

9. The average net consolidated assessment per acre on Government land, compared with that of the previous year and the average of the previous 3 years is shown below:—

	Average of previous 3 years.	1934-35.	1935-36.
55.—Construction of Irrigation, Navigation, Embankment and Drainage Works not charged to Revenue—			
(1) Productive	3.74	3.76	4.01
(2) Unproductive	2.31	2.00	2.19
15.—Other Revenue Expenditure financed from ordinary Revenues—Works for which neither Capital nor Revenue Accounts are kept ...	2.19	2.18	2.07
Average of all Works	3.69	3.71	4.00

The increase on productive works is due to the higher rates of assessment charged on lands commanded by the Barrage Canals.

Actual realizations under all heads and the balances outstanding.

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

Statement C.

Year.	COLLECTIONS.				
	Government land and Hakabo.	Miscellaneous.	4 per cent. Irrigation share of proceeds from sale of occupancy rights.	Total Receipts.	Balance outstanding on Hakabo.
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Average of past 3 years ...	1,13,50,972	2,07,363	3,00,020	1,18,58,355	9,05,769
1934-35	1,15,79,069	2,28,445	2,59,585	1,20,67,099	8,22,164
1935-36	1,28,62,618	2,90,071	2,59,478	1,34,12,167	10,77,212
Increase or decrease as compared with 1934-35.	12,83,549	61,626	—107	13,45,068	2,55,048
Increase or decrease as compared with the average of past 3 years.	15,11,646	82,708	—40,542	15,53,812	1,71,443

The balance outstanding at the end of the year shows an increase of Rs. 2,55,048 and Rs. 1,71,443, respectively, as compared with the figures of the previous year and the average of the past three years.

The percentage of outstandings is 8.0 as compared with 6.8 of the last year.

11. The remissions on Government land granted during the year amounted to Rs. 21,93,661 as compared with Rs. 28,28,947 for the previous year and Rs. 26,12,269 the average of the previous three years. The percentage of remissions on the gross assessment during the year was 13.7.

12. The remissions granted on Jagir land during the year were Rs. 3 as compared with Rs. 9 granted during the previous year and Rs. 838, the average of the previous three years.

13. The remissions on lands in Foreign Territory (Kalat) were Rs. 2,17,161 as compared with Rs. 2,08,242 during the previous year and Rs. 1,22,405 the average of the previous three years.

14. The following statement shows details of the causes of remissions with a comparison of the previous year's figures :—

Causes of remissions.		1935-36.	1934-35.	Difference.
		Rs.	Rs.	Rs.
Deficiency of water	...	5,86,533	11,64,931	—5,78,398
Floods, rains, hailstorms and erosion	...	1,66,464	1,06,259	60,205
Frost	...	1,00,385	1,76,175	—75,790
Special remissions	...	5,84,110	4,38,388	1,45,722
Percolation	...	1,10,321	1,02,126	8,195
Blight or Mahlo	...	56,342	821	55,521
Wire worms or insects	...	3,27,008	1,18,001	2,09,007
Rats	...	27,988	88,108	—60,120
Adverse winds	...	18,162	1,72,934	—1,54,772
Kalar	...	2,35,761	93,593	1,42,168
Written off	...	1,451	8,731	—7,280
Breaches of canals	...	9,805	3,99,654	—3,89,849
New Settlement	...	22,392	2,710	19,682
Fire	...	86	6,378	—6,292
Locusts	...	22,524	...	22,524
Green manure	...	9,217	...	9,217
Other causes	...	1,32,276	1,58,389	—26,113
Total	...	24,10,325	30,37,198	—6,26,373

15. The loss of canal revenue during the year due to the Loss to canals in concessionary rates charged to the Jagirdars Foreign and Jagir lands. in Sind and Zamindars in Kalat Territory, amounted to Rs. 6,74,413.

16. The total charges during the year on account of maintenance and repairs amounted to Rs. 87,56,484 as shown below :—

Expenditure on maintenance and repairs and establishment charged to revenue.	Works	Rs. 52,31,557
	Establishment, Tools and Plant	„ 30,17,126
	Percentage charges for revenue collections	„ 5,07,801
	Total	Rs. 87,56,484

The expenditure incurred on establishment charged to works amounted to Rs. 13,02,655 while the net expenditure incurred on works (silt clearance of canals and repairs) amounted to Rs. 39,28,902. As compared with the figure of the previous year the net expenditure on maintenance and repairs shows an increase of Rs. 2,67,571.

17. Of the total charges shown in the preceding paragraph Rs. 75,76,445 were on account of canals, Rs. 11,24,306 on account of river embankments and the balance, *viz.*, Rs. 55,733 was expended in the Development and Research Division.

18. The outlay during the year on new works, including establishment and Tools and Plant charges amounted to Rs. 64,05,661 as shown below :—

55—Construction of Irrigation, Navigation, Embankment and Drainage Works not charged to Revenue :—

(1) Productive ...	{	Capital ...	Rs. 62,18,236
		Revenue ...	„ 75,809
(2) Unproductive ...	{	Capital ...	„ 78
		Revenue ...	„ 180.
15—Other Revenue expenditure financed from ordinary Revenues		„	1,11,358
Total			Rs. 64,05,661

19. The general financial results of all Irrigation Works in Sind are shown in the following Statement D:—

Statement D.

Class of work.	Gross Assesed Revenue.	Working Expenses.	Net Revenue.	Simple interest.	Net profit 1935-36.	Net profit. 1934-35.	Increase.	Decrease
1	2	3	4	5	6	7	8	9
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
55.—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS NOT CHARGED TO REVENUE.								
I.—Productive ...	1,34,77,522	74,71,766	60,05,756	1,14,87,680	54,81,924	36,54,616	...	18,27,308
II.—Unproductive.	1,89,489	2,23,280	33,801	1,07,630	1,41,431	1,43,307	1,876	...
Total	1,36,66,981	76,95,026	59,71,955	1,15,95,310	56,23,355	37,97,923	...	18,25,432
15.—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUES WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.								
III.—Miscellaneous.	32,783	12,91,597	12,58,614	...	12,58,614	16,33,614	3,75,000	...
Total { 1935-36 ...	1,36,99,764	89,86,423	47,13,341	1,15,95,310	68,81,969	...	...	...
1934-35 ...	1,23,34,799	89,20,974	34,18,825	68,45,362	...	54,31,537	...	...
Difference	13,64,965	65,449	12,99,516	27,49,948	...	...	...	14,50,432

The increased loss of revenue on the Productive Works as compared with the previous year is mainly due to the increase in interest charges.

20. The following statement shows the expenditure incurred per acre of area irrigated under all classes of works, excluding the cost of surveys for definite projects:—

Statement E.

Total area irrigated by all classes of works.	Total working expenses and maintenance of canals.	Rate of working expenses per acre of area irrigated.	Expenditure on agricultural works (excluding cost of surveys for special projects).	Rates of expenditure on agricultural works per acre of area irrigated (Col. 4 ÷ 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.
3,874,305	76,95,026	2'0	12,25,080	0'32	2'32

The total working expenses, including those on account of agricultural works, amounted to Rs. 2.32 per acre of the total area irrigated as compared with Rs. 2.43 per acre of the area irrigated in the previous year and Rs. 2.30 per acre of the average area irrigated during the past three years.

21. The mileage of main canals in operation during the year was 2093.05 and that of the branch canals was 7589.15 or a total of 9682.20 as compared with 9549.85 miles during last year. The increase is due to the construction of new distributaries and minors which were found necessary.

The total length of river embankments maintained during the year was 916.18 miles as compared with 1104.75 miles during the previous year, the main reason for the difference being the exclusion this year of the mileage of 218.09 of the Eastern Nara Banks, which was included under bunds in the previous year.

22. The areas of principal crops grown during the year are shown in the sub-joined Statement F:—
Area of principal crops Government, Foreign and Jagir including Dubari.

Statement

Crops.	1935-36.			Average of previous 3 years.	1934-35.	Increase or decrease as compared with average.	Increase or decrease as compared with 1934-35.
	Lift.	Flow.	Total.				
1	2	3	4	5	6	7	8
KHARIF.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Rice	47	1,114,814	1,114,861	1,097,460	1,102,118	17,411	12,743
Jowari	77,475	333,298	410,773	404,366	352,101	6,407	58,672
Bajri	57,703	189,434	247,137	376,223	1,290,098	— 129,056	— 42,961
Cotton	47,040	722,374	769,414	491,320	619,249	275,091	150,165
Sugarcane	933	2,703	3,636	3,032	3,110	604	526
Other Crops	9,391	83,933	93,324	92,686	89,570	658	3,754
Total	192,589	2,446,556	2,639,145	2,468,057	2,456,246	171,088	182,699
RABI.							
Wheat	67,515	931,537	999,052	970,918	989,367	28,134	9,685
Barley	937	11,417	12,354	9,069	10,357	3,285	1,997
Oil-seeds	1,730	156,141	157,871	163,171	127,698	— 5,300	30,173
Other crops	3,925	503,771	507,696	486,845	456,925	20,851	50,771
Total	74,107	1,602,866	1,676,973	1,630,003	1,584,347	46,970	92,626
GRAND TOTAL	266,696	4,049,422	4,316,118	4,098,060	4,040,593	218,058	275,525

Compared with the previous year, there was an increase of 182,899 acres under kharif crops and 92,626 acres under rabi crops. Compared with the average of the previous three years, there was an increase of 171,088 acres under kharif and 46,970 acres under rabi.

23. The percentages of Kharif and Rabi areas irrigated during the year were 61 and 39, respectively, being the same as those of last year.

Percentages of Kharif and Rabi.

24. The percentages of lift and flow cultivation during the year were 6 and 94, respectively, compared with 7 and 93 in the previous year.

Percentages of Lift and Flow.

25. The principal crops grown during kharif were Rice, Jowari, Bajri and Cotton. The total area of 'Rice' was 1,114,861 acres, of which 274,664 acres were cultivated on the Rice Canal System and 47,645 acres on the Dadu Canal System, 120,293 acres on North Western Canal System, 90,195 acres on the Eastern Nara System, 183,086 acres on Fuleli Canal, and 133,061, 170,037 and 60,600 acres, respectively, in the Karachi, Begari and Shikarpur Canals Divisions.

Principal crops.

The total area of 'Jowari' amounted to 410,773 acres, of which 66,693 acres were cultivated on the North Western Canal, 78,627 acres on the Rohri Canal, 37,179 on the Dadu Canal System, 134,704 acres in the Begari Canals Division and 61,256 acres in the Shikarpur Canals Division.

The total area of 'Bajri' amounted to 247,137 acres, of which 58,805 acres were on the Eastern Nara System and 94,511 acres on the Rohri Canal System.

The total area of 'Cotton' amounted to 769,414 acres, of which 359,566 acres were cultivated on the Eastern Nara System and 387,281 acres on the Rohri Canal System.

The principal crops grown during Rabi were Wheat and Oil-seeds. The total area under Wheat was 999,052 acres and was largely grown in the Barrage Zone. The total area of Oil-seeds was 157,871 acres, of which 85,684 acres were cultivated in the Barrage Zone and 27,439 acres were in the Begari Canals Division. Of the total area of 507,696 acres cultivated under Other Crops, 243,498 acres were in the Barrage Zone and 171,117 acres were in the Begari Canals Division.

26. The duties and deltas obtained on the canals are detailed for each canal in the following statement :—

Name of Canal System.	Year under report.				Last year.				Remarks
	Duty acres per cusec.		Delta feet.		Duty acres per cusec.		Delta feet.		
	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	
1	2	3	4	5	6	7	8	9	10
1. Rohri Canal System ..	70.2	51.5	5.2	5.7	65.0	51.3	5.4	5.8	
2. Eastern Nara System ...	49.6	40.5	7.4	7.4	47.0	45.3	7.7	6.6	
3. North-Western Canal System.	59.2	74.8	6.1	4.0	50.0	84.5	7.0	3.6	
4. Rice Canal System ...	50.2		3		45.3		6.3		
5. Dadu Canal System ...	52.7	79.3	6.9	4.6	43.0	65.8	8.0	4.6	
6. Desert Canal ...	82.2		3.0		52.6		4.4		
7. Unherwah ...	56.1		4.4		51.6		5.3		
8. Begari Canal ...	54.1		5.4		50.0		5.7		
9. Canals in Rohri ...	25.3		8.2		20.1		9.3		
10. Sind Canal ...	35.0		6.5		33.4		6.7		
11. Rajib Canal ...	48.6		4.4		47.3		4.7		
12. Chitti Canal ...	35.7		3.1		37.1		6.0		
13. Garang Canal ...	24.0		8.8		24.0		9.2		
14. Pinyari Canal ...	41.2		6.7		42.4		5.6		
15. Sattah Canal ...	18.2		7.8		22.9		8.3		
16. Baghar Canal ...	30.5		7.8		18.4		12.3		
17. Fuleli Canal ...	37.5	77.3	8.5	2.8	47.7	73.3	7.1	2.1	
18. Mahiwah ...	33.1		6.0		27.8		8.2		
19. Kalri Canal ...	17.2		8.5		23.9		7.0		
20. Hassanali Canal ...	32.7		8.0		27.9		5.7		

27. On the productive works classed under "55.—Construction of Irrigation, Navigation, Embankment and Drainage Works", the incidence of working expenses on assessed revenue and per acre irrigated were as under :—

	On assessed revenue.	Per acre irrigated (excluding Dabari).
		Rs.
Barrage Canals ...	51.4 per cent.	2.12
Inundation Canals ...	74.46 „	1.64

The incidence of working expenses on the Unproductive works was 117.84 per cent. on assessed revenue and Rs. 2.59 per acre irrigated.

28. The total value of crops grown on the irrigated area of 4,316,118 acres, as estimated by the Revenue authorities was Rs. 7,24,43,001 which gives an average value of Rs. 17 per acre. This figure is very unreliable.

29. The following table shows the total number of ordinary wells in actual use in Sind, the total area irrigated by them, etc. :—

Total number of ordinary wells in actual use.	Total area irrigated by the wells shown in column 1, during 1935-36.	Total number of wells in working order, but not used.	Total number of abandoned wells.
1	2	3	4
No.	Acres.	No.	No.
9,607	56,279	25,511	2,845

(iv) DETAILS OF WORKS FOR WHICH CAPITAL ACCOUNTS ARE KEPT.

(1) PRODUCTIVE.

(a) LLOYD BARRAGE AND CANALS.

30. The scheme consists of a Barrage or Weir constructed across the River Indus, three miles below the gorge at Sukkur, together with three canals on the Right Bank of the river and four canals on the Left Bank of the river taking off therefrom, each canal being provided with a separate head regulator :—

Right Bank.

- (1) North Western Canal.
- (2) Rice Canal.
- (3) Dadu Canal.

Left Bank.

- (4) Eastern Nara.
- (5) Rophri Canal.
- (6) Khairpur Feeder East.
- (7) Khairpur Feeder West.

The project is designed to secure perennial irrigation to the areas comprising parts of the Upper Sind Frontier, Sukkur, Larkana and Dadu Districts and part of Nasirabad Tahsil of Baluchistan on the Right Bank of the River Indus, and areas in the Nawabshah, Thar Parkar and part of the Hyderabad Districts on the Left Bank of the River Indus.

The area under command in British Territory, amounts to 7,230,000 acres, of which 5,042,000 acres will be cultivated annually on attainment of full development. The area irrigated in the Barrage Zone, prior to the opening of the new canals, was, according to the latest corrected figure 1,688,000 acres annually and the increased irrigation provided for, will therefore amount to 3,354,000 acres.

The Lloyd Barrage and Canals were formally opened by His Excellency the Viceroy on the 13th January 1932, and the year under report is the fourth working year of the new canals.

The pond level of R. L. 194.5 at the Barrage was reached on the 27th July when all the gates were lifted clear of the water. The maximum level obtained at the Barrage, with all gates fully open was R. L. 195.90 on the 25th August.

The head regulators were worked according to requirements. All perennial canals were closed from 12th to 27th December 1935 and again from 12th to 27th March 1936. Dadu Canal in the latter closure was closed upto 4th April. These two closures were arranged for the inspection of all under-water work of masonry structures and for carrying out any repairs that were found necessary. The non-perennial Rice Canal was opened on 6th May 1935, and closed on 12th October 1935.

(i) *North Western Canal System.*

The system comprises the main North Western Canal and the Warah, Ratodero, Shahdadt and Khirtar Branches. The system worked quite satisfactorily with the result that all the channels received regulated supplies according to requirements. Masonry chabbs and cross regulators were headed up wherever necessary to get Full Supply Level in the channels.

(ii) *Rice Canal System.*

The Rice Canal System comprises the Rice Canal and the Ghar, Dhamrao and Mehar Branches. The Rice Canal was opened on 6th May 1935, with a discharge of 1,055 cusecs. The maximum water level admitted at the head was 193.40 on 6th July 1935 when the discharge was 9,815 cusecs. The maximum discharge taken was 10,099 cusecs on the 11th July 1935. The canal worked very well and being a kharif canal it was closed entirely on the 12th October 1935.

(iii) *Dadu Canal System.*

The system comprises the Dadu Canal and the Johi Branch. The system worked satisfactorily. The maximum discharge admitted in the canal at head was 3,069 cusecs on 22nd August 1935.

(iv) *Eastern Nara System.*

The system comprises the Eastern Nara, Jamrao Canal with its Branches, Mithrao Canal with its Branches, Khipro Canal with its Branches and the Hiral and Thar Canals. The system worked very satisfactorily.

(v) *Rohri Canal System.*

The system comprises the main Rohri Canal with the following Branches:—

(1) Naulakhi	(8) Hala
(2) Mehrabpur	(9) Alibahar
(3) Sehra	(10) Shahdadpur Jam
(4) Nasrat	(11) Tando Adam
(5) Amurji	(12) Hyderabad
(6) Dad	(13) Nasir
(7) Thul	(14) Sarfraz

The water-supply was adequate in the Main Canal for the requirements of all the channels both in Kharif and Rabi. The maximum water level at the head of Rohri Canal was 190'6 (10'1 on gauge) on the 24th September 1935, against the designed Full Supply Level of 192'5. Scour continued in the head reach of the Main Canal and considerable seepage was apparent in the first 30 miles of the canal. The scour is being allowed to take place unhindered so that the bed may eventually become stable and natural sealing may result with consequent reduction in the extent of the seepage loss.

(vi) *Manchar Drainage System.*

The works consist of a new cut from the river near Sehwan, the widening of the Aral Manchar, the construction of the Manchar Containing Banks and the Aral-Laki Drain. The head regulator over Aral Manchar was made double acting i.e., water pressure could be allowed on both downstream and upstream sides of the gate, and despite keeping the head regulator over the Aral Manchar completely open throughout the Abkalani, the Lake could only be filled up to R.L. 110'7 as against 111'0 designed. This was due to the late rise and quick fall of the river and the absence of floods from the hills. The Lake was drained off to R.L. 105'5 by the beginning of December 1935 and the strip of land between the two levels was thus made available for rabi cultivation.

As a result of the experience gained of the working of the Main Nara Valley Drain it was found necessary to widen and deepen the low level drain in the bed of the Main Drain. Good progress was made with the raising, strengthening and extension of Gaj Nai Works which works were in progress from the previous year.

Capital.—An expenditure of Rs. 60,84,350 was incurred during the year on the construction of new works.

Extensions and Improvements.—A sum of Rs. 18,683 was expended during the year under this head.

Maintenance and Repairs.—The new canals and the old canals merged into the Barrage Canals were maintained in good order at a cost of Rs. 32,01,835 including the cost of works establishment.

Irrigation.—The total area irrigated by the Barrage Canals amounted to 2,955,512 acres, of which 1,726,473 acres were under kharif and 1,229,039 acres under rabi as compared with the total area of 2,774,236 acres cultivated during the last year.

Financial Results.—The gross assessed revenue of the Barrage Canals from all sources amounted to Rs. 1,11,18,618. Deducting working expenses, *viz.*, Rs. 57,15,304 and the share due to old pre-Barrage Canals, *viz.*, Rs. 5,37,272 the net revenue amounted to Rs. 48,66,042.

General Remarks.—The remissions granted during the year totalled Rs. 13,77,722 as compared with the sum of Rs. 15,02,610 remitted in the Barrage Zone during the last year.

The principal crops grown were—

Rice ...	...	...	537,084 acres.
Jowari...	...	...	209,162 „
Bajri ...	...	...	154,646 „
Cotton...	...	...	760,608 „
Wheat...	...	...	894,306 „
Oil-seeds	...	...	85,684 „

The value of the whole outturn was estimated by the Revenue Authorities at Rs. 5,37,22,494 equal to an average of Rs. 18 per acre, but this figure is very unreliable.

(b) DESERT CANAL.

31. The Desert Canal was fed from its old head which was opened on the 1st June 1935 and it ceased flowing on the 1st October 1935. The canal had full supply discharge of 3,158 cusecs and over for 52 days. A pick up “Ghunda” was constructed in the working season across the Bakhtu Dhandh below the off-take of the old head with a view to obtain early supply and high level of water and this helped early irrigation considerably.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canal with its branches was maintained in good order at a cost of Rs. 1,23,335 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 239,972 acres, of which 149,737 acres were under kharif and 90,235 acres under rabi as compared with 153,265 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 3,02,277. Deducting working expenses, *viz.*, Rs. 2,03,002 the net revenue amounted to Rs. 99,275.

General Remarks.—The remissions granted during the year totalled Rs. 1,84,987 as compared with Rs. 260,931 remitted last year.

The principal crops grown were—

Rice	...	...	...	48,368 acres.
Jowari	...	...	...	75,354 „
Bajri	...	...	...	18,661 „
Wheat	...	...	...	25,408 „
Oil-seeds	...	...	...	17,750 „

(c) UNHERWAH.

32. The canal was opened on the 5th June 1935 and it ceased to flow on the 5th October 1935. Owing to the abrupt fall of the river rotations were resorted to and most of the crops were matured. To augment the supply the water in the Haibat Compartment and Sind Dhoro was drained in the canal as much as possible.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canal with its branches was maintained in good order at a cost of Rs. 50,099 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 98,969, acres, of which 50,818 acres were under kharif and 48,151 acres under rabi, as compared with 107,770 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 1,86,527. Deducting working expenses, *viz.*, Rs. 88,371 the net revenue amounted to Rs. 98,156.

General Remarks.—The remissions granted during the year totalled Rs. 90,773 as compared with the sum of Rs. 91,145 remitted last year.

The principal crops grown were—

Rice	...	...	...	16,307	acres.
Jowari	...	...	...	17,584	„
Bajri	...	...	...	13,273	„
Wheat	...	...	...	18,546	„
Oil-seeds	...	...	...	2,294	„

(d) BEGARI CANAL.

33. The Canal was opened on the 10th June and was closed on the 2nd November 1935. The new head given to this Canal and the judicious rotations at the end of August when the river fell abruptly, enabled most of the crops on the system to be matured. To save standing crops on certain parts of the system, water from the Sind Canal and the Khirtar Branch was allowed, wherever possible as a special case. The supply was supplemented from the Gouspur Compartment also.

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

Extensions and Improvements.—A sum of Rs. 849 was expended during the year under this head.

Maintenance and Repairs.—The canal with its branches was maintained in good order at a cost of Rs. 2,57,931 including the cost of works establishment.

Irrigation —The total area irrigated during the year amounted to 290,956 acres, of which 158,613 acres were under kharif and 132,343 acres under rabi, as compared with 282,248 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 5,43,267. Deducting working expenses, *viz.*, Rs. 4,35,145 and the share due to old pre-British Canals, *viz.*, Rs. 28,840 the net revenue amounted to Rs. 79,282.

General Remarks.—The remissions granted during the year totalled Rs. 2,51,500 as compared with the sum of Rs. 3,54,600 remitted last year.

The principal crops grown were—

Rice	...	...	105,362	acres.
Jowari	...	...	41,766	„
Bajri	...	...	6,390	„
Wheat	...	...	28,121	„
Oil-seeds	...	...	7,395	„

(e) SUKKUR CANAL.

34. The Canal has two heads—one for kharif called the 'Rahuja Head' and the other for rabi known as the 'Old Head'. The Canal beyond mile 5/3 has been abandoned as it is cut off by the North Western Canal. As there is very little area dependent on it, both the head regulators remained closed throughout the year the leakage alone being more than sufficient. As the canal remains full of water throughout the year, there is good cultivation throughout. It has the advantage of the heading up at the Barrage.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canal was maintained in good order at a cost of Rs. 2,271 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 5,811 acres, of which 2,655 acres were under kharif and 3,156 acres under rabi as compared with the area of 5,336 acres irrigated during the last year.

Financial Results.—The gross revenue from all sources amounted to Rs. 15,623. Deducting working expenses, *viz.*, Rs. 7,685 and the share due to old pre-British Canals, *viz.*, Rs. 2,714 the net revenue amounted to Rs. 5,224.

General Remarks.—The remissions granted during the year totalled Rs. 4,742 as compared with Rs. 4,698 remitted last year.

The principal crops grown were—

Rice	...	...	1,851 acres
Jowari	...	...	729 „
Wheat	...	...	549 „
Oil-seeds	...	...	249 „

(f) CANALS IN ROHRI.

35. This system comprises small canals situated on the Left Bank of the River Indus above Sukkur. All the canals worked satisfactorily, except Koraiwah and Mahesrowah which take off from the Miranpur Dhand which was badly silted on account of erosion in the bye-river.

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

Extensions and Improvements.—A sum of Rs. 7,259 was expended during the year under this head.

Maintenance and Repairs.—The canals were maintained in good order at a cost of Rs. 74,665 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 41,612 acres, of which 28,711 acres were under kharif and 12,901 acres under rabi, as compared with 29,920 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 1,01,738. Deducting working expenses, viz., Rs. 1,32,503, a loss of Rs. 30,765 resulted on this canal.

General Remarks.—The remissions granted during the year totalled Rs. 18,628 as compared with Rs. 16,226 remitted last year.

The principal crops grown were—

Rice	...	...	3,584 acres
Jowari	...	...	18,780 „
Bajri	...	...	3,642 „
Cotton	...	...	800 „
Wheat	...	...	7,019 „
Oil-seeds	...	...	769 „

(g) SIND CANAL.

36. This system worked satisfactorily. The head regulator of Colonel Fife's Channel was in operation throughout most of the season to control the supply which otherwise caused water-logging in and about the town of Shikarpur.

Capital.—An expenditure of Rs. 3 was incurred during the year.

Extensions and Improvements.—A sum of Rs. 16,451 was expended during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 60,997 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 96,778 acres, of which 55,386 acres were under kharif and 41,392 acres under rabi, as compared with the area of 85,918 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 2,64,032. Deducting working expenses, viz., Rs. 1,34,447 the net revenue amounted to Rs. 1,29,585.

General Remarks.—The remissions granted during the year totalled Rs. 45,750 as compared with the sum of Rs. 47,911 remitted last year.

The principal crops grown were —

Rice	...	...	34,958	acres.
Jowari	...	...	15,685	„
Wheat	...	...	4,810	„
Oil-seeds...	...	...	1,644	„

(h) RAJIB, CHITTI AND GARANG CANALS.

37. These Canals had a good supply and worked satisfactorily.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canals were maintained in good order at a cost of Rs. 12,766 including the cost of works establishment.

Irrigation.—The total area irrigated by the Barrage Canals amounted to 28,965 acres, of which 14,332 acres were under kharif and 14,633 acres under rabi, as compared with the area of 25,525 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 82,596. Deducting working expenses, viz., Rs. 24,213 the net revenue amounted to Rs. 58,383.

General Remarks.—The remissions granted during the year totalled Rs. 15,778 as compared with the sum of Rs. 15,488 remitted last year.

The principal crops grown were —

Rice	1	...	...	...	9,598 acres.
Jowari	...	...	...	...	3,748 „
Wheat	...	...	...	...	1,772 „
Oil-seeds	...	...	...	...	642 „

(i) INDUS CANALS, RIGHT BANK.

38. This system comprises a number of canals taking off direct from the Right Bank of the River Indus in Lower Sind. These Canals did not work very satisfactorily during the year under report.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canals were maintained in good order at a cost of Rs. 14,653 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 14,405 acres, of which 8,679 acres were under kharif and 5,726 acres under rabi as compared with the area of 11,885 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 16,734. Deducting working expenses, viz., Rs. 23,583 a loss of Rs. 6,849 resulted on these canals.

General Remarks.—The remissions granted during the year totalled Rs. 15,911 as compared with the sum of Rs. 15,290 remitted last year.

The principal crops grown were—

Rice	...	...	...	6,913 acres.
Bajri	...	...	...	907 „
Wheat	...	...	...	1,882 „

(j) INDUS CANALS, LEFT BANK.

39. This system comprises a number of canals taking off direct from the left bank of the River Indus in Lower Sind.

These Canals worked fairly well inspite of the low level of the river.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canals were maintained in good order at a cost of Rs. 66,957 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 29,839 acres, of which 26,367 acres were under kharif and 3,472 acres under rabi as compared with the area of 32,747 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 54,538. Deducting working expenses, *viz.*, Rs. 1,05,570, a loss of Rs. 51,032 resulted on these canals.

General Remarks.—The remissions granted during the year totalled Rs. 34,409 as compared with the sum of Rs. 56,017 remitted last year.

The principal crops grown were —

Rice	...	...	...	24,857 acres.
Bajri	...	...	...	1,253 „
Oil-seeds	...	...	...	1,140 „

(k) PINYARI CANAL.

40. The Canal worked fairly well except that considerable deficiency was felt in the tail reaches. Owing to low level of water in the river rotations had to be resorted to both in the beginning and at the end of the season.

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

Extensions and Improvements.—A sum of Rs. 1,556 was expended during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 1,55,018 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 91,465 acres, of which 75,186 acres were under kharif and 16,279 acres under rabi as compared with the area of 95,860 acres cultivated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 1,54,992. Deducting working expenses, viz., Rs. 2,49,345 a loss of Rs. 94,353 resulted on this canal.

General Remarks.—The remissions granted during the year totalled Rs. 1,10,028 as compared with the sum of Rs. 1,53,569 remitted last year.

The principal crops grown were —

Rice	...	...	...	71,939 acres.
Bajri	...	...	...	1,321 „
Barley.	...	...	...	1,796 „
Oil-seeds...	...	...	...	10,301 „

(1) BAGHAR CANAL.

41. The head regulator over the canal was kept fully open during the whole Abkalani as the gauge never rose above the Full Supply Level of 15'0 feet which was available for only nine days: The necessity for a tail regulator was keenly felt.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 29,340 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 21,912 acres, of which 16,563 acres were under kharif and 5,349 acres under rabi as compared with the area of 25,637 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 22,185. Deducting working expenses, *viz.*, Rs. 46,811 a loss of Rs. 24,626 resulted on this canal.

General Remarks.—The remissions granted during the year totalled Rs. 27,352 as compared with the sum of Rs. 40,335 remitted last year.

The principal crops grown were—

Rice	...	...	...	11,590 acres.
Bajri	...	...	...	3,617 „
Barley	...	...	...	1,120 „

(m) SATTAR CANAL.

42. The Canal worked fairly well during the year under report. Owing to abrupt fall of the river, the crops on high lands failed to mature.

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

Extensions and Improvements.—A sum of Rs. 35 was expended during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 8,075 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 12,256 acres, of which 10,830 acres were under kharif and 1,426 acres under rabi as compared with the area of 13,990 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 22,062. Deducting working expenses, *viz.*, Rs. 10,472 and the share due to old pre-British Canals, *viz.*, Rs. 16,145 a loss of Rs. 4,555 resulted on this Canal.

General Remarks.—The remissions granted during the year totalled Rs. 12,547 as compared with the sum of Rs. 14,822 remitted last year.

The principal crops grown were—

Rice	...	...	...	10,023 acres.
Bajri	...	...	...	641 „

(n) FULELI CANAL.

43. Owing to the clearance of the Canal in the first $3\frac{1}{2}$ miles by Dragline machines upto the payment level of the head regulator, the Canal flowed earlier during the year. This early supply was carried to the tail channels in the Badin Taluka where agricultural operations were started early along most of the canals. The abrupt fall of the river did not prove harmful as the standing crop was mostly saved by enforcing judicious rotations with the help of newly constructed cross regulators.

Capital.—An expenditure of Rs. 1,33,928 was incurred during the year under this head.

Extentions and Improvements.—A sum of Rs. 2,475 was expended during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 1,45,980 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 247,297 acres, of which 210,248 acres were under kharif and 37,049 acres under rabi as compared with the area of 256,417 acres irrigated during the last year.

Financial Results.—The gross assessed revenue received from all sources amounted to Rs. 5,58,621. Deducting working expenses, viz., Rs. 2,69,636 and the share due to old pre-British Canals, viz., Rs. 1,85,613 the net revenue amounted to Rs. 1,03,372.

General Remarks.—The remissions granted during the year totalled Rs. 1,32,667 as compared with the sum of Rs. 3,46,526 remitted last year.

The principal crops grown were—

Rice	...	...	...	183,086 acres.
Bajri	...	...	...	19,544 „
Cotton	...	...	...	3,288 „
Wheat	...	...	...	3,200 „
Oil-seeds	...	...	...	26,068 „

(o) OTHER CANALS IN FULALI CANALS DIVISION.

44. These Canals flowed from 10th July to 3rd September 1935. The rice cultivation suffered considerably due to the rapid fall of the river, but was saved to a great extent by giving cuts to canal banks to drain spill water of the river into the canals. The dry crop was, however, good.

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

Extensions and Improvements.—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canals and their branches were maintained in good order at a cost of Rs. 24,003 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 18,961 acres, of which 17,397 acres were under kharif and 1,564 acres under rabi as compared with the area of 17,975 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 33,712. Deducting working expenses, viz., Rs. 39,041 a loss of Rs. 5,329 resulted on these canals.

General Remarks.—The remissions granted during the year totalled Rs. 18,210 as compared with the sum of Rs. 23,419 remitted last year.

The principal crops grown were:—

Rice	...	...	...	11,356 acres.
Bajri	...	...	...	5,651 "

(2) UNPRODUCTIVE.

(a) MAHIWAH.

45. Owing to the sudden and rapid fall of the river at the end of August the kharif crops on high lands suffered as the last watering could not be arranged for want of sufficient number of cross regulators. This system on the whole worked satisfactorily.

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

Extensions and Improvements.—A sum of Rs. 171 was expended during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 67,225 including the cost of works establishment.

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Irrigation.—The total area irrigated during the year amounted to 66,121 acres, of which 45,514 acres were under kharif and 20,607 acres under rabi as compared with the total area of 58,010 acres irrigated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 1,36,899. Deducting working expenses, *viz.*, Rs. 1,08,177 and the share due to old pre-British Canals, *viz.*, Rs. 1,10,497, a loss of Rs. 81,775 resulted on this canal.

General Remarks.—The remissions granted during the year totalled Rs. 15,153 as compared with the sum of Rs. 14,929 remitted last year.

The principal crops grown were—

Rice	...	...	...	10,609 acres.
Jowari	...	...	...	22,314 „
Bajri	...	...	...	7,748 „
Cotton	...	...	...	2,828 „
Wheat	...	...	...	7,067 „

(b) KALRI CANAL.

46. This Canal did not work satisfactorily, chiefly on account of poor inundation, scour in the river bed and active erosion at the mouth of the Canal. It flowed from 20th June to 4th September 1935.

Capital.—An expenditure of Rs. 78 was incurred under this head during the year.

Extensions and Improvements.—A sum of Rs. 473 was expended during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 53,591 including the cost of works establishment.

Irrigation.—The total area irrigated during the year amounted to 14,746 acres, of which 11,637 acres were under kharif and 3,109 acres under rabi as compared with the total area of 16,403 acres cultivated during the last year.

Financial Results.—The gross assessed revenue from all sources amounted to Rs. 18,981. Deducting working expenses, *viz.*, Rs. 84,458 a loss of Rs. 65,477 resulted on this canal.

General Remarks.—The remissions granted during the year totalled Rs. 23,453 as compared with the sum of Rs. 24,642 remitted last year.

The principal crops grown were—

Rice	...	...	...	7,739	acres.
Bajri	...	...	...	2,930	„
Barley	...	...	...	1,079	„

•(c) HASSANALI CANAL.

47. The Canal flowed with a full supply level of 1110 feet for 49 days against 60 days in the previous year. The high lands between Kapur and Ali Khan Regulator suffered to some extent although a considerable area was saved by judicious rotations.

Capital.—No expenditure was incurred under this head.

Extensions and improvements—No expenditure was incurred during the year under this head.

Maintenance and Repairs.—The canal and its branches were maintained in good order at a cost of Rs. 19,282 including the cost of works establishment.

Irrigation.—The area irrigated during the year amounted to 17,163 acres, of which 16,433 acres were under kharif and 720 acres under rabi as compared with 19,639 acres irrigated during the last year.

Financial Results.—The gross assessed revenue during the year amounted to Rs. 33,579. Deducting working expenses, *viz.*, Rs. 30,625 and the share due to old irrigation, *viz.*, Rs. 5,916 a loss of Rs. 2,962 resulted on this canal.

General Remarks.—The remissions granted during the year totalled Rs. 17,889 as compared with Rs. 33,518 remitted last year.

The principal crops grown were—

Rice		...	...	13,050	acres.
Bajri		...	...	3,047	„

(v) DETAILS OF WORKS FOR WHICH CAPITAL
ACCOUNTS ARE NOT KEPT.

48. *River Bunds.*—The principal river bunds are the Kashmore Bund System, the Sukkur-Begari Bund System, Kassimpur-Nabishah Bund on the left bank of the River above Rohri, the Nara Bund System on the Right Bank of the River Indus, and a line of bunds running along the left bank of the river from a point downstream of the boundary of the Khairpur State to Doulatpur. In the Karachi Canals Division in Lower Sind there are two lines of bunds—one situated along the right bank and the other along the left bank of the River. In addition to the above bunds there are Flood Protective and Flood Diversion Bunds—the former is situated

on the western boundary of the Barrage Command and protects the areas situated in the Barrage Zone from the effects of hill torrents and the latter is situated to the North of the Eastern Nara and protects it from the Ghotki and Sarhad floods.

Kashmore Bund.—Several lengths of this bund were wetted artificially in advance of their being subjected to river spill water during the Abkalani. The bund stood well although at many places the recorded High Flood Level was exceeded. There were many leaks, especially in the Left Bank Begari Bund which were promptly detected and closed. There was pressure against this bund which was relieved by giving an artificial cut in it. The abandoned Begari head of 1934 gradually filled up and thus disaster was averted. Heavy erosion of the river edge occurred opposite Goraghat.

Sukkur-Begari Bund.—The water first touched this bund on the 6th of June and stood against it for three months and was at its highest level from the first week of July to the last week of August. There were few leaks which were promptly detected and closed.

Kassimpur-Nabishah Bund.—There was active erosion opposite miles 5/0 to 8/0 of this bund, but fortunately in the second rise of the river it became less active and by the close of the Abkalani the river had receded opposite miles 6 and 7. A breach, however, occurred on the 21st August due to the sudden washing away of the sluice at mile 8/0 and there was some loss of property, but no loss of human life occurred.

Bunds on the Left Bank in the Rohri Canal Circle.—The river was low up to the beginning of June 1935 and thereafter went on rising, but the rise was not so great as to cause much pressure against the bunds. The Gharo Mahumudo and Matiari-Khebar Bunds under construction last year were completed during the year under report.

Bunds in the Karachi Canals Division.—There was no cause for anxiety. The necessary precautions were taken to lessen the damage usually caused by wave-wash. Due to active river erosion opposite Ketī Bundar town an emergency loop was constructed.

Extensions and Improvements.—A total sum of Rs. 79,693 was spent during the year on extensions and improvements to all the river bunds in Sind.

Maintenance and Repairs.—All bunds in Sind were maintained in good order at a cost of Rs. 8,23,574, including the cost of work-charged establishment, as compared with Rs. 9,70,917, expended during the last year.

Irrigation and Financial Results.—The total area irrigated by the aid of the bund system was 23,378 acres of which 13,556 acres were during kharif and 9,822 acres during rabi, as compared with 27,812 acres irrigated during last year.

The gross revenue amounted to Rs. 32,783 while the working expenses were Rs. 12,91,397.

(VI) GARDENS.

49. The expenditure incurred on, and the receipts from gardens during the year are compared below with the figures of the previous three years :—

Years.			Expenditure on maintenance during the year.	Receipts during the year.
			Rs.	Rs.
1932-33 ...	...	...	14,379	4,780
1933-34 ...	...	...	20,120	2,895
1934-35 ...	...	...	20,026	1,657
1935-36 ...	...	...	13,998	1,941

(VII) INDUS RIVER COMMISSION.

50. The expenditure on all works including Surveys carried out during the year under the direct supervision of the Secretary, Indus River Commission, was charged to "15—Other Revenue Expenditure Financed from Ordinary Revenues—Works for which neither Capital nor Revenue Accounts are kept".

Survey of the River Indus.—The main course of the river was surveyed from a point 34 miles above Kashmore to Soukhi, 30 miles below bifurcation at the delta. The total length surveyed during the year including Hyderi was 572½ miles. Several works in connection with the demarcation of district boundaries were also carried out.

Gauge Readings and River Discharges.—The daily observations of discharges of the River Indus and gauge readings were continued at (1) Sind Site, (2) Panjnad at Daka, (3) Mithankot, (4) Sukkur, (5) Kotri and (6) Tikhur (Jherruck). The natural minimum gauge reading at Bukkur could not be observed owing to the working of the Barrage gates. At Kotri the maximum gauge reading was 23·6 feet on 30th August 1935 with a maximum discharge of 481,481 cusecs. The minimum gauge reading during the year was 0·3 on the 7th March 1936 and a minimum discharge was 4,199 cusecs against gauge reading 0·3 on the 29th February 1936. The very low discharge and gauge reading at Kotri were the results of cutting off of a large portion of the discharge at Sukkur for the Barrage Canals.

(VIII) DEVELOPMENT AND RESEARCH WORKS.

51. About 516 square miles of land within the Barrage Canals on the Right and Left Banks in which kalar has been found predominant and the area between the Warah and the North Western Canal on the Right Bank where a definite tendency for the water table to rise has been noticed were investigated in detail. Except in the vicinity of the town of Shikarpur sub-soil water level shows signs of slight falling in the Begari and Shikarpur areas. In order to collect the necessary data and to give early warning of any considerable rise in the sub-soil water level about 2,500 observation pipes have been fixed all over the area where dangerous conditions are likely to arise and water levels in these as well as in some 625 wells are being regularly observed.

(IX) OPERATIONS OF THE DRAINAGE DIVISION.

52. The question of waterlogging is receiving very careful attention and every effort is being made to prevent any extension of the evil and to provide a suitable remedy where it has already occurred. The Drainage Schemes were being investigated and worked out during the year under report.

V.—CIVIL WORKS.

There is only one purely Roads and Buildings Division in this Province, *viz.*, the Karachi Buildings Division with head-quarters at Karachi. Civil Works outside Karachi are carried out by Executive Engineers in-charge of Irrigation Divisions. During the year under review, Civil Works of the aggregate value of Rs. 13,58,358 were carried out in the Province.

A.—BUILDINGS—CENTRAL.

The expenditure on Central Civil Works—Original and Repairs—undertaken by this Department on behalf of the Central Government on agency basis was Rs. 34,205, the details of which are given below:—

Customs—

				Rs.
Works	...	...	...	780
Repairs	...	...	...	11,628
Total				12,408

Salt—

Works		...	...	150
Repairs	...	...	...	3,249
Total				3,399

Ecclesiastical—

				Rs.
(a) Churches—				
Works ...	...	...	...	118
Repairs ...	...	...	...	2,752
(b) Burial Grounds—				
Repairs ...	...	...	...	3,788
(c) Miscellaneous—				
Repairs ...	...	...	...	445
		Total	...	<u>7,103</u>

Scientific Departments—

Works ...	...	...	...	78
Repairs ...	...	...	...	328
		Total	...	<u>406</u>

Public Health—

Works	...	...	...	363
Repairs ...	...	...	...	3,236
		Total	...	<u>3,599</u>

Currency—

Under this head an expenditure of Rs. 1,267 was incurred on repairs.

Miscellaneous—

Under this head an expenditure of Rs. 6,023 was incurred on repairs.

B—BUILDINGS—PROVINCIAL.

The details of the expenditure amounting to Rs. 4,35,059 on Provincial Civil Buildings—both Original Works and repairs—are as under :—

Excise—

				Rs.
Works	...	...	...	3,493
Repairs ...	...	...	...	1,265
		Total	...	<u>4,758</u>

Forest—

Works	...	...	...	39
Repairs	...	...	...	587
Total				<u>626</u>

Registration—

Works	...	...	...	334
Repairs	...	...	...	25
Total				<u>359</u>

General Administration—

A—Heads of Provinces—

Repairs	...	...	...	84
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B—Commissioners and District Officers—

Works	...	...	...	21,698
Repairs	...	...	...	67,990
Total				<u>89,772</u>

Administration of Justice—

High Court—

Works	...	...	...	74
Repairs	...	...	...	1,702

Small Causes Courts—

Works	...	...	...	92
Repairs	...	...	...	813

District Courts—

Works	...	...	...	6,555
Repairs	...	...	...	3,954

Miscellaneous—

Works	...	...	...	601
Repairs	...	...	...	5,983
Total				<u>19,626</u>

Jail and Convict Settlements—

Central Jail—

Rs.

Works	...	...	...	2,225
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Repairs	...	...	...	2,429
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District Jails—

Works	...	...	...	5,341
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Repairs	...	...	...	9,517
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Miscellaneous—

Repairs	...	...	...	250
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Total	...	...	...	19,762
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Police—

Works	...	...	...	37,137
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Repairs	...	...	...	48,264
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Total	...	...	...	85,401
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Education other than European—

Secondary—

Works	...	...	...	201
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Repairs	...	...	...	2,582
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Primary—

Works	...	...	...	1,573
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Repairs	...	...	...	51
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Special—

Works	...	...	...	964
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Repairs	...	...	...	1,817
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Miscellaneous—

Works	...	...	...	64
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Repairs	...	...	...	1,269
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Total	...	...	...	8,521
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Medical—

Hospitals and Dispensaries—

Rs.

Works 6,939

Repairs 7,978

Medical School—

Repairs 188

Mental Hospital—

Works 2,113

Repairs 2,083

Miscellaneous—

Works 2,643

Repairs 1,974

Total 23,918

Agriculture—

Works 16,870

Repairs 2,326

Total 19,196

Public Works—

Works 664

Repairs 5,432

Total 6,096

Miscellaneous Departments—

Works 1,56,651

Repairs 373

Total 1,57,024

An expenditure of Rs. 1,56,651 was incurred on the development of the Artillery Maidan in Karachi. A report on this scheme appears separately under the head "Development Schemes".

C—ELECTRICAL WORKS.

Under this head, the expenditure incurred was as follows :—

On works ...	...	...	Rs. 26,642
On repairs ...	...	...	„ 16,550
Total ...			<u>Rs. 43,192</u>

The most important work carried out during the year under review was the illumination of certain prominent Government buildings at Karachi and District Head-quarters on the occasion of the Silver Jubilee of His Majesty, the late King George V on the 6th, 7th and 8th May 1935, at a total cost of Rs. 17,089. Thirty-four original works were also carried out at an aggregate cost of Rs. 9,553. Twenty-one special repair works were carried out during the year.

Electric installations were provided in fifteen Government buildings at Mirpurkhas by the Mirpurkhas Electric Supply Company, Ltd., at their own cost in accordance with conditions laid down in Bombay Government Resolution, Public Works Department, No. 6378/27, dated the 9th March and 20th December 1935.

ELECTRIC LICENSES.

Electric supply continued to attract the attention of the public in an increasing degree. Three new licenses were granted during the year under report for the supply of electricity to Nawabshah, Tando Allahyar and Rohri, while some additional applications were under the consideration of Government. By the end of the year under review, electricity had been installed in 7 centres in the Province and 5 others were in the process of electrification. The number of licenses actually in operation at the beginning of the year under report was 9, while at the end of the year, the number operating was 12.

ELECTRICITY DUTY.

The Electricity duty was imposed by the Bombay Finance Act of 1932, the provisions of Part II whereof have been continued in operation from year to year upto 1936, when it was amended by the Bombay Finance (Amendment) Act, 1936, and continued in operation for a further period of two years. The receipts from the tax amounted to Rs. 89,896 during 1935-36, as compared with Rs. 92,165 for the preceding year. The receipts are credited to the head "XXXV—Miscellaneous (Provincial)".

D—COMMUNICATIONS.

The expenditure under this head during the year was as follows :—

Communications (Ordinary)—

Metalled and Bridged roads—

			Rs.
Works	...	...	16
Repairs	...	...	43,761

Unmetalled roads—

Works	...	...	1,688
Repairs	...	...	95,048

Total	...	<u>1,40,513</u>
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Communications (Road Fund)—

Works	...	...	2,08,775
Repairs	...	...	36,423

Total	...	<u>2,45,198</u>
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The principal communication works carried out were—

- | | |
|---|-------------------------------|
| (1) Asphaltting Sukkur-Shikarpur Road, mile 0-6 and 6 to 20/3. | } Shikarpur Cana Division. |
| (2) Surface-dressing 2 coats with spramex over earth-filling and rubble soling mile 15/0 to 16/5 and 17/6 to 18/0 of Shikarpur-Kot Sultan Road. | |
| (3) Special repairs to Jacobabad-Shikarpur Road, miles 18/0 to 26/0 and 16/5 to 17/6. | } Begari Canals Division. |
| (4) Special repairs to Hyderabad-Mirpurkhas Road. | |
| (5) Special repairs to Chhor-Umarkot Road. | } Southern Jamrao Division. |
| (6) Special repairs to Mirpurkhas-Umerkot Road. | |
| (7) Improving bye-pass road measuring 7,000 feet in length from Inverarity Road to mile 2/4 Karachi-Malir Road. | } Thar Division. |
| (8) Asphaltting second coat over mile 2/4 to 4/6 of Karachi-Malir Road. | |
| | } Karachi Buildings Division. |
| | |

(9) Improvements to Karachi-Kotri road	} Karachi Build- ings Division.
(10) Special repairs to Karachi-Hub road.	
(11) Special repairs to Karachi-Sehwan road.	
(12) Improvements to Karachi-Kotri road.	} Karachi Canals Division.
(13) Diverting the road leading to Tharushah.	
(14) Improvements to Hyderabad-Hala road.	} Rohri Division.
	} Hala Division.

The following works were financed from the Petrol Tax Fund and the expenditure incurred on them during the year was as shown against each:—

	Rs.	
(1) Asphaltting Sukkur-Shikarpur road, mile 0-6 and 6 to 20/3.	1,47,203 ...	} Shikarpur Canals Division.
(2) Surface-dressing two coats with spramex over earth-filling and rubble soling, mile 15/0 to 16/5 and 17/6 to 18/0 of Shikarpur-Kot Sultan road.	26,015 ...	
(3) Improvements to Karachi-Kotri road.	21,765 ...	} Begari Canals Division.
(4) Improving bye-pass road measuring 7,000 feet in length from Inverarity Road to mile 2/4 on Karachi-Malir road.	6,163 ...	
(5) Asphaltting (second coat) over miles 2/4 to 4/6 of Karachi-Malir road.	5,957	
(6) Providing a roadway on Kotri Bridge.	—612 ...	} Karachi Build- ings Division.
(7) Repairs to Karachi-Kotri road.	17,055 ...	

	Rs.	
(8) Reconstructing Karachi-Kotri road.	831 ...	} Karachi Canals Division.
(9) Repairs to Karachi-Kotri road.	15,769 ...	
(10) Improvements to Hyderabad-Hala road.	1,454 ..	} Hala Division.
(11) Repairs to Hyderabad-Hala road.	3,599 ...	
Total ...	2,45,199	

The Special Road Engineer in Sind, who was appointed on the 16th December 1935, utilized his time in studying in general the problems involved in road development and in collecting data for preparing estimates for road experiments in Sind. The estimates amounting to Rs. 34,450 for carrying out road experiments were prepared during the year and submitted to the Government of India for sanction. The experiments were carried out during the following year.

E.—ARBORICULTURE.

Nurseries were maintained in various places and the planting, watering and protection of roadside trees continued to receive attention as usual. About 10,685 trees were planted during the year along the Provincial and Local Fund roads. This does not include the number of trees planted along the Local Fund roads in the Nawabshah District as the Board is not able to supply the information owing to the demarcation of its roads having not yet been done.

F.—PUBLIC HEALTH, WATER-SUPPLY AND DRAINAGE WORKS.

The work of Shikarpur Drainage Scheme—first stage—which was originally classified under the head "33—Public Health" and was subsequently transferred under the head "41—Civil Works—Provincial" from the year 1934-35 was in progress during the year under review. The increase of sub-soil water level in the town necessitated the opening up and relaying of certain sections of the mains and caused great trouble and hinderance in the execution of the work.

G.—MISCELLANEOUS WORKS.

The work of raising and strengthening the Protective Bund around Kotri, estimated to cost Rs. 32,950, which was started in the year 1934-35 was in progress. The expenditure incurred on this work up to end of the year 1934-35 amounted to Rs. 3,998

half of which was borne by the North-Western Railway Administration, District Local Board, Dadu and the Kotri Municipality. An allotment of Rs. 14,500 was sanctioned for the work during the year under report, but no expenditure was incurred on it owing to the question of land having not been settled.

Under this head an expenditure of Rs. 2,101 was incurred on repairs.

VI.—RAILWAYS.

The Railways situated within the Province are not administered by the Provincial Government but are under the general control of the Railway Board.

2. The Railways, on the whole, continued to work under loss, although there was marked improvement over the last year's position. The loss during the year amounted to Rs. 399 lakhs as compared with the loss of Rs. 506 lakhs during the previous year 1934-35.

3. During the year, a loop line from Jhudo to Pithoro, a distance of about 64·11 miles, was opened for all traffic on the 1st June 1935.

4. Surveys of the following lines were completed or were in progress :—

(i) Sind Right Bank Feeders Railway (from Larkana to Jacobabad).

(ii) Khadro-Nawabshah Railway.

(iii) Pithoro-Tando Mithakhan Railway.

5. The total length of the Railways in the Province open for traffic during the year under review was 1235·22 miles made up as shown below :—

	Broad Gauge.	Meter Gauge.	Narrow Gauge.	Total.
North-Western Railway ...	817·52	...	129·68	947·20
Jodhpur Railway ...	...	288·02	...	288·02
	817·52	288·02	129·68	1235·22

VII.—DEVELOPMENT SCHEMES.

Development of the Artillery Maidan at Karachi.

The Artillery Maidan Estate, Karachi, was originally in charge of the Military Department. It was transferred to the Civil Department in the year 1922-23 for which a sum of Rs. 31 lakhs was contributed to the Military Department.

The area of the Artillery Maidan Estate transferred to the Civil Department measures 180 acres. The object of acquiring this land was to provide sites for the Judicial Commissioner's Court and other Government offices and also to offer suitable building sites for sale to the public in order to relieve congestion in certain areas of the city. The lay-out plan of the whole area was accordingly prepared by the Consulting Surveyor to Government and approved by the Karachi Estate Board. Of the total area of 180 acres, land measuring 9 acres to the North of the Frere Road was transferred to the Karachi Municipal Corporation in December 1928 in settlement of the dispute regarding the portion of the Maidan on the south-west which they claimed as belonging to them. The remaining area of 171 acres is distributed as shown below :—

(1) Area occupied by the new Judicial Commissioner's Court compound including the site to its North, South and East reserved for Government Offices.	37'0 acres.
(2) Area reserved for Government Offices excluding the central portion mentioned above.	10'4 „
(3) Area coming under roads, Storm Water Drains, Parks, etc.	53'0 „
(4) Area available for sale of building plots	70'6 „
Total ...	<u>171'0 acres</u>

Of the total area of plots available for sale to the public (3,41,624 sq. yards = 70'6 acres) an area of 54,147 sq. yards has been sold upto 31st March 1936 at the value of Rs. 11,89,367 which on an average works out to Rs. 22 per sq. yard. It is hoped to dispose of the remaining 2,87,477 sq. yards at an average rate of Rs. 20 per sq. yard during the next 16 years. The Karachi Estate Board Rules provide facilities for easy payments, by allowing purchasers to remit 50 per cent. of the purchase value in cash and to pay interest on the remaining half at 6 per cent. per annum.

The amount realized from the sale of plots upto the 31st March 1936 is Rs. 6,05,900 and interest at the rate of 6 per cent. on the balance is being recovered annually. In the financial aspect the realization from the unsold land is calculated on the same basis.

The general financial position of the scheme is shown in the accompanying statement *. It has been assumed that all the saleable land for building plots will be disposed of in the next 16 years time. All the figures of expenditure and receipts have therefore been worked out upto the period ending 1951-52. The total expenditure on the scheme upto 1951-52 is expected to be Rs. 87 lakhs and the total receipts in that period will be about Rs. 68½ lakhs excluding the cost of land reserved for Government Offices. Adding to this the interest charges at Rs. 2,06,000 per annum on the balance of the value of saleable land capitalised at 6 per cent. per annum *viz.*, Rs. 34,33,333 (or say Rs. 34 lakhs), the net profit on the scheme would be about Rs. 15 lakhs. But if the cost of the land valued at Rs. 46 lakhs reserved for Government Offices is also taken into account, the profit would be increased to Rs. 61 lakhs. Furthermore, after the year 1951-52, a sum of Rs. 52,000 would still be realised every year as ground rent on the land sold. Deducting from this the expenditure of Rs. 6,000 per annum required on establishment, etc., for recovery of ground rent, the net realization would be about Rs. 46,000 per annum.

VIII.—TECHNICAL PAPERS.

No technical paper was issued by the Public Works Department in Sind during the year.

* Page 46 post.

Statement showing financial aspect of the scheme for the development of Artillery Maidan Estate, Karachi,
from its inception to 1951-52 when it is assumed the saleable land for building plots
will have been disposed of.

Serial No.	Probable expenditure upto 1951-52.				Probable receipts upto 1951-52.			
	Particulars.	Amount spent up to 31st March 1938.	Amount required to complete the Project.	Total probable expenditure.	Particulars.	Amount realised upto 31st March 1938.	Amount still to be realised.	Total probable receipts.
1	2	3	4	5	6	7	8	9
		Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
1	Contribution paid to Military Department and amount paid for acquisition of properties. ...	31,14,700	7,000	31,21,700	(1) Sale of building plots (part amount as actually received) ...	6,05,900	30,79,600	36,85,500
2	Survey charges etc, ...	1,38,300	...	1,38,300	(2) Interest on balance of (1) above ...	22,900	18,74,100	18,97,000
3	Construction of roads, bridges etc., water-supply and drainage ...	7,69,200	3,80,000	11,49,200	(3) Sale of building material ...	52,800	10,100	62,900
4	Miscellaneous expenditure such as contingencies, etc. ...	3,400	10,000	13,400	(4) Ground rent on building plots already sold and to be sold ...	18,300	4,88,300	5,01,600
5	Departmental charges on item 3 above ...	1,65,200	76,000	2,41,200	(5) Rent of buildings and plots ...	1,10,100	3,14,200	4,24,300
6	Establishment including pensionary charges ...	32,200	80,000	1,12,200	(6) Ground rent of land occupied by Government buildings ...	2,49,400	35,200	2,84,600
7	2 per cent. charges on the actual expenditure incurred and revenue realised ...	41,300	24,700	66,000	Total ...	10,54,400	58,01,500	68,55,900
8	Interest charges ...	28,36,600	15,00,000	38,36,600	(7) Cost of land reserved for Judicial Commissioner's Court and other Government offices. Area 229,500 square yards at Rs. 20 per square yard ...	...	45,90,000	45,90,000
	Total ...	66,00,900	20,77,700	86,78,500	Total ...	10,54,400	1,03,91,500	1,14,46,900
	Say ...			87,00,900	Say ...			1,14,00,000

∴ Net profit ... Rs. 27,00,000
Interest charges of Rs. 2,06,000 per annum in 1951-52 and after on balance of price of saleable land capitalised at 6 per cent. ,, 34,33,333
Total ... Rs. 61,33,333 say 61,00,000

Besides an anticipated profit of 61 lakhs, ground rent at 2½ annas per square yard on land sold will be realised which will amount to about Rs. 52,000 per annum after the year 1951-52.

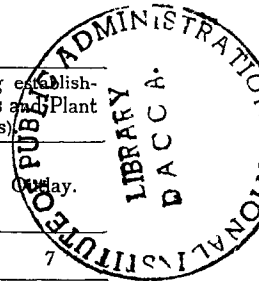
Deducting Rs. 8,000 per annum as expenditure required for establishment etc., for recovery of ground rent, the amount of Rs. 46,000 will be the net gain to Government per annum from ground rent of land alone.

APPENDICES I TO VII.

APPENDIX I.

Statement showing the expenditure on Civil and Military works during the year 1935-36.

Service head.	Original works.		Repairs.		Total (including establishment and Tools and Plant charges)	
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
I	2	3	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
50—Military works.	...	...	...	...	...	...
41—Civil Works—Central.						
Buildings ... { Non-Voted ...	1,60	118	26,553	6,540	28,413	6,658
Voted ...	85,109	1,371	1,91,500	20,153	2,76,609	21,524
Miscellaneous ... Voted ...	...	...	6,000	6,023	6,000	6,023
Establishment ... { Voted ...	...	...	...	...	67,830	7,021
Non-Voted ...	...	...	...	...	6,960	1,628
Tools and Plant ... { Voted ...	...	...	...	...	9,391	226
Non-Voted ...	...	...	...	...	...	...
Grants-in-aid ... Non-Voted ...	...	...	...	...	3,147	...
Deduct English cost of stores and establishment ...	...	...	...	...	...	...
Loss or gain by exchange ...	...	...	...	...	...	...
Total, 41 Civil Works—Central ...	86,969	1,489	2,24,053	32,716	3,98,350	43,080



41—Civil Works—Provincial

Buildings	...	...	..	{ Reserved Transferred
Communications (ordinary)	...	...	...	
Communications (Road Fund)	...	...	...	
Miscellaneous	...	...	...	
Establishment—Reserved	...	...	...	Non-Voted
				Voted
Establishment—Transferred	...	...	...	Non-Voted
				Voted
Tools and Plant—Reserved	...	...	...	
Tools and Plant—Transferred	...	...	...	
Grant-in-aid	...	...	...	
Suspense	...	...	...	
Deduct English cost of Stores and Establishment—				
Stores	...	...	...	Transferred
Establishment	...	...	...	Transferred
				Non-Voted
				Voted
Loss or gain by Exchange Stores and Establishment—				
Stores	...	...	...	
Establishment	...	...	...	{ Non-Voted Voted
Total Expenditure in India				

49,000	...	1,95,000	84	2,44,000	84
5,12,214	1,09,545	40,63,127	1,68,850	61,26,120	2,78,395
	1,704		1,38,809		1,40,513
15,36,107	2,08,775		36,423		3,45,198
14,672	...		2,101		2,101
...	...		...	...	...
...	...		...	...	...
...	...		...	₹3,57,704	35,633
...	...		...	49,97,168	1,28,980
...	...		...	...	...
...	...		...	2,53,077	5,310
...	...		...	9,87,711	2,34,601
...	...		...	6,485	31,956
...	...		...	—8,000	—3,815
...	...		...	—2,38,800	...
...	...		...	—15,200	...
...	...		...	...	—20
...	...		...	...	...
...	...		...	...	...
21,11,993	3,20,024	42,58,127	3,46,267	1,37,10,265	10,98,936

APPENDIX I.—*concl'd.*

Service head.	Original works.		Repairs.		Total (including establishment, Tools and Plant charges).	
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
1	2	3	4	5	6	7
41—Civil Works—Provincial.—						
Expenditure in England—						
Stores ... Voted ...	...	...	...	...	4,120	3,835
Establishment ... { Non-Voted ...	...	...	...	...	...	...
... { Voted ...	...	...	...	...	...	...
Total Expenditure in England ...	...	...	...	...	4,120	3,835
Total 41—Civil Works—Provincial ...	21,11,993	3,20,024	42,58,127	3,46,267	1,37,14,385	11,02,771
60—Civil Works—						
Buildings ...	1,59,600	1,56,577	...	...	1,59,600	1,56,577
Communications ...	2,400	...	...	...	2,400	...

Miscellaneous ...	...	..	..	...	...	...	...	...	...	...	
Establishment ...	...	...	{	Voted	...	...	...	...	259	30,033	
				Non-Voted	...	...	...	...	...	6,934	
Tools and Plant	...	...	...	...	...	...	...	...	...	1,037	
Total 60—Civil Works					...	1,62,000	1,56,577	...	...	1,62,259	1,94,581
<i>Deposit contributions—</i>											
District Local Fund	...	..	...	...	...	...	...	...	...	...	341
Other works	...	..	...	...	...	...	...	...	...	...	17,585
GRAND TOTAL					...	23,60,962	4,78,090	44,82,180	3,78,983	1,42,74,994	13,58,358

NOTE.—The figures of grant are for the whole of the Bombay Presidency including Sind, as separate figures for Sind are not available.

The figures of outlay are exclusive of the expenditure incurred by the Electrical Engineer to the Government of Bombay on the Electrical Works in Sind

APPENDIX II.

Statement of roads not within Municipal limits giving lengths of metalled and unmetalled roads maintained by the Public Works Department and Local Authorities during the year 1935-36.

Name of Circle.	Name of Division.	Length of metalled roads maintained by the P.W.D.	Length of unmetalled roads maintained by the P.W.D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total length of metalled roads.	Total length of unmetalled roads.	Remarks.	
								Metalled roads maintained by the P.W.D. in Municipal limits.	Unmetalled roads maintained by the P.W.D. in Municipal limits.
1	2	3	4	5	6	7	8	9	10
		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Western Sind Circle.	Rice Canals ...	7.81	9.0	1.0	(a) 526.5	8.81	535.5	...	...
	Northern Dadu...	...	7.6	...	190.0	...	197.6	...	...
	Southern Dadu ...	(b) 5.0	...	4.0	665.0	9.0	665.0	...	...
	Warah ...	...	...	...	225.5	...	225.5	...	...
	Manchar Drainage ...	...	...	...	205.0	...	205.0	...	...
	Total, Western Sind Circle...	12.81	16.6	5.0	1812.0	17.81	1828.6	...	...
Northern Sind Circle	Shikarpur Canals ...	20.38	...	(c) 3.5	(d) 869.4	23.88	869.40	...	...
	Barrage ..	(d/1) 2.47	...	7.84	123.14	10.31	123.14	...	...
	Begari Canals ...	8	22.5	...	1139.75	8.0	1162.25	...	...
	Khirtar ...	...	...	...	34.0	...	34.0	...	...
	North Western Canal ...	...	...	...	(e) 218.13	...	218.13	...	...
	Total, Northern Sind Circle...	30.85	22.5	11.34	2384.42	42.19	2406.92	...	...
Rohri Canal Circle...	Rohri ...	...	(f) 38.85	(g) 0.38	(g) 280.62	0.38	319.47	...	...
	Nasrat ...	1.93	1.96	(h) 2.96	(h) 327.88	4.89	329.84	...	...
	Dad ...	(i) 2.61	(i) 70.26	...	312.0	2.61	382.26	...	...
	Hala ...	(j) 4.1	(j) 58.1	4.8	351.3	8.9	412.4	...	...
	Total, Rohri Canal Circle.	8.64	169.17	8.14	1274.80	16.78...	1443.97	..	...

Eastern Sind Circle...	Thar...	...	(k) 48.0	(k) 3.5	(l) 2165.0	3.5	2213.0	...	...
	Mithrao	...	(k) ...	(k) 3.0	(l) 486.0	3.0	486.0	...	...
	Southern Jamrao	...	15.12	(m) 19.5	(m) 361.5	19.5	376.62	...	...
	Northern Jamrao	...	...	14.5	(m) 227.47	14.5	227.47	...	...
	Total, Eastern Sind Circle...	...	63.12	40.5	3239.97	40.5	3303.09	...	...
Southern Sind Circle	Karachi Buildings	...	(n) 38.81	(n) 130.94	(o) 9.38	48.19	633.81	(n) 10.5	(n) 1.5
	Karachi Canals...	...	19.25	52.81	(p) 1.0	20.25	898.19	...	...
	Hyderabad	...	(q) 5.5	(q) 24.0	5.10	10.60	308.20	...	...
	Nasir	...	...	14.80	5.50	5.50	153.70	...	...
	Fuleli Canals	...	3.50	56.44	4.63	.12	539.56	...	...
	Total, Southern Sind Circle...	...	67.06	278.99	25.61	92.67	2533.46	10.5	1.5

- (a) Increase of 3 miles as compared with the figure in the last year's report is due to construction of a new road by District Local Board, Dadu.
- (b) Includes 4 miles murum surface.
- (c) The decrease of 7.88 miles is due to corrections reported during the year. This length of roads in the Rohri Taluka is in the Barrage Division and is included therein.
- (d) The decrease of 126.86 miles is partly due to certain Local Board roads having been abandoned and partly to some corrections in the figures of the last year.
- (d/1) The addition of 2.47 miles is due to this length having been provincialized, *vide* Government Resolution (P.W.D.), No. 8034/27, dated 4th July 1934.
- (e) The increase of 16.63 miles is due to the construction of new roads.
- (f) The decrease of 1.62 miles is due to the difference found in length on actual measurement.
- (g) The increase of 0.38 mile in the length of metalled roads and the corresponding decrease in the length of unmetalled roads is due to a portion of the unmetalled roads having been metalled during the year.
- (h) The increase of 0.4 mile in the length of metalled roads and 12.44 miles in the length of unmetalled roads is due to the revised figures reported by the District Local Board for this year.
- (i) The decrease of 1.24 miles in the metalled roads and increase of 0.26 mile in the unmetalled roads is due to differences in actual lengths found after actual verification.
- (j) The decrease of 2.4 miles of metalled and 8.6 miles of unmetalled roads is due to the transfer of roads to the Hyderabad Division.
- (k) The differences as compared with the last year's figures are due to re-adjustment of boundaries of the two Divisions.
- (l) Mileages reported by the District Local Board on re-adjustment of boundaries of Thar and Mithrao Divisions.
- (m) Mileages as reported this year by the District Local Boards.
- (n) The differences in lengths are due to portions of unmetalled roads having been metalled during the year.
- (o) These are correct mileages for the year as reported by the District Local Board, Karachi.
- (p) The decrease is due to incorrect figures having been reported by the District Local Board last year.
- (q) The increase of about 11.0 miles in the length of Public Works Department roads is due to a portion of the Hyderabad-Hala Road having been transferred from the Hala Division.

APPENDIX

Mileage of extra municipal roads of various classes and of

Circle and Division.	Cement concrete or macadam.			Premix Bitumen, Asphalt, Tar or Pitch			Bitumen, Asphalt, Tar or Pitch grouted macadam.			Surface treated with tar, pitch Asphalt or Bitumen.			Water bound macadam, stone metal only.		
	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.
1	2			3			4			5			6		
WESTERN SIND CIRCLE.															
Warah Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rice Canals Division.	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Northern Dadu Division.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Southern Dadu Division.	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Manchar Drainage Division.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total, W. S. C. ...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
EASTERN SIND CIRCLE.															
Northern Jamrao Division.	...	...	...	...	...	...	...	...	...	...	...	...	...	7	7
Southern Jamrao Division.	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
Mithrao Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thar Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total, E. S. C. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	9
ROHRI CANAL CIRCLE.															
Rohri Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nasrat Division ...	...	...	...	...	...	...	...	...	...	...	...	...	2	3	5
Dad Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hala Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	5
Total, R. C. C. ...	...	...	...	...	...	...	...	...	...	...	...	...	2	8	10
SOUTHERN SIND CIRCLE.															
Karachi Buildings Division.	...	...	...	1	...	1	...	...	...	25	4	29	23	5	28
Karachi Canals Division.	...	...	...	...	...	...	...	...	...	...	...	...	18	...	18
Hyderabad Division.	...	...	...	...	...	...	...	...	...	2	...	2	3	5	8
Nasir Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fuleli Canals Division.	...	...	...	...	...	...	...	...	...	...	...	...	4	5	9
Total, S. S. C. ...	...	...	...	1	...	1	...	...	...	27	4	31	48	15	63
NORTHERN SIND CIRCLE.															
Begari Canals Division.	...	...	...	1	...	1	...	...	...	...	...	...	...	9	9
North Western Canal Division.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shikarpur Canals Division.	...	...	...	19	...	19	...	...	...	2	...	2	...	11	11
Barrage Division ...	1	...	1	...	...	...	1	...	1	...	...	...	1	8	9
Khirtar Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total, N. S. C. ...	1	...	1	20	...	20	1	...	1	2	...	2	1	28	29
GRAND TOTAL ...	1	...	1	21	...	21	1	...	1	29	4	33	52	61	113

III.

motorable earth roads as on the 31st March 1936.

Water bound macadam, Kunkar, laterite or brick metal.			Other low type surface (moorum, gravel, sand clay).			Fair weather motorable earth roads.			Other motorable roads which cannot be classified under previous headings.			Total.		
P.W.D.	Local.	Total.	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.	P.W.D.	Local.	Total.
7			8			9			10			11		
...	...	...	...	...	...	...	80	80	...	...	...	...	80	80
...	...	...	...	...	...	9	...	9	8	308	316	17	309	326
...	...	...	...	...	...	8	51	59	...	...	...	8	51	59
...	...	...	4	367	371	...	306	306	...	...	...	5	673	678
...	...	...	...	...	...	...	205	205	...	...	...	...	205	205
...	...	...	4	367	371	17	642	659	8	308	316	30	1,318	1,348
...	...	...	...	...	...	...	237	237	...	9	9	...	253	253
...	...	...	...	...	...	...	22	22	15	327	342	15	351	366
...	2	2	...	...	...	...	3	3	...	486	486	...	491	491
...	...	...	...	...	...	...	4	4	48	2,165	2,213	48	2,169	2,217
...	2	2	...	...	...	...	266	266	63	2,987	3,050	63	3,264	3,327
...	...	...	...	...	...	39	214	253	...	...	...	39	214	253
...	...	...	...	...	...	2	31	33	...	...	...	4	34	38
...	...	...	...	...	...	70	49	119	3	...	3	73	49	122
...	...	...	...	...	...	58	196	254	4	...	4	62	201	263
...	...	...	...	...	...	169	490	659	7	...	7	178	498	676
...	...	...	44	85	129	89	268	357	...	150	150	182	512	694
1	...	1	15	110	125	38	611	649	...	125	125	72	846	918
...	...	...	...	...	...	9	...	9	15	176	191	29	181	210
...	6	6	...	...	...	15	139	154	...	...	...	15	145	160
...	...	...	...	...	...	...	...	...	56	307	363	60	312	372
1	6	7	59	195	254	151	1,018	1,169	71	758	829	358	1,996	2,354
...	4	4	...	...	...	21	1,098	1,119	8	...	8	30	1,111	1,141
...	...	...	...	...	...	...	118	118	...	...	...	...	118	118
...	...	...	...	...	...	...	275	275	...	...	...	21	286	307
...	...	...	...	...	...	...	123	123	3	...	3	6	131	137
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	4	4	...	...	...	21	1,614	1,635	11	...	11	57	1,646	1,703
1	12	13	63	562	625	358	4,030	4,388	160	4,053	4,213	686	8,722	9,408

APPENDIX

Statement showing the expenditure on Provincial

	1921-22.		1922-23.		1923-24.	
	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.
1	2	3	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(i) Expenditure on buildings— Original works	12,90,750	...	2,77,527	7,11,895	1,70,426	5,52,140
(ii) Expenditure on buildings— Maintenance	1,64,210	...	1,51,421	...	1,78,426	...
(iii) Expenditure on metalled Provincial roads— Original works	42,695	...	98,466	...	73,471	...
(iv) Expenditure on unmetalled Provincial roads— Original works	...	...	...	...	170	...
(v) Expenditure on metalled Provincial roads— Maintenance	32,825	...	17,889	...	16,291	...
(vi) Expenditure on unmetalled Provincial roads— Maintenance	95,939	...	1,27,690	...	1,36,482	...
(vii) Expenditure from Road Fund— Original works	...	...	...	...	...	...
(viii) Expenditure from Road Fund— Maintenance	...	...	...	...	...	...
Total ...	16,26,419	...	6,72,993	7,11,895	5,75,266	5,52,140

	1928-29.		1929-30		1930-31.	
	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.
1	16	17	18	19	20	21
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(i) Expenditure on buildings— Original works	2,44,881	3,69,562	3,44,517	1,40,963	2,16,783	1,22,058
(ii) Expenditure on buildings— Maintenance	2,07,847	...	2,88,022	...	2,47,047	...
(iii) Expenditure on metalled Provincial roads— Original works	98,454	1,75,326	7,919	94,001	—2	21,693
(iv) Expenditure on unmetalled Provincial roads— Original works	9,172	...	1,400	...	8,923	...
(v) Expenditure on metalled Provincial roads— Maintenance	65,883	...	96,560	...	55,688	...
(vi) Expenditure on unmetalled Provincial roads— Maintenance	1,26,654	...	1,57,922	...	1,42,386	...
(vii) Expenditure from Road Fund— Original works	...	...	...	...	...	...
(viii) Expenditure from Road Fund— Maintenance	...	...	...	...	...	...
Total ...	7,52,891	5,44,888	8,96,340	2,34,964	6,70,775	1,43,751

IV.

Buildings and Roads from 1921-22 to 1935-36.

1924-25.		1925-26.		1926-27.		1927-28.	
41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.
8	9	10	11	12	13	14	15
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
3,18,186	8,82,055	4,53,035	13,10,549	7,27,916	7,15,071	3,47,891	3,70,005
1,91,990	...	1,74,310	...	2,06,962	...	2,46,822	...
26,685	1,39,015	—102	30,035	11,759	99,541	81,725	1,74,995
...	...	13,043	20,788	661	...	12,313	...
13,996	...	24,444	..	78,629	...	57,076	...
1,30,644	...	1,31,892	...	89,724	...	1,52,444	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
6,81,501	10,21,070	7,96,622	13,61,372	11,15,651	8,14,612	8,98,271	5,45,000

1931-32.		1932-33.		1933-34.		1934-35.		1935-36.	
41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60-C. W.	41-C. W. Provincial.	60 C. W.
22	23	24	25	26	27	28	29	30	31
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
3,47,375	5,20,146	1,03,412	5,376	76,846	32,580	1,61,222	1,44,576	1,09,545	1,56,577
1,61,565	...	1,54,454	...	2,31,756	...	1,92,913	...	1,68,934	...
...	4,716	...	...	160	...	113	...	16	...
...	...	...	...	...	...	...	...	1,688	...
61,862	...	63,413	...	71,446	...	63,594	...	43,761	...
82,891	...	86,008	...	90,895	...	84,334	...	95,048	...
4,82,195	...	6,51,927	...	3,38,345	...	4,13,778	...	2,08,775	...
...	...	500	...	1,544	...	3,713	...	36,423	...
11,35,868	5,24,862	10,59,714	5,376	8,10,992	32,580	9,19,667	1,44,576	6,64,190	1,56,577

APPENDIX V.

*Statement showing the expenditure on District Local Board Roads (original works and repairs)
from 1921-22 to 1935-36.*

	1921-22.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(1) Expenditure on metalled District Local Board roads for original works.	16,103	5,039	14,611	10,279	73,201	1,33,542	77,391	1,54,304	76,837	49,194	45,765	38,162	39,368	31,857	46,594
(2) Expenditure on un- metalled District Local Board roads for original works.	98,877	42,321	49,660	40,897	78,637	92,034	85,337	40,952	21,352	39,817	18,636	23,483	23,098	51,093	61,212
(3) Expenditure on metalled District Local Board roads for maintenance.	7,455	4,924	2,901	8,951	3,295	2,073	5,405	12,652	36,856	50,441	11,757	9,869	10,968	22,794	28,734
(4) Expenditure on un- metalled District Local Board roads for maintenance.	2,85,820	2,41,091	2,89,435	2,64,811	4,00,788	3,88,193	4,41,126	4,57,168	4,34,781	4,44,139	3,58,065	3,06,622	3,57,848	4,08,282	4,38,695
Total ...	4,08,255	2,93,375	3,56,607	3,24,938	5,55,921	6,15,842	6,09,259	6,65,076	5,69,826	5,83,591	4,34,223	3,78,136	4,31,282	5,14,026	5,75,235

NOTE.—A sum of Rs. 2,084 on original works and Rs. 10,079 on repairs of bridges on roads both metalled and unmetalled was incurred during the year 1935-36 by District Local Board, Hyderabad, which is not included in the above figures.

APPENDIX VI.

Statement showing expenditure on establishment in the Roads and Buildings and the Irrigation Branches of the P. W. D. from the year 1932-33 to 1935-36 and the percentage on the total outlay on works and repairs during the period in both the Branches.

Year.	Expenditure on Establishment in the Roads and Buildings Branch.							Expenditure on Establishment in the Irrigation Branch.
	41—Civil Works—Provincial.	60—Civil Works.	41—Civil Works—Central.	50—Military Works.	Deposit Works.	Total establishment charges.	Percentage on the total outlay on works and repairs in the Buildings and Roads Branch.	55—Construction of Irrigation, Navigation, Embankment and Drainage Works.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1932-33 ...	1,64,621	1,058	3,776	..	400	1,69,855	15*49	25,47,328
1933-34 ...	1,59,753	8,447	6,863	...	4,549	1,77,612	19*63	15,48,676
1934-35 ...	1,88,090	28,566	6,379	...	9,421	2,32,456	20*38	13,64,856
1935-36 ...	*1,75,939	36,967	8,045	...	4,081	2,25,032	25*15	10,31,419

Year.	Expenditure on Establishment in the Irrigation Branch—contd.					Total Establishment charges in the Buildings and Roads and Irrigation Branches	Percentage on the total outlay on works and repairs in the Buildings and Roads and Irrigation Branches.
	XIII—Works for which capital accounts are kept.	15—Other Revenue Expenditure financed from Ordinary Revenues.	Deposit Works	Total Establishment charges.	Percentage on the total outlay on works and repairs in the Irrigation Branch.		
1	10	11	12	13	14	15	16
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1932-33 ...	14,36,449	2,11,597	46	41,95,420	22*80	43,65,275	22*39
1933-34 ...	21,47,569	3,36,202	48,912	40,81,359	34*23	42,58,971	33*20
1934-35 ...	22,67,418	2,68,542	100	39,00,916	36*59	41,33,372	35*02
1935-36 ...	26,30,959	2,28,109	877	38,91,364	46*18	41,16,396	44*16

* Includes establishment charges on the expenditure incurred on Electrical Works in Sind by the Electrical Engineer to the Government of Bombay.

NOTE.—The percentage of the establishment charges on the cost of works and repairs in the Irrigation Branch (column 14) is generally higher than that in the Roads and Buildings Branch (column 8). The reason is largely that the establishment charges in the Irrigation Branch include the cost of Special Revenue Establishment employed entirely on "revenue management" work which has no connection with the execution of works and repairs, and that these charges also include cost of part of the time of Irrigation Establishment spent on revenue management including the *control and distribution of water*, which is debited in the accounts to "revenue management" and not to execution of works and repairs. If these establishment charges debited in the accounts to "revenue management" are deducted from the total cost of establishment in the Irrigation Branch, the percentage on the cost of works and repairs will not be so divergent. The increase in the rate per cent. is mainly due to decrease in outlay on "works" and "repairs". Establishment charges cannot be reduced in the same ratio in which expenditure on works is reduced. A mere overall percentage on expenditure on works is inaccurate.

APPENDIX VII.

List of members of the Karachi Estate Board, responsible for the management of the affairs of the development of the Artillery Maidan in Karachi, for the year 1935-36 :—

- | | | | |
|--|-----|-----|------------|
| (1) The Commissioner in Sind | ... | ... | President. |
| (2) The Chief Engineer in Sind | ... | ... | Member. |
| (3) The Collector of Karachi | ... | ... | Do. |
| (4) The Superintending Engineer, Southern Sind Circle | ... | ... | Do. |
| (5) The Consulting Surveyor to Government | ... | ... | Do. |
| (6) The Executive Engineer, Karachi Buildings Division | ... | ... | Do. |
| (7) The City Deputy Collector, Karachi | ... | ... | Secretary. |
| (8) R. B. Shivratn Mohatta | ... | ... | Member |
| (9) Mr. Jamshed Nusserwanji | ... | ... | Do. |

STATEMENTS I-A to IV-E.
1935-36.

STATEMENT

Statement of canals

35.—Construction of Irrigation, Navigation, Embankment					
(1) Pro					
Lloyd Barrage Canals.					
1	Rohri Canal System.	• Eastern Nara System.	North-Western Canal System.	Rice Canal System.	Dadu Canal System.
2	3	4	5	6	
Source of water	←	Barrage	on the River	Indus	→
Minimum discharge of water C. ft. per second...	4,100	6,535	...	407	195
Maximum discharge of water C. ft. per second...	10,240	12,560	7,406	10,099	3,069
Average annual rainfall ...Inches...	5'10	7'26	2'49	2'97	2'44
Gross area commanded ... Acres...	2,698,144	7,025,012	994,726	547,795	577,433
Culturable area commanded	2,481,060	6,483,219	927,484	504,269	499,103
Area irrigable by complete project.	2,088,357	1,758,402	720,220	406,358	385,980
Area irrigable at present	1,873,563	1,360,801	648,012	406,358	378,380
Area occupied	1,842,299	5,060,611	654,517	373,936	334,182
SANCTIONED ESTIMATE.					
Direct charges Rs. ...	6,25,14,000	4,01,88,000	2,41,16,000	3,00,15,000	1,88,84,000
Indirect charges	54,58,712	1,92,76,325	14,84,574	6,78,303	23,61,922
Total, Estimate Rs. ...	6,79,72,712	5,94,64,325	2,56,00,574	3,06,93,303	2,12,45,922
EXPENDITURE TO END OF 1935-36.					
Direct charges Rs. ...	}	←	28,33,	52,877	
Indirect charges			34,	11,176	
Interest			6,87,	83,777	
Total, Expenditure Rs. ...			35,55,	47,830	
WORKS AS NOW SANCTIONED.					
Main Canals irrigation ... Miles...	207'70	505'98	105'60	81'80	131'60
Branch canals	286'78	176'84	102'50	137'75	62'5
Distributaries and minors	1987'70	1227'79	716'00	306'80	395'4
Escapes	41'68	...	...	...	28'6
Total ... Miles...	2523'86	1910'61	924'10	526'35	618'10
Navigable canals	...	...	...	...	...
WORKS COMPLETED AT THE END OF 1935-36.					
Main Canals irrigation ... Miles...	207'70	505'98	105'60	81'80	131'60
Branch canals	286'78	176'84	102'50	137'75	62'5
Distributaries and minors	1987'70	1227'79	716'0	306'80	395'4
Escapes	41'68	...	...	...	28'6
Total ... Miles...	2523'86	1910'61	924'10	526'35	618'10
Navigable canals	...	...	...	...	...

1-A.
in Sind for 1935-36.

and Drainage Works not charged to Revenue.

ductive.

Manchar Drainage System.	Inundation Canals.							
	Desert Canal.	Unharwah.	Begari Canal.	Canals in Rohri.	Sind Canal.	Rajib, Chitti and Garang Canals.	Sukkur Canal.	Indus Canals, Right Bank.
7	8	9	10	11	12	13	14	15
					River Indus			
...	...	...	...	...	...	...	...	...
4,100	5,210	2,415	8,004	4,174	3,095	896	...	1,265
3'78	3'3	3'3	3'3	2'48	2'48	2'48	2'48	6'14
73,264	448,955	246,970	675,594	211,063	170,710	45,674	6,807	194,000
37,218	448,955	203,244	580,223	144,115	143,295	29,940	6,559	150,000
20,700	227,294	114,056	370,155	118,935	95,928	29,800	6,089	150,000
20,700	227,294	114,056	370,155	118,935	95,928	29,800	6,089	150,000
44,947	447,299	169,209	390,406	81,331	113,344	25,919	4,802	56,589
78,31,000	27,55,056	8,68,380	26,22,453	1,73,010	8,96,968	2,86,824	...	90,973
...								
78,31,000	27,55,056	8,68,380	26,22,453	1,73,010	8,96,968	2,86,824	...	90,973
	26,74,305	7,89,175	25,26,185	1,95,523	8,79,065	2,82,206	...	89,122
	80,751	21,288	80,365	3,843	10,861	4,618	...	1,851
	42,82,322	11,77,302	44,90,487	1,24,194	4,28,998	1,38,518	...	55,063
	70,37,378	19,87,765	76,97,037	3,23,560	13,18,924	4,25,342	...	1,46,036
20	79	31	74	128	38	23	7	55
...	168	36	61	4	82	...	...	6
..	87	53	81	7	6	...	...	...
...	...	...	...	...	...	...	...	...
20	334	120	216	139	126	23	7	61
...	10	...	6	...	...	...	...	9
20	79	31	74	128	38	23	7	55
...	168	36	61	4	82	...	...	6
...	87	53	81	7	6	...	...	...
...	...	...	...	...	...	...	...	...
20	334	120	216	139	126	23	7	61
...	10	...	6	...	...	...	...	9

STATEMENT

Statement of Canals

55.—Construction of Irrigation, Navigation, Embankment				
(1) Pro				
Inundation				
1	Indus Canals, Left Bank, 16	Pinyari Canal, 17	Baghar Canal. 18	Sattah Canal. 19
Source of water	←		River Indus.	
Minimum discharge of water C. ft. per second.	...	...	...	...
Maximum discharge of water C. ft. per second.	4,982	4,831	8,750	1,700
Average annual rainfall ... Inches...	6'81	5'26	6'45	9'69
Gross area commanded ... Acres ...	104,224	191,600	112,057	36,971
Culturable area commanded	80,000	180,000	90,000	30,000
Area irrigable by complete project	80,000	180,000	90,000	30,000
Area irrigable at present	80,000	180,000	90,000	30,000
Area occupied	67,943	139,737	96,915	20,925
SANCTIONED ESTIMATE.				
Direct charges Rs. ...	2,67,918	12,46,655	7,63,445	1,88,156
Indirect charges " ...				
Total, Estimate Rs. ...	2,67,918	12,46,655	7,63,445	1,88,156
EXPENDITURE TO END OF 1935-36.				
Direct charges Rs. ...	2,61,894	12,12,044	7,45,054	1,81,886
Indirect charges " ...	6,024	34,611	18,391	6,270
Interest " ...	1,35,439	7,00,309	4,11,609	1,89,644
Total, Expenditure Rs. ...	4,03,357	19,46,964	11,75,054	3,77,800
WORKS AS NOW SANCTIONED.				
Main Canals irrigation ... Miles ...	109	69	93	31
Branch Canals " ...	73	317	68	5
Distributaries and Minors	...	...	...	...
Escapes " ...	...	...	...	...
Total ... Miles ...	182	386	161	36
Navigable canals " ...	36	24	93	4
WORKS COMPLETED AT THE END OF 1935-36.				
Main Canals irrigation ... Miles ...	109	69	93	31
Branch canals " ...	73	317	68	5
Distributaries and Minors	...	...	...	...
Escapes " ...	...	...	...	...
Total ... Miles ...	182	386	161	36
Navigable canals " ...	36	24	93	4

concl'd.

and for 1935-36.

rainage Works not charged to Revenue.

(2) Un-productive.

Remarks.

uleli anal.	Other Canals (Fuleli Division.)	Mahi Wah.	Kalri Canal.	Hassanali Canal.	Remarks.
20	21	22	23	24	25
		Gudu Dhandh.	← River	Indus. →	
...	...	...	...	...	
12,100	569	3,402	1,521	1,053	
5'54	5'54	...	7'81	5'54	
1,135,767	181,698	200,251	63,707	165,622	
1,007,320	75,923	152,431	63,707	114,186	
400,000	30,000	106,873	39,413	19,000	
400,000	30,000	106,873	39,413	19,000	
522,809	50,995	162,444	38,207	40,209	
74,83,430	1,15,928	14,98,101	11,64,770	3,11,548	
74,83,430	1,15,928	14,98,101	11,64,770	3,11,548	
68,02,442	1,12,485	14,38,459	9,85,251	2,96,463	
1,49,225	3,443	59,642	10,271	15,085	
56,46,210	60,375	15,93,809	2,65,714	3,20,708	
25,97,877	1,76,303	30,91,910	12,61,236	6,32,256	
81	57'67	38	49	30'70	
331'54	...	164	59	...	
292'40	50'62	101	...	66'25	
...	...	...	...	...	
704'94	108'29	303	108	96'95	
328	10	...	...	29'27	
81	57'67	38	49	30'70	
331'54	...	164	59	...	
292'40	50'62	101	...	66'25	
...	...	...	...	...	
704'94	108'29	303	108	96'95	
328	29	...	...	10	

Statement of area irrigated by irrigation works

Canal System.	Area irrigated excluding dubari.			Net area irrigated after deducting area in which remissions were granted including dubari.	
	Kharif.	Rabi.	Total.	Kharif.	Rabi.
1	2	3	4	5	6
55—CONSTRUCTION OF IRRIGATION NAVIGATION, EMBANKMENT AND DRAINAGE WORKS—CAPITAL EXPEN- DITURE NOT CHARGED TO REVENUE.	Acres.	Acres.	Acres.	Acres.	Acres.
A.—IRRIGATION.					
(1) PRODUCTIVE.					
<i>Lloyd Barrage Canals.</i>					
Rohri Canal System	593,118	358,972	952,090	543,795	347,500
Eastern Nara System	545,465	300,545	847,010	466,779	283,431
North-Western Canal System	200,313	169,653	369,966	194,817	204,215
Rice Canal System	285,589	13,607	299,196	278,272	150,472
Dadu Canal System	98,611	106,778	205,389	93,605	116,170
Manchar Drainage System	2,377	16,980	19,357	2,261	15,180
<i>Inundation Canals.</i>					
Desert Canal	149,737	75,788	225,525	112,699	75,289
Unhar Wah	50,818	30,881	81,699	40,122	43,219
Begari Canal	158,613	51,086	209,699	146,061	113,038
Sukkur Canal	2,655	1,079	3,734	2,597	2,141
Canals in Rohri	28,711	10,448	39,159	23,226	12,048
Sind Canal	55,386	16,984	72,370	51,293	35,091
Rajib Canal	6,407	1,763	8,170	6,014	4,277
Chitti Canal	6,000	2,145	8,145	5,814	4,852
Garang Canal	1,925	844	2,769	1,880	570
Indus Canals, Right Bank	8,679	3,964	12,643	3,281	5,441
Indus Canals, Left Bank	26,367	2,572	28,939	11,714	523
Pinyari Canal	75,186	12,526	87,712	63,765	10,909
Baghar Canal	16,563	2,394	18,957	13,761	4,512
Sattah Canal	10,830	493	11,323	8,025	226
Fuleli Canal	210,248	33,870	244,118	193,935	26,894
(2) UNPRODUCTIVE.					
Mahi Wab	45,514	11,012	56,526	40,338	20,378
Kalri Canal	11,637	1,106	12,743	4,094	2,728
Hassanali Canal	16,443	616	17,059	12,746	...

I-E.

Sind during the year 1935-36.

No. of days the canal was in flow.		Average discharge in cubic feet per second.				Area irrigated per cubic foot per second.				Depth of water used on area irrigated.		Remarks.
		At head.		Utilized.		At head.		Utilized.				
Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	
8	9	10	11	12	13	14	15	16	17	18	19	
Days.		C. ft.		C. ft.		Acres.		Acres.		Feet.		Information for columns 8 to 19 cannot be supplied as Manchar is a Dhand.

* This has been arrived at after deducting the discharge at mile 76 from the discharge at the Head Regulator, as there is no outlet below 76 mile and water goes into the Sea. The duty and delta is calculated in the discharge utilized.

A. GORDON,
Chief Engineer in Sind.

STATEMENT

Statement showing incidence of working expenses on

Systems or Canals.	Average discharge of the year at canal head in cubic feet per second.	Water assessed during 1935-36.					Gross assessed revenue from all sources.
		Occupiers.	Owners.	Total direct.	Indirect.	Total direct and indirect.	
1	2	3	4	5	6	7	8
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
55.—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS (CAPITAL EXPENDITURE NOT CHARGED TO REVENUE).							
A—IRRIGATION WORKS.							
(1) PRODUCTIVE.							
Lloyd Barrage Canals.							
Rohri Canal System ...	8,988	1,22,331	...	1,22,331	1,03,02,795	1,08,83,287	1,11,18,618
Eastern Nara System ...	9,149	35,741	...	35,741			
North Western Canal System ...	2,827	3,95,436	...	3,95,436			
Rice Canal System ...	5,957	16,838	...	16,838			
Dadu Canal System ...	1,893	9,973	...	9,973			
Manchar Drainage System ...	1,574	173	...	173			
Total Lloyd Barrage Canals...	30,388	5,80,492	...	5,80,492	1,03,02,795	1,08,83,287	1,11,18,618
Inundation Canals.							
Desert Canal ...	2,744	64,362	...	64,362	2,36,408	3,00,770	3,02,277
Unher Wah ...	1,456	275	...	275	1,85,128	1,85,403	1,86,527
Begari Canal ...	3,876	19,182	...	19,182	5,10,387	5,29,569	5,43,267
Sukkur Canal ...	...	558	...	558	14,211	14,769	15,623
Canals in Rohri ...	1,550	4,784	...	4,784	92,469	97,353	1,01,738
Sind Canal ...	2,068	3,256	...	3,256	2,58,923	2,62,179	2,64,032
Rajib, Chitti and Garang ...	511	...	...	...	82,211	82,211	82,596
Indus Canals, Right Bank ...	...	194	...	194	15,945	16,139	16,734
Indus Canals, Left Bank ...	...	1	...	1	53,926	53,927	54,538
Pinyari Canal ...	2,127	1,439	...	1,439	1,51,415	1,52,834	1,54,992
Baghar Canal ...	2,800	480	...	480	20,430	20,910	22,185
Sattah Canal ...	623	32	...	32	21,878	21,910	22,062
Fuleli Canal ...	3,734	66,624	...	66,624	4,78,706	5,45,330	5,58,621
Other Canals in Fuleli Canals Division.	...	2,442	...	2,442	30,778	33,220	33,712
Total, Inundation Canals ...	21,489	1,63,629	...	1,63,629	21,52,815	23,16,444	23,58,904
Total Productive ...	51,877	7,44,121	...	7,44,121	1,24,55,610	1,31,99,731	1,34,77,522

II-E.

assessed Revenue on canals during the year 1935-36.

Working expenses, direct and indirect.	Area irrigated during the year.	Working expenses.			90 per cent. of net consolidated assessment.		Total water rate, direct and indirect.	
		Per cent. on gross revenue.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.
9	10	11	12	13	14	15	16	17
Rs	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	952,090							
	847,010							
57,15,304	369,966	51'4	2'12	188'08	4'07	333'49	4'04	358'14
	299,196							
	205,389							
	19,357							
57,15,304	2,693,008	51'4	2'12	188'08	4'07	333'49	4'04	358'14
2,03,002	225,525	67'16	'90	73'98	1'74	84'99	1'33	109'61
88,371	81,699	47'38	1'08	60'69	2'20	123'71	2'27	127'34
4,35,145	209,699	80'10	2'03	112'27	2'74	128'28	2'53	136'63
-5,677	3,734	...	...	...	4'30	...	3'96	...
1,32,503	39,159	130'24	3'38	85'49	2'32	56'23	2'48	62'74
1,34,447	72,370	50'92	1'86	65'01	3'65	120'78	3'62	126'78
24,213	19,084	29'31	1'27	47'38	4'22	156'93	4'30	160'88
23,583	12,643	140'93	1'87	...	1'08	...	1'28	...
1 05,570	28,939	193'57	3'65	...	1'78	...	1'86	...
2,49,345	87,712	150'88	2'84	117'23	1'70	68'40	1'74	71'86
46,811	18,957	211'00	2'47	16'72	1'04	6'60	1'10	7'47
10,472	11,323	47'47	'92	16'80	1'84	33'18	1'93	35'17
2,69,636	244,118	48'27	1'10	72'21	2'28	120'28	2'23	146'04
39,041	18,474	115'80	2'11	...	1'85	...	1'80	...
17,56,462	1,073,436	74'46	1'64	81'74	2'32	96'27	2'16	107'80
74,71,766	3,766,444	55'44	1'98	144'03	3'60	235'22	3'50	254'44

STATEMENT

Systems or Canals.	Average discharge of the year at canal head in cubic feet per second.	Water assessed during 1935-36.					Gross assessed revenue from all sources.
		Occupiers.	Owners.	Total direct.	Indirect.	Total, direct and indirect.	
1	2	3	4	5	6	7	8
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
55 - CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS (CAPITAL EXPENDITURE NOT CHARGED TO REVENUE) <i>concl'd.</i>							
A.—IRRIGATION WORKS— <i>concl'd.</i>							
(2) UNPRODUCTIVE.							
Mahiwah ...	1,706	2,272	...	2,272	1,31,567	1,33,839	1,36,899
Kalri Canal ...	742	207	...	207	10,756	10,963	18,981
Hassanaliwah ...	521	885	...	885	31,492	32,377	33,579
Total, Unproductive ...	2,969	3,364	...	3,364	1,73,815	1,77,179	1,89,459
Grand Total for Sind ...	54,846	7,47,485	...	7,47,485	1,26,29,425	1,33,76,910	1,36,66,981

II-E—concl'd.

Working expenses, direct and indirect.	Area irrigated during the year.	Working expenses.			90 per cent. of net consolidated assessment.		Total water rate, direct and indirect.	
		Per cent. on gross revenue.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.
9.	10	11	12	13	14	15	16	17
Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1,08,177	56,526	79.02	1.91	63.40	2.25	74.39	2.37	78.45
84,458	12,743	444.96	6.63	113.82	0.80	13.38	0.86	14.77
30,625	17,059	91.20	1.80	58.78	1.88	58.40	1.90	62.14
2,23,260	86,328	117.84	2.59	75.20	1.98	56.34	2.05	59.68
76,95,026	3,852,772	56.30	2.0	140.30	3.57	225.54	3.47	243.90

A. GORDON,
Chief Engineer in Sind.

STATEMENT III-E.

STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED
DURING THE YEAR 1935-36.

Description of crops.	Lloyd Barrage Canals.								
	Rohri Canal System.			Eastern Nara System.			North Western Canal System.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	3,972	76,452	19	90,195	28,57,508	32	120,293	17,22,466	14
Jowari ...	78,627	15,30,520	19	16,993	1,90,365	11	66,693	9,12,348	18
Bajri ...	94,511	14,70,186	16	58,505	6,92,478	12	353	4,673	13
Cotton ...	387,281	1,17,88,403	30	359,566	1,08,42,514	30	4,742	1,31,097	27
Sugar-cane ...	308	17,735	57	2,261	59,605	26	16	249	16
Other crops ...	28,419	3,80,842	13	18,645	2,17,779	11	8,216	1,02,402	12
Total ...	593,118	1,52,64,138	25	546,465	1,48,60,249	27	200,313	28,73,235	14
RABI									
Wheat ...	354,661	63,86,083	15	297,403	33,47,744	11	122,083	25,92,869	21
Barley... ..	1,660	23,435	14	841	7,019	8	232	2,343	10
Oil-seeds ...	10,157	1,62,292	16	4,291	26,237	6	39,448	4,51,010	11
Other crops ..	23,182	3,34,569	14	12,113	1,15,094	9	60,981	3,41,394	5
Total ...	389,660	59,06,379	15	314,648	34,96,094	11	222,744	33,87,616	15
Total under both heads ...	982,778	2,11,70,517	22	861,113	1,83,56,343	21	423,057	62,60,851	14

Description of crops	Lloyd Barrage Canals.—contd.								
	Rice Canal System.			Dadu Canal System.			Manchar Drainage System.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	274,664	43,24,830	16	47,645	8,33,027	18	313	2,520	8
Jowari ...	7,943	37,458	5	37,179	3,43,483	9	1,727	13,208	7
Bajri ...	280	1,126	4	592	2,412	4	105	840	8
Cotton ...	10	220	22	9,003	4,27,478	47	6	120	20
Sugar cane ...	23	380	16	28	560	20	2	30	15
Other crops ...	2,669	13,456	5	4,164	20,129	5	222	1,446	6
Total ...	285,589	43,77,470	15	98,611	16,27,089	16	2,377	18,164	7
RABI.									
Wheat ...	21,160	1,81,723	9	85,410	11,06,658	13	13,589	1,23,264	9
Barley... ..	498	3,068	6	2,026	12,473	6	294	1,523	5
Oil-seeds ...	15,446	72,602	5	14,500	73,848	5	1,842	12,504	6
Other crops ...	115,478	2,36,190	2	30,354	82,913	3	1,390	5,294	4
Total ...	152,582	4,93,583	3	132,290	12,75,892	10	17,115	1,42,585	8
Total under both heads ...	438,171	48,71,053	11	230,901	29,02,981	12	19,492	1,60,749	8

STATEMENT III-E—*contd.*

Description of crops.	Lloyd Barrage Canals— <i>contd.</i>			Inundation Canals.					
	Total Lloyd Barrage Systems.			Desert Canal.			Begari Canal.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	537,084	98,16,803	18	48,368	4,92,724	10	105,362	19,92,139	18
Jowari...	209,162	30,27,382	14	75,354	5,52,126	7	41,766	3,37,304	8
Bajri ...	154,646	21,71,715	14	18,661	1,66,808	9	6,390	50,075	8
Cotton ...	760,608	2,31,89,832	30	825	45,849	56	49	2,275	47
Sugar cane ...	2,638	78,559	29	...	...	...	4	40	10
Other crops ...	62,335	7,36,654	11	6,529	89,734	14	5,042	1,02,090	20
Total ...	1,726,473	3,90,20,345	22	149,737	13,47,241	9	158,613	24,83,923	16
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	894,306	1,27,38,341	14	25,408	3,93,657	15	28,121	2,70,599	9
Barley ...	5,551	49,861	8	22	209	9	63	193	3
Oil-seeds ...	85,684	7,98,493	9	17,750	56,395	3	7,395	49,243	6
Other crops ...	243,498	11,15,454	4	47,055	1,77,952	4	96,764	5,80,611	6
Total ...	1,229,039	1,47,02,149	12	90,235	6,27,213	7	132,943	9,00,651	6
Total under both heads ...	2,955,512	5,37,22,494	18	*239,972	19,74,454	8	*290,956	33,84,574	11

Description of crops.	Inundation Canals— <i>contd.</i>								
	Unharwah..			Sukkur Canal.			Canals in Rohri.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	16,307	1,78,812	11	1,851	35,000	19	3,584	40,000	12
Jowari ...	17,584	1,46,062	8	729	8,000	11	18,780	1,78,700	10
Bajri ...	13,273	99,765	7	1	20	20	3,642	35,000	10
Cotton ...	628	16,585	26	...	...	...	800	27,000	34
Sugar cane ...	...	...	...	...	...	...	...	...	...
Other crops ...	3,026	1,21,257	40	74	980	13	1,905	32,000	17
Total ...	50,818	5,62,481	11	2,655	44,000	17	28,711	3,12,700	11
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	18,546	3,16,917	17	549	5,000	9	7,019	52,015	7
Barley ...	13	121	9	...	...	...	51	250	5
Oil-seeds ...	2,294	25,131	11	249	750	3	769	5,250	7
Other crops ...	27,298	78,488	3	2,358	8,250	3	5,062	28,500	6
Total ...	48,151	4,20,657	8	3,156	14,000	4	12,901	86,015	7
Total under both heads ...	98,969	9,83,138	10	5,811	58,000	10	41,612	3,98,715	10

* Include the differences of area irrigated in 1934-35 in Kalat Territory.

STATEMENT III-E—*contd.*

Description of crops.	Inundation Canals— <i>contd.</i>								
	Sind Canal.			Rajib Canal.			Chitti Canal.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	31,958	4,78,000	14	4,592	88,000	19	3,913	69,000	19
Jowari ...	15,625	1,78,000	11	1,527	14,500	10	1,542	16,000	10
Bajri ...	84	800	10	...	...	...	...	...	...
Cotton ...	53	700	13	...	...	...	...	...	...
Sugar cane ...	...	...	...	...	...	...	...	...	...
Other crops ...	4,606	68,500	15	288	4,500	15	545	9,000	15
Total ...	55,386	7,26,000	13	6,407	1,07,000	17	6,000	94,000	17
RABI.									
Wheat ...	4,810	38,000	8	569	5,500	10	722	7,000	10
Barley ...	42	300	7	1	8	8	7	45	7
Oil-seeds ...	1,644	6,700	4	320	1,200	4	252	1,057	4
Other crops ...	34,896	1,85,000	5	4,641	15,292	3	5,679	21,898	3
Total ...	41,392	2,30,000	6	5,531	22,000	4	6,660	30,000	4
Total under both heads ...	96,778	9,56,000	10	11,938	1,29,000	11	12,660	1,24,000	10

Description of crops.	Inundation Canals— <i>contd.</i>								
	Garang Canal.			Indus Canals, Right Bank.			Indus Canals, Left Bank.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	1,093	28,000	19	6,913	1,38,260	20	24,857	5,96,140	24
Jowari ...	679	7,500	10	483	9,660	20	6	120	20
Bajri ...	2	20	10	907	18,140	20	1,253	25,060	20
Cotton ...	2	50	25	...	...	...	...	...	...
Sugar cane ...	...	...	...	39	585	15	3	60	20
Other crops ...	149	1,430	15	337	6,740	20	248	4,960	20
Total ...	1,925	37,000	16	8,679	1,73,385	20	26,367	6,26,340	24
RABI.									
Wheat ...	481	4,500	10	1,882	37,640	20	270	4,050	15
Barley ...	1	7	7	967	14,505	15	659	9,955	15
Oil-seeds ...	70	243	4	326	4,890	15	1,140	17,100	15
Other crops ...	1,890	5,250	3	2,551	51,020	20	1,403	21,045	15
Total ...	2,442	10,000	5	5,726	1,08,055	19	3,472	52,150	15
Total under both heads ...	4,337	47,000	10	14,405	2,81,440	20	29,839	6,78,490	23

STATEMENT III-E—*contd.*

Description of crops.	Inundation Canals— <i>contd.</i>								
	Pinyari Canal.			Baghar Canal.			Sattah Canal.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	71,939	14,38,780	20	11,590	2,31,800	20	10,023	2,00,460	20
Jowari ...	888	17,760	20	127	2,540	20	28	560	20
Bajri ...	1,321	13,210	10	3,617	54,255	15	641	9,615	15
Cotton ...	5	100	20	14	350	25	...	...	...
Sugar cane ...	18	360	20	560	14,000	25	64	1,600	25
Other crops ...	1,015	20,300	20	655	13,100	20	74	1,850	25
Total ...	75,186	14,90,510	20	16,563	3,16,045	19	10,830	2,14,085	20
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	749	11,235	15	301	6,020	20	477	9,540	20
Barley ...	1,796	26,940	15	1,120	16,800	15	132	1,980	15
Oil-seeds ...	10,301	1,54,515	15	65	975	15	88	1,320	15
Other crops ...	3,433	51,495	15	3,863	77,260	20	729	14,580	20
Total ...	16,279	2,44,185	15	5,349	1,01,055	19	1,426	27,420	19
Total under both heads.	91,465	17,34,695	19	21,912	4,17,100	19	12,256	2,41,505	20

Description of crops.	Inundation Canals— <i>contd.</i>								
	Fuleli Canal.			Other Canals in Fuleli Canals Division.			Mahiwah.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	183,086	43,23,365	24	11,356	2,69,292	24	10,609	82,000	8
Jowari ...	1,091	13,654	13	81	1,458	18	22,314	2,86,000	13
Bajri ...	19,544	3,63,344	19	5,651	1,33,744	24	7,748	95,000	12
Cotton ...	3,288	95,299	29	236	10,620	45	2,828	94,000	33
Sugar cane ...	216	11,203	52	...	...	...	...	...	...
Other crops ...	3,023	64,720	21	73	2,715	37	2,015	25,000	12
Total ...	210,248	48,71,585	23	17,397	4,17,829	24	45,514	5,82,000	13
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	3,200	38,818	12	357	5,704	16	7,067	45,000	6
Barley... ..	459	5,011	11	59	720	12	38	250	7
Oil-seeds ...	26,068	2,32,351	9	543	9,905	18	942	4,750	5
Other crops ...	7,322	1,39,830	19	605	16,128	27	12,560	39,000	3
Total ...	37,049	4,16,010	11	1,564	32,457	21	20,607	89,000	4
Total under both heads	247,297	52,87,595	21	18,961	4,50,286	24	66,121	6,71,000	10

STATEMENT III-E—*contd.*

Description of crops.	Inundation Canals— <i>conold.</i>								
	Kalri Canal.			Hassanali Canal.			Total Inundation Canals. (Productive and Unproductive.)		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
KHARIF.									
Rice ...	7,739	1,54,780	20	13,050	3,13,200	24	571,190	1,11,49,752	19
Jowari ...	389	7,780	20	145	2,610	18	1,99,198	17,80,334	8
Bajri ...	2,930	43,950	15	3,047	73,128	24	88,712	11,81,934	13
Cotton ...	...	...	...	37	1,665	45	8,765	2,94,493	33
Sugar cane ...	11	275	25	36	2,160	60	951	30,283	31
Other crops ...	568	11,360	20	128	3,882	30	30,300	5,54,118	19
Total ...	11,637	2,18,145	20	16,443	3,96,645	24	899,116	1,50,20,914	16
RABI.									
Wheat ...	344	6,880	20	7	112	16	100,879	12,57,187	12
Barley ...	1,079	16,185	15	...	...	...	6,509	93,484	14
Oil-seeds ...	209	3,135	15	616	12,320	20	71,041	5,87,230	8
Other crops ...	1,477	29,540	20	97	2,148	22	259,683	15,43,287	6
Total ...	3,109	55,740	18	720	14,580	20	438,112	34,81,188	7
Total under both heads ...	14,746	2,73,885	19	17,163	4,11,225	24	1,337,228	1,85,02,102	14

STATEMENT III-E.—*contd.*

Description of crops.	15—Other Revenue Expenditure financed from Ordinary Revenue. (1) Works for which Neither Capital nor Revenue Accounts are kept.								
	Kashmore Bund.			Bunds in Rohri.			Sukkur-Begari Bund.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	...	...	...	...	...	...	2,771	30,000	11
Jowari ...	772	9,276	12	...	...	...	291	3,000	10
Bajri ...	1,021	11,181	11	...	...	...	...	...	...
Cotton ...	14	963	69	...	...	...	...	...	...
Sugar cane ...	...	...	...	...	...	...	...	...	...
Other crops ...	222	3,635	16	...	...	...	415	3,800	9
Total ...	2,029	25,055	12	...	...	...	3,477	36,800	11
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	2,255	39,884	17	...	...	...	390	3,000	7
Barley ...	7	66	9	...	...	...	...	...	...
Oil-seeds ...	256	1,781	7	...	...	...	660	2,080	3
Other crops ...	1,313	9,001	6	...	...	...	2,343	5,420	3
Total ...	3,831	50,732	13	...	...	...	3,393	10,500	3
Total under both heads	5,860	75,787	13	...	...	...	6,870	47,300	7

(1) Neither, &c.—*contd.*

Description of crops.	(1) Neither, &c.— <i>contd.</i>								
	Kasimpur Bund.			Naich Bund.			Canals North of Kotri.		
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	...	...	...	...	...	...	797	6,376	8
Jowari ...	...	...	...	...	...	...	1,348	5,392	4
Bajri ...	...	...	...	...	...	...	2,596	10,384	4
Cotton ...	...	...	...	...	...	...	20	400	20
Sugar cane ...	...	...	...	...	...	...	...	...	...
Other crops ...	16	200	12	...	...	...	21	210	10
Total ...	16	200	12	...	...	...	4,782	22,762	5
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	202	1,490	7	...	...	...	980	7,840	8
Barley ...	1	10	10	...	...	...	...	...	...
Oil-seeds ...	30	250	8	...	...	...	185	925	5
Other crops ...	136	1,150	9	...	...	...	351	2,876	8
Total ...	369	2,900	8	...	...	...	1,516	11,641	8
Total under both heads	385	3,100	8	...	...	...	6,298	34,403	5

STATEMENT III-E.—*concl'd.*

Description of crops.	15—Neither, &c.,— <i>concl'd.</i>						Total for Sind.		
	Bunds in Karachi Canals Division.			Total 15—Neither.					
	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.	Area irrigated.	Estimated value.	Value per acre.
KHARIF.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Rice ...	3,019	43,785	15	6,587	80,161	12	1,114,861	2,10,46,716	18
Jowari ...	2	30	15	2,413	17,698	7	410,773	48,25,414	12
Bajri ...	162	2,430	15	3,779	23,995	6	247,137	33,77,644	17
Cotton ...	7	105	15	41	1,468	35	769,414	2,34,85,793	30
Sugar cane ...	47	705	15	47	705	15	3,636	1,09,547	30
Other crops ...	15	225	15	689	8,070	11	93,324	13,28,242	14
Total ...	3,252	47,280	15	13,556	1,32,097	9	2,639,145	5,41,73,356	20
RABI.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.
Wheat ...	40	600	15	3,867	52,814	14	999,052	1,40,48,342	14
Barley ...	286	4,290	15	294	4,366	14	12,354	1,47,711	11
Oil-seeds ...	15	165	11	1,146	5,201	4	157,871	13,90,924	8
Other crops ...	372	5,480	15	4,515	23,927	5	507,696	26,82,668	5
Total ...	713	10,535	15	9,822	86,308	8	1,676,973	1,82,69,645	10
Total under both heads.	3,965	57,815	15	23,378	2,18,405	9	4,316,118	7,24,43,001	17

A GORDON,
Chief Engineer in Sind.

STATEMENT

Comparative Statement of Irrigation

Civil District.	Of the Civil District. •			Works supplying irrigation.		Culturable area commanded by the Irrigation Works in column 6 in acres.	Area at present estimated as annually irrigable by the works specified in column 6 in acres.
	Total area in acres.	Culturable area in acres.	Cultivated area in acres. •	No.	Name.		
1	2	3	4	5	6	7	8
Kalat Territory ...	491,594	414,456	191,470	1	Desert Canal (Part) ...	133,457	52,970
				2	Begari Canal (Part) ...	103,968	6,651
				3	North-Western Canal System (Part).	177,031	88,816
					Total ...	414,456	148,437
Upper Sind Frontier ...	1,352,948	1,045,545	529,656	4	Desert Canal (Part) ...	303,554	174,324
				5	Unher Wah ...	203,244	114,056
				6	Begari Canal (Part) ...	282,931	232,073
				7	Canals from Kashmore Bund.	29,401	5,775
				8	Canals in Rohri ...	...	...
				9	North-Western Canal System (Part).	62,192	26,284
				10	Sukkur Canal ...	...	...
					Total ...	881,322	552,512
Sukkur Collectorate ...	3,613,565	1,502,721	573,697	11	Mahi Wah ...	152,431	106,873
				12	Canals in Rohri ...	144,091	118,935
				13	Sind Canal ...	143,295	95,928
				14	Rajib Canal ...	13,170	12,850
				15	Chitti Canal ...	11,090	11,180
				16	Garang Canal ...	5,680	5,770
				17	Sukkur-Begari Bund ...	16,450	13,450
				18	Kasimpur Bund ...		
				19	Begari Canal (Part) ...	110,632	68,431
				20	Naich Bund ...	...	...
				21	Sukkur Canal ...	6,559	6,089
				22	North-Western Canal System (Part).	69,661	50,338
				23	Dadu Canal System (Part).	13,351	11,057
				24	Eastern Nara System (Part).	73,774	46,701
				25	Rohri Canal System (Part).	799	547
					Total ...	760,983	548,249

IV-E.

and Rainfall for the year 1935-36.

Area irrigated in acres.						Rainfall.	
1934-35.			1935-36.			1934-35.	1935-36.
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.		
9	10	11	12	13	14	15	16
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches. cents.	Inches. cents.
10,419	6,182	16,601	55,573	32,097	87,670	6 55	5 41
1,857	176	2,033	9,589	1,276	10,865		
23,675	35,437	59,112	34,969	56,569	91,538		
35,951	41,795	77,746	100,131	89,942	190,073	5 43	3 74
89,480	47,184	136,664	94,164	58,138	152,302		
49,475	58,295	107,770	50,818	48,151	98,969		
111,160	83,159	194,319	100,991	96,237	197,228		
2,380	2,367	4,747	2,029	3,831	5,860		
...	...	...	...	...	...		
6,371	11,911	18,282	13,152	13,905	27,057		
...	...	...	...	...	...		
258,866	202,916	461,782	261,154	220,262	481,416		
42,420	15,590	58,010	45,514	20,607	66,121	4 63	2 25
22,984	6,936	29,920	28,711	12,901	41,612		
53,630	32,288	85,918	55,386	41,392	96,778		
5,602	4,704	10,306	6,407	5,531	11,938		
5,260	5,966	11,226	6,000	6,660	12,660		
1,622	2,371	3,993	1,925	2,442	4,367		
3,361	3,250	6,611	3,477	3,393	6,870		
17	459	476	16	369	385		
4,7025	34,748	81,773	46,043	33,083	79,126		
...	...	...	...	...	...		
2,110	3,226	5,336	2,655	3,156	5,811	4 98	...
17,791	30,943	48,734	29,516	22,304	51,820		
5,757	6,906	12,663	2,357	10,546	12,903		
9,460	6,008	15,468	10,593	6,251	16,844	4 66	...
36	1	37	...	...	...		
217,075	153,396	370,471	238,600	168,635	407,235		

STATEMENT

Comparative Statement of Irrigation and

Civil District.	Of the Civil District.			Works supplying irrigation.		Culturable area commanded by the Irrigation Works in column 6 in acres.	Area at present estimated as annually irrigable by the works specified in column 6 in acres.
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.		
1	2	3	4	5	6	7	8
Larkana Collectorate ...	1,374,231	962,896	592,523	26	Sind Canal ...	...	...
				27	Begari Canal (Part) ...	5,500	5,000
				28	North-Western Canal System (Part).	357,669	302,574
				29	Rice Canal System (Part).	281,576	262,413
				30	Dadu Canal System (Part).	63,927	76,000
					Total ...	708,672	645,987
Dadu Collectorate ...	717,579	536,598	307,269	31	Rice Canal System (Part).	145,000	145,000
				32	Dadu Canal System (Part).	248,600	245,600
				33*	Manchar Drainage System (Part).	31,000	27,000
				34	Canals North of Kotri .	6,300	6,300
					Total ...	430,900	423,900
Machi Collectorate ...	4,484,638	1,046,118	189,796	35	Kalri ...	38,207	38,207
				36	Baghar ...	96,915	96,915
				37	Pinyari ...	138,296	138,296
				38	Indus Canals, Right Bank.	56,589	56,589
				39	Indus Canals, Left Bank.	64,130	64,130
				40	Sattah Canal ...	20,925	20,925
				41	Bunds, Right Bank ...	12,245	12,245
				42	Bunds, Left Bank ...	3,020	3,020
				43	Other Canals in Fuleli Canals Division (Part)	5,228	5,228
					Total .	435,555	435,555

*Includes Aralwah.

IV-E —*contd.*Rainfall for the year 1935-36—*contd.*

Area irrigated in acres.						Rainfall.	
1934-35.			1935-36.			1934-35.	1935-36.
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.		
9	10	11	12	13	14	15	16
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches. cents	Inches. cents
...	...	...	...	...	...	2 71 5 33	2 42
2,815	1,308	4,123	1,990	1,747	3,737		
112,797	143,197	255,994	122,676	129,966	252,642		
176,939	85,018	261,957	181,846	94,646	276,492		
37,181	33,901	71,082	29,499	30,153	59,652		
329,732	263,424	593,156	336,011	256,512	592,523		
88,717	50,014	138,731	103,743	57,936	161,679	5 72	3 79
48,943	106,590	155,533	66,755	91,591	158,346		
4,024	14,771	18,795	2,377	17,115	19,492		
4,335	874	5,209	4,782	1,516	6,298		
146,019	172,249	318,268	177,657	168,158	345,815		
12,919	3,484	16,403	11,637	3,109	14,746	11 27	6 16
20,084	5,553	25,637	16,563	5,349	21,912	11 77	
83,007	12,853	95,860	75,186	16,279	91,465	7 05	
8,031	3,854	11,885	8,679	5,726	14,405	10 67	
29,881	2,866	32,747	26,367	3,472	29,839	6 70	
13,025	965	13,990	10,830	1,426	12,256	7 43	
3,108	543	3,651	2,745	523	3,268	9 99	
651	388	1,039	507	190	697	5 87	
1,196	53	1,249	969	239	1,208	...	
171,902	30,559	202,461	153,483	36,313	189,796		

STATEMENT

Comparative Statement of Irrigation and

Civil District.	Of the Civil District.			Works supplying irrigation.		Culturable area com- manded by the Irriga- tion Works in column 6 in acres.	Area at present estimated as annually irrigable by the works specified in column 6 in acres.
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.		
1	2	3	4	5	6	7	8
Thar Parkar Collec- torate.	8,749,890	4,277,104	1,348,850	44	Eastern Nara System (Part).	750,301	763,890
				45	Rohri Canal System (Part).	15,217	7,000
				Total ...		1,765,518	770,890
Nawabshah Collec- torate.	2,489,426	1,471,514	620,154	46	Eastern Nara System (Part).	260,283	90,355
				47	Rohri Canal System (Part).	1,471,514	533,000
				Total ...		1,731,797	623,355
Hyderabad Collectorate.	2,839,578	2,340,755	734,964	48	Fuleli Canal ...	961,395	247,297
				49	Hassanali Canal ...	114,186	17,163
				50	Other Canals in Fuleli Canals Division (Part).	61,534	17,753
				51	Rohri Canal System (Part).	1,164,124	446,035
				Total ...		2,301,239	728,248
Grand Total for Sind...						9,367,442	4,877,133

IV-E—concl'd.

Rainfall for the year 1935-36—concl'd.

Area irrigated in acres.						Rainfall.	
1934-35.			1935-36.			1934-35.	1935-36.
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.		
9	10	11	12	13	14	15	16
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches. cents.	Inches. cents.
452,036	261,166	713,202	483,509	271,031	754,540	11 11	} 7 26
...	...	...	3,362	2,956	6,318	...	
452,036	261,166	713,202	486,871	273,987	760,858		
52,854	37,366	90,220	52,363	37,366	89,729	7 11	} 4 33
276,541	233,814	510,355	296,611	233,814	530,425	9 67	
329,395	271,180	600,575	348,974	271,180	620,154		
223,263	33,154	256,417	210,248	37,049	247,297	} 8 10	} 5 58
18,182	1,457	19,639	16,443	720	17,163		
15,572	1,154	16,726	16,428	1,325	17,753		
258,253	151,897	410,150	293,145	152,890	446,035	5 73	
515,270	187,662	702,932	536,264	191,984	728,248		
2,456,246	1,584,347	4,040,593	2,639,145	1,676,973	4,316,118		

A. GORDON,
Chief Engineer in Sind.

Area of cultivation and consolidated revenue for 1935-36, and comparison with
• heads Kharif, Rabi and Irrigation share

Systems or canals.	Cultivation.			Consolidated assessment.			Remissions.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
1	2	3	4	5	6	7	8	9	10
55.—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS NOT CHARGED TO REVENUE.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A.—IRRIGATION WORKS.									
(1) PRODUCTIVE.									
Lloyd Barrage Canals—									
Rohri Canal System ...	554,725	337,640	892,365	28,71,756	15,87,677	44,59,433	2,01,648	1,07,388	3,09,036
Eastern Nara System ...	532,609	293,905	826,514	27,42,116	11,18,321	38,60,437	3,09,500	5,071	3,84,571
North-Western Canal System.	158,965	107,848	266,813	7,72,878	5,88,270	13,61,148	57,712	2,01,623	2,59,335
Rice Canal System ...	279,141	10,032	289,173	15,78,335	2,29,754	18,08,089	74,765	28,190	1,02,955
Dadu Canal System ...	94,602	102,230	196,832	4,11,960	5,08,781	9,20,741	52,944	80,686	1,33,630
Manchar Drainage System.	2,116	16,629	18,745	4,568	39,243	43,811	250	3,848	4,098
Total ...	1,622,158	868,284	2,490,442	83,81,613	40,72,046	1,24,53,659	6,96,819	4,96,806	11,93,625
INUNDATION CANALS—									
Desert Canal ...	91,545	42,234	133,779	3,10,989	1,02,167	4,13,156	1,07,218	46,828	1,54,046
Unher Wah ...	50,782	30,849	81,631	1,71,164	1,19,745	2,90,909	53,210	37,563	90,773
Begari Canal ...	135,416	45,923	181,339	6,39,953	1,61,867	8,01,820	1,66,717	82,657	2,49,374
Sukkur Canal ...	2,450	623	3,073	12,833	6,622	19,455	234	4,508	4,742
Canals in Rohri ...	27,661	9,978	37,639	97,388	18,084	1,15,472	14,505	4,123	18,628
Sind Canal ...	53,756	14,766	68,522	2,59,354	63,922	3,23,276	25,897	19,853	45,750
Rajib, Chitti and Garang...	14,276	4,724	19,000	74,607	30,271	1,04,878	2,498	13,280	15,778
Indus Canals, Right Bank.	8,457	3,930	12,387	23,658	7,161	30,819	13,579	2,332	15,911
Indus Canals, Left Bank...	26,312	2,476	28,788	85,916	5,420	91,336	31,734	2,675	34,409
Hydari Canal ...	73,426	12,300	85,726	2,44,113	27,556	2,71,669	92,816	17,212	1,10,028
Chhar Canal ...	15,691	2,047	17,738	41,422	6,473	47,895	24,951	2,401	27,352
Attah Canal ...	10,742	462	11,204	34,312	1,203	35,515	11,916	631	12,547
Ali Canal ...	168,971	27,599	196,570	5,89,518	42,191	6,31,709	1,04,125	28,542	1,32,667
Canals in Fuleli Division.	14,939	908	15,847	48,364	2,454	50,818	17,452	758	18,210
INUNDATION CANALS,	694,424	198,819	893,243	26,33,591	5,95,136	32,28,727	6,66,852	2,63,363	9,30,215
Productive ...	2,316,582	1,067,103	3,383,685	1,10,15,204	46,67,182	1,56,82,386	13,63,671	7,60,169	21,23,840

the average of the previous three years showing the increase or decrease under of net consolidated assessment.

Net consolidated assessment.	Irrigation share 90 per cent.	Average of previous 3 years.				Results as compared with the average of the previous 3 years.			
		Cultivation.			Irrigation share of net consolidated assessment.	Cultivation.			Irrigation share of net consolidated assessment.
		Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
11	12	13	14	15	16	17	18	19	20
	Rs.	Acres.	Acres.	Acres.	Rs.	Acres.	Acres.	Acres.	
41,50,397	37,35,357	428,202	280,805	709,007	28,71,389	126,523	56,835	183,358	8,63,968
34,75,866	31,28,279	489,851	286,803	776,654	28,86,696	42,758	7,102	49,860	2,41,583
11,01,813	9,91,632	137,679	139,634	277,313	8,91,222	21,286	— 31,786	— 10,500	1,00,410
17,05,134	15,34,521	260,222	11,097	271,319	14,56,633	18,919	— 1,065	17,854	77,988
7,87,111	7,08,400	89,907	99,558	189,465	6,79,997	4,695	2,672	7,367	28,403
39,713	35,742	3,022	16,136	19,158	37,413	— 906	493	— 413	— 1,671
1,12,60,034	1,01,34,031	1,408,883	834,033	2,242,916	88,23,350	213,275	34,251	247,526	13,10,681
2,59,110	2,33,199	91,561	45,771	137,332	2,29,923	— 16	— 3,537	— 3,553	3,276
2,00,136	1,80,122	51,203	42,098	93,301	1,70,114	— 421	— 11,249	— 11,670	10,008
5,52,446	4,97,201	1,56,640	58,874	215,514	5,24,014	— 21,224	— 12,951	— 34,175	— 26,813
14,713	13,242	1,856	2,166	4,022	15,208	594	— 1,513	— 949	— 1,966
96,844	87,160	25,618	9,020	34,638	95,121	2,043	958	3,001	— 7,961
2,77,526	2,49,773	47,895	16,210	64,105	2,25,767	5,861	— 1,414	4,417	24,006
89,100	80,190	10,802	7,685	18,487	72,003	3,474	— 2,961	513	8,187
14,908	13,417	10,161	2,775	12,936	16,931	— 1,704	1,155	— 549	— 3,514
56,927	51,235	31,481	1,796	33,277	56,868	— 5,169	680	— 4,489	— 5,633
1,61,641	1,45,477	82,123	11,623	93,746	1,57,305	— 8,697	677	— 8,020	— 11,828
20,543	18,489	20,989	2,500	23,489	27,850	— 5,298	— 453	— 5,751	— 9,361
22,968	20,671	12,638	637	13,275	19,838	— 1,896	— 175	— 2,071	833
4,99,042	4,49,138	210,317	31,822	242,139	4,47,414	— 41,346	— 4,223	— 45,569	1,724
32,608	29,347	16,374	1,266	17,640	32,310	— 1,435	— 358	— 1,793	— 2,963
22,98,512	20,68,661	769,658	234,243	1,003,901	20,90,666	— 75,234	— 35,424	— 110,658	— 22,005
1,35,58,546	1,22,02,692	2,178,541	1,068,276	3,246,817	1,09,14,016	138,041	— 1,173	136,868	2,88,676

Systems or canals, 1	Cultivation.			Consolidated assessment.			Remissions.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif	Rabi.	Total.
	2	3	4	5	6	7	8	9	10
55—CONSTRUCTION OF IRRIGATION, &c. — <i>contd.</i>									
A.—IRRIGATION WORKS — <i>contd.</i>									
(2) UNPRODUCTIVE.									
Mahiwah ...	45,458	10,973	56,431	1,31,632	24,523	1,56,155	11,941	3,212	15,153
Kalri Canal ...	11,290	991	12,281	30,820	3,665	34,485	22,107	1,346	23,453
Hassanali Canal ...	15,577	616	16,193	49,045	2,649	51,694	51,950	1,939	17,889
Total, Unproductive ...	72,325	12,580	84,905	2,11,497	30,837	2,42,334	49,998	6,497	56,495
15.—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUE.									
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.									
Kashmor Bund ...	2,029	3,792	5,821	4,522	6,251	10,778	1,640	1,691	3,331
Bunds in Rohri ...	...	...	...	...	...	...	...	...	...
Sukkur-Begari Bund ...	1,880	460	2,340	8,796	3,197	11,993	119	776	895
Kassimpur Bund ...	16	282	298	72	1,537	1,609	28	452	480
Naich Bund ...	...	...	...	...	...	...	...	...	...
Canals, north of Kotri ...	4,204	1,229	5,433	12,093	2,397	14,490	2,169	1,078	3,247
Bunds, Right Bank ...	2,676	179	2,855	7,885	575	8,460	4,590	145	4,735
Bunds, Left Bank ...	452	103	555	1,497	245	1,742	577	61	638
Total 15—Neither ...	11,257	6,045	17,302	34,865	14,202	49,067	9,123	4,203	13,326
Grand total for Sind ...	2,400,164	1,085,728	3,485,892	1,12,61,566	47,12,221	1,59,73,787	14,22,792	7,70,869	21,93,661

Net consolidated assessment.	Irrigation share 90 per cent.	Average of previous 3 years.				Results as compared with the average of the previous 3 years.			
		Cultivation.			Irrigation share of net consolidated assessment.	Cultivation.			Irrigation share of net consolidated assessment.
		Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.	
11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Acres.	Acres.	Acres.	Rs.	Acres.	Acres.	Acres.	Rs.
1,41,002	1,26,902	46,864	16,587	63,451	1,53,273	— 1,406	— 5,614	— 7,020	— 26,371
11,032	9,929	13,302	2,220	15,522	17,453	— 2,012	— 1,229	— 3,241	— 7,524
33,805	30,424	17,894	1,051	18,945	35,502	— 2,317	— 435	— 2,752	— 5,078
1,85,839	1,67,255	78,060	19,858	97,918	2,06,228	— 5,735	— 7,278	— 13,013	— 38,973
7,442	6,698	2,730	2,883	5,613	8,091	— 701	909	208	— 1,393
...	...	...	...	...	...	...	...	...	...
11,098	9,988	1,798	1,507	3,305	11,275	82	— 1,047	— 965	— 1,287
1,129	1,016	8	355	363	1,029	3	— 73	— 65	— 13
...	...	32	143	175	391	— 32	— 143	— 175	— 391
11,243	10,119	3,856	1,642	5,498	10,545	348	— 413	— 65	— 426
3,725	3,352	3,410	180	3,590	5,435	— 734	— 1	— 735	— 2,083
1,104	994	1,843	286	2,129	2,955	— 1,391	— 183	— 1,574	— 1,961
35,741	32,167	13,677	6,996	20,673	39,721	— 2,420	— 951	— 3,371	— 7,554
1,37,80,126	1,24,02,114	2,270,278	1,095,130	3,365,408	1,11,59,965	129,886	— 9,402	120,484	12,42,149

A.GORDON,
Chief Engineer in Sind

TABLE II.
Area of Cultivation and Canal Revenue—direct and indirect—during the year 1935-36.

Systems or Canals. 1	Cultivation.			Water share of net consolidated assessment. 5	Average Revenue before Improvement.		Balance irrigation share due to canals. 8	Hakabo. 9	Miscellaneous. 10	Total Canal Revenue (columns 8 + 9 + 10). 11	Receipts from sale of occupancy rights. 12	Total, direct and indirect receipts (cols. 11 + 12). 13
	Government. 2	Jagir. 3	Total. 4		Deduct. 6	Add. 7						
55.—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS NOT CHARGED TO REVENUE.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A.—IRRIGATION WORKS.												
(1) Productive.												
Lloyd Barrage Canals.												
Rohri Canal System	892,365	59,725	952,090	37,35,357	3,11,451	...	34,23,906	1,05,860	2,35,331	99,37,950	1,68,764	1,01,06,714
Eastern Nara System	826,514	20,496	847,010	31,28,279	3,444	...	31,24,835					
North-Western Canal System ..	266,813	103,153	369,966	9,91,632	86,865	...	9,04,767					
Rice Canal System	289,173	10,023	299,196	15,34,621	1,35,512	...	13,99,109					
Dadu Canal System	196,832	8,557	205,389	7,08,400	...	...	7,08,400					
Manchar Drainage System	18,745	612	19,357	35,742	...	...	35,742					
Total, Lloyd Barrage Canals ...	2,490,442	202,566	2,693,008	1,01,34,031	5,37,272	...	95,96,759	1,05,860	2,35,331	99,37,950	1,68,764	1,01,06,714
Inundation Canals.												
Desert Canal	133,779	*91,746	225,525	2,33,199	...	...	2,33,199	31,488	1,507	2,66,194	3,209	2,69,403
Unher Wah	81,631	68	81,699	1,80,122	...	...	1,80,122	42	1,124	1,81,288	5,006	1,86,294
Begari Canal	181,339	*28,360	209,699	4,97,201	28,840	...	4,68,361	20,259	13,698	5,02,318	13,186	5,15,504
Sukkur Canal	3,073	661	3,734	13,242	2,714	...	10,528	1,025	854	12,407	969	13,376
Canals in Rohri	37,639	1,520	39,159	87,160	...	...	87,160	5,406	4,485	97,051	5,309	1,02,360
Sind Canal	68,522	3,848	72,370	2,49,773	...	...	2,49,773	4,824	1,853	2,56,450	9,150	2,65,600
Rajib, Chitti and Garang	19,000	84	19,084	80,190	...	...	80,190	...	385	80,675	2,021	82,596

Indus Canals, Right Bank ...	...	...	12,387	256	12,643	13,417	...	...	13,417	330	595	14,342	2,528	16,870
Indus Canals, Left Bank ...	...	...	28,788	151	28,939	51,235	...	...	51,235	462	611	52,308	2,691	54,999
Pinyari Canal ...	...	...	85,726	1,986	87,712	1,45,477	...	...	1,45,477	1,816	2,138	1,49,431	5,938	1,55,369
Sattah Canal ...	...	...	11,204	119	11,323	20,671	16,145	...	4,526	60	152	4,738	1,207	5,945
Baghar Canal ...	...	...	17,738	1,219	18,957	18,489	...	...	18,489	675	1,275	20,439	1,941	22,380
Fuleli Canal ...	...	...	196,570	47,548	244,118	4,49,138	1,85,613	...	2,63,525	1,01,142	13,291	3,77,958	29,568	4,07,526
Other Canals in Fuleli Canals Division	...	...	15,847	2,627	18,474	29,347	...	...	29,347	25	492	29,864	1,431	31,295
Total, Inundation Canals ...	...	...	893,243	180,193	1,073,436	20,68,661	2,33,312	...	18,35,349	1,67,554	42,460	20,45,363	84,154	21,29,517
Total, Productive Works ...	...	...	3,383,685	382,759	3,766,444	1,22,02,692	7,70,584	...	1,14,32,108	2,73,414	2,77,791	1,19,83,313	2,52,918	1,22,36,231
(2) Unproductive.														
Mahi Wah ...	...	...	56,431	95	56,526	1,26,902	1,10,497	...	16,405	1,826	3,060	21,291	4,665	25,956
Kalri Canal ...	...	...	12,281	462	12,743	9,929	...	...	9,929	349	8,018	18,296	827	19,123
Hassanali Canal ...	...	...	16,193	856	17,059	30,424	5,916	...	24,508	300	1,202	26,010	1,068	27,078
Total, Unproductive ...	...	...	84,905	1,423	86,328	1,67,255	1,16,413	...	50,842	2,475	12,280	65,597	6,560	72,157
15.—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUE.														
(1) WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.														
Kashmore Bund ...	...	...	5,821	...	5,821	6,698	...	...	6,698	...	...	6,698	...	6,698
Bunds in Rohri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sukkur-Begari Bund ...	...	...	2,340	3,147	5,487	9,988	...	...	9,988	...	...	9,988	...	9,988
Kasimpur Bund ...	...	...	298	60	358	1,016	...	...	1,016	...	...	1,016	...	1,016
Naich Bund ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canals North of Kotri ...	...	...	5,433	800	6,233	10,119	...	...	10,119	...	...	10,119	...	10,119
Bunds, Right Bank ...	...	...	2,855	105	2,960	3,352	...	...	3,352	...	...	3,352	...	3,352
Bunds, Left Bank ...	...	...	555	119	674	994	...	...	994	...	...	994	...	994

* Includes differences of area irrigated in 1934-35 in Kalat Territory.

TABLE II.—*contd.*

Systems or Canals. 1	Cultivation.			Water share of net consolidated assessment. 5	Average Revenue before improvement.		Balance irrigation share due to canals. 8	Hakabo. 9	Miscellaneous. 10	Total Canal* Revenue. (columns 8+9+10). 11	Receipts from sale of occupancy rights. 12	Total direct and indirect receipts. (cols. 11+12). 13
	Government. 2	Jagir. 3	Total. 4		Deduct. 6	Add. 7						
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Average revenue before improvements, vide Bombay Government Resolutions Nos. 11559, 398 and 5079, dated 28th February and 13th April 1893 and 23rd February 1904 and Nos. 1699 and 1701, both dated 29th June 1905 and 1872 dated 26th May 1906.</i>												
Rohri Canal System	...	...	...	...	...	3,11,451	3,11,451	...	...	3,11,451	...	3,11,451
Rice Cana ¹ System	...	...	...	...	...	1,35,512	1,35,512	...	...	1,35,512	...	1,35,512
Eastern Nara System	...	...	...	...	...	3,444	3,444	...	...	3,444	...	3,444
North-Western Canal System	...	...	...	...	...	86,865	86,865	...	...	86,865	...	86,865
Begari Canal	...	...	...	...	...	28,840	28,840	...	...	28,840	...	28,840
Sukkur Canal	...	...	...	...	...	2,714	2,714	...	...	2,714	...	2,714
Sattah Canal	...	...	...	...	...	16,145	16,145	...	...	16,145	...	16,145
Mahi Wah	...	...	...	...	...	1,10,497	1,10,497	...	...	1,10,497	...	1,10,497
Fuleli Canal	...	...	...	...	...	1,85,613	1,85,613	...	...	1,85,613	...	1,85,613
Hassanal Canal	...	...	...	...	...	5,916	5,916	...	...	5,916	...	5,916
Total 15—Neither	17,302	4,231	21,533	32,167	...	8,86,997	9,19,164	...	...	9,19,164	...	9,19,164
Grand total for Sind	3,485,892	388,413	3,874,305	1,24,02,114	8,86,997	8,86,997	1,24,02,114	2,75,889	2,90,071	1,29,68,074	2,59,478	1,32,27,552

A. GORDON,
Chief Engineer in Sind.

Systems or Canals. 1	Area cultivated during the year.			Unrealized balance at the end of last year. 5	Assessment of the year.			Remis- sions. 9	Net total for collection. 10	Actual reali- zations. 11	Balance outstanding at the end of the year. 12
	Kharif. 2	Rabi. 3	Total. 4		Kharif. 6	Rabi. 7	Total. 8				
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
55—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS NOT CHARGED TO REVENUE.											
A—IRRIGATION WORKS.											
(1) Productive.											
Rohri Canal System	38,393	21,382	59,725	5,94,439	1,06,270	16,061	1,22,331	3	9,90,834	(a) 1,05,860	8,84,974
Eastern Nara System	13,856	6,640	20,496		31,852	3,889	35,741	...			
North-Western Canal System—											
British Territory	6,379	5,286	11,615		16,978	3,594	20,572	...			
Kalat Territory	34,969	56,569	91,538		1,37,995	2,46,869	3,74,864	1,84,091			
Rice Canal System	6,448	3,575	10,023		15,817	1,021	16,838	...			
Dadu Canal System	4,009	4,548	8,557		7,603	2,370	9,973	...			
Manchar Drainage System including Aralwah ..	261	351	612		173	...	173	...			
Total, Lloyd Barrage Canals ...	104,315	98,251	202,566	5,94,439	3,06,688	2,73,804	5,80,492	1,84,097	9,90,834	1,05,860	8,84,974

TABLE III—*contd.*

Systems or Canals.	Area cultivated during the year.			Unrealized balance at the end of last year.	Assessment of the year.			Remis- sions.	Net total for collection.	Actual reali- zations.	Balance outstanding at the end of the year.
	Kharif.	Rabi.	Total.		Kharif.	Rabi.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12
Inundation Canals.											
Desert Canal—	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
British Territory	2,619	1,457	4,076	— 46,923	1,893	227	2,120	...	— 44,803	} (a) 31,488	13,492
Kalat Territory	55,573	32,097	†87,670	58,482	49,184	13,058	62,242	30,941	89,783		
Begari Canal—											
British Territory	13,608	3,887	17,495	53,818	13,463	1,660	15,123	...	68,941	} (a) 20,259	33,512
Kalat Territory	9,589	1,276	†10,865	— 17,103	3,865	194	4,059	2,126	— 15,170		
Unhar Wah	36	32	68	1,213	187	88	275	...	1,488	42	1,446
Sukkur Canal	205	456	661	— 269	464	94	558	...	269	1,025	— 756
Canals in Rohri—											
British Territory	869	468	1,337	22,962	2,498	1,825	4,326	...	27,288	5,406	21,882
Bahawalpur State	181	2	183	419	453	5	458	...	877	...	877
Sind Canal	1,630	2,218	3,848	11,987	1,810	1,446	3,256	...	15,243	4,824	10,419
Rajib, Chitti and Garang	56	28	84	1,738	...	...	...	...	1,738	...	1,738
Indus Canals, Right Bank	222	34	256	— 3,429	183	11	194	...	— 3,235	330	— 3,565
Indus Canals, Left Bank	55	96	151	— 18,374	1	...	1	...	— 18,373	462	— 18,835
Pinyari Canal	1,760	226	1,986	29,720	1,315	94	1,439	...	31,159	1,816	29,343
Sattah Canal	88	31	119	90	32	...	32	...	122	60	62
Baghar Canal	872	347	1,219	9,824	4	6	480	...	10,304	675	9,629

(2) Unproductive.														
Mahiwah	...	...	...	56	39	95	— 315	1,519	753	2,272	...	1,957	1,826	131
Kalri Canal	...	...	...	347	115	462	4,524	201	6	207	...	4,731	349	4,382
Hassanali Canal	...	...	...	866	..	866	6,493	884	1	885	...	7,378	300	7,078
Total, Unproductive				1,269	154	1,423	10,702	2,604	760	3,364	...	14,066	2,475	11,591
15.—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUE WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.														
Kashmore Bund	...	...	...	...	...	...	—8	..	...	...	...	—8	...	—8
Bunds in Rohri	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sukkur-Begari Bund	...	...	...	1,597	1,550	3,147	32,878	...	...	...	...	32,878	...	32,878
Kasimpur Bund	...	...	...	...	60	60	...	...	...	...	...	...	...	...
Naich Bund	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canals North of Kotri	...	...	...	578	222	800	2,024	361	148	509	...	2,533	...	2,533
Bunds Right Bank	...	...	...	69	36	105	112	41	25	66	...	178	...	178
Bunds Left Bank	...	...	...	55	64	119	2,846	41	...	41	...	2,887	...	2,887
Total, 15—Neither				2,299	1,932	4,231	37,852	443	173	616	...	38,468	...	38,468
Total, British Territory				138,669	59,488	198,157	8,21,745	2,66,967	39,511	3,06,478	3	13,52,224	(a) 2,75,889	10,76,335
Foreign Lands :—														
Kalat Territory	...	...	...	100,131	89,942	190,073		1,81,044	2,60,121	4,41,165	2,17,161			
Bahawalpur State	...	...	...	181	2	183	419	453	5	458	...	877	...	877
Grand Total for Sind				238,981	149,432	388,413	8,22,164	4,48,464	2,99,637	7,48,101	2,17,164	13,53,101	2,75,889	10,77,212

(a) Separate figures for British and Kalat territories are not available.

A. GORDON,
Chief Engineer in Sind.

TABLE

Revenue Expenditure on New Works, Maintenance and Repairs
• Departments on Irrigation Works

Systems or Canals.	Revenue.				Expen.		
	Improvements.				Maintenance		
	Works.	Regular establish- ment.	Tools and Plant.	Total.	Clearance expenditure.		
					Works.	Works establish- ment.	Total. (cols. 6 + 7).
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
55—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS, NOT CHARGED TO REVENUE.							
A—IRRIGATION WORKS.							
(1) PRODUCTIVE.							
Lloyd Barrage Canals—							
Rohri Canals System							
Eastern Nara System							
North-Western Canal System							
Rice Canal System	18,683	14,527	126	33,336	22,60,098	9,41,737	32,01,835
Dadu Canal System							
Manchar Drainage System							
Total, Lloyd Barrage Canals ...	18,683	14,527	126	33,336	22,60,098	9,41,737	32,01,835
Inundation Canals—							
Desert Canal	...	...	...	...	90,718	32,617	1,23,335
Unbarwah	...	...	...	...	37,936	12,163	50,099
Begari Canal	849	461	5	1,315	2,10,202	47,729	2,57,931
Sukkur Canal	...	...	...	...	—2,877	1,127	—1,750
Canals in Rohri	7,259	3,872	48	11,179	61,056	13,609	74,665
Sind Canal	16,451	8,769	108	25,328	44,739	16,258	60,997
Rajib, Chitti and Garang... ..	...	...	...	...	9,516	3,260	12,766
Indus Canals, Right Bank	...	...	...	...	12,241	2,412	14,653
Indus Canals, Left Bank	...	...	...	...	59,418	7,539	66,957
Pinyari Canal	1,556	829	10	2,395	1,37,547	17,471	1,55,018
Sattah Canal	—1,959	...	...	—1,959	6,192	1,883	8,075
Baghar Canal... ..	...	...	...	...	21,612	7,728	29,340
Fuleli Canal	2,475	1,716	24	4,215	1,17,480	28,500	1,45,980
Other Canals in Fuleli Canals Division	...	...	...	...	21,928	2,075	24,003
Total, Inundation Canals ..	26,631	15,647	195	42,473	5,27,708	1,94,361	10,22,069
Total, Productive	45,314	30,174	321	75,809	30,87,806	11,36,098	42,23,904
(2) UNPRODUCTIVE.							
Mahi Wah	171	99	1	271	48,714	18,511	67,225
Kalri Canal	473	250	3	726	48,201	5,390	53,591
Hassanali Wah	—817	...	...	—817	17,038	2,244	19,282
Total, Unproductive ...	—173	349	4	180	1,13,953	26,145	1,40,098

IV.

and Establishment Charges in the Public Works and Revenue
in Sind during the year 1935-36.

diture.			Revenue collection charges.	Total columns (8+11+12),	Total Expenditure.				
and Repairs.					Works.	Establishment.		Indirect charges.	Total.
Regular establish- ment.	Tools and Plant.	Total (cols. 9+10).				P. W. D. including Tools and Plant.	Civil Department collection charges.		
9	10	11	12	13	14	15	16	17	18
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
21,10,061	20,492	21,30,553	3,18,875	56,51,263	32,20,518	21,45,206	3,18,875	30,705	57,15,304
21,10,061	20,492	21,30,553	3,18,875	56,51,263	32,20,518	21,45,206	3,18,875	30,705	57,15,304
65,746	817	66,563	11,871	2,01,769	1,23,335	66,563	11,871	1,233	2,03,002
26,707	332	27,039	10,732	87,870	50,099	27,039	10,732	501	88,371
1,40,350	1,747	1,42,097	31,214	4,31,242	2,58,780	1,42,563	31,214	2,588	4,35,145
401	15	416	— 4,325	—5,659	—1,750	416	— 4,325	—18	—5,677
39,837	504	40,341	5,499	1,20,505	81,924	44,261	5,499	819	1,32,503
32,517	405	32,922	14,426	1,08,345	77,448	41,799	14,426	774	1,34,447
6,806	85	6,891	4,428	24,085	12,766	6,891	4,428	128	24,213
7,811	97	7,908	875	23,436	14,653	7,908	875	147	23,583
35,693	444	36,137	1,806	1,04,900	66,957	36,137	1,806	670	1,05,570
82,637	1,028	83,665	6,701	2,45,384	1,56,574	84,504	6,701	1,566	2,49,345
4,875	73	4,948	—653	12,370	6,116	4,948	—653	61	10,472
15,640	194	15,834	1,344	46,518	29,340	15,834	1,344	293	46,811
1,01,243	1,457	1,02,700	15,256	2,63,936	1,48,455	1,04,440	15,256	1,485	2,69,636
12,796	159	12,955	1,843	38,801	24,003	12,955	1,843	240	39,041
5,73,059	7,357	5,80,416	1,01,017	17,93,502	10,48,700	5,96,258	1,01,017	10,487	17,56,462
26,83,120	27,849	27,10,969	4,19,892	73,54,765	42,69,218	27,41,464	4,19,892	41,192	74,71,766
38,937	489	39,426	581	1,07,232	67,396	39,526	581	674	1,08,177
28,415	355	28,770	830	83,191	54,064	29,023	830	541	84,458
10,462	135	10,597	1,378	31,257	18,465	10,597	1,378	185	30,625
77,814	979	78,793	2,789	2,21,680	1,39,925	79,146	2,789	1,400	2,23,260

TABLE

Systems or Canals, 1	Revenue.				Expen		
	Improvements.				Maintenance		
	Works.	Regular establish- ment.	Tools and Plant.	Total.	Clearance expenditure.		
					Works.	Works establish- ment.	Total (cols. 6+7). 8
2	3	4	5	6	7	8	

15—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUES WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Begari Canals Division—								
Bunds	44,422	11,110	282	55,814	50,518	37,980	88,498	
Hala Division—								
Bunds	...	...	...	...	24,682	6,430	31,112	
Karachi Canals Division—								
Bunds	2,037	531	13	2,581	2,05,880	12,482	2,18,362	
Shikarpur Canals Division—								
Bunds	6,239	1,589	38	7,866	1,01,907	29,654	1,31,561	
Dad Division—								
Bunds	12,112	3,480	76	15,668	37,872	5,571	43,443	
Fuleli Canals Division—								
Bunds	1,451	341	4	1,796	1,29,501	6,357	1,35,858	
Hyderabad Division—								
Bunds	4,273	1,143	20	5,436	10,603	1,601	12,204	
Nasrat Division—								
Bunds	196	62	...	258	10,709	...	10,709	
Northern Dadu Division—.								
Bunds	693	180	4	877	76,180	13,526	89,706	
Southern Dadu Division—								
Bunds	1,791	466	11	2,268	11,763	10,280	22,043	
Canals north of Kotri	...	...	...	...	10,989	3,135	14,124	
Development and Research Division	...	8,353	2,176	55	10,584	36,135	7,846	43,981
Rohri Division—								
Bunds	3,030	789	20	3,839	20,404	5,550	25,954	
Barrage Division—								
Bunds	3,449	899	...	4,371	...	...	...	
Khipro Division—								
Bunds	...	...	...	...	...	...	...	
Total ... 15—Neither	88,046	22,766	546	1,11,358	7,27,143	1,40,412	8,67,555	
Grand Total for Sind	1,33,187	53,289	871	1,87,347	39,28,902	13,02,655	52,31,557	

*IV—concl'd.

Expenditure.			Revenue collection charges.	Total columns (8 + 11 + 12).	Total Expenditure.				
and Repairs.					Works.	Establishment.		Indirect charges.	Total.
Regular establish- ment.	Tools and Plant.	Total (cols. 9 + 10).				P. W. D. including Tools and Plant.	Civil Department collection charges.		
9	10	11	12	13	14	15	16	17	18
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
22,135	563	22,698	3,741	1,14,937	1,32,920	34,090	3,741	...	1,70,761
7,617	74	7,691	7,694	46,497	31,112	7,691	7,694	...	46,497
56,990	1,415	58,405	1,295	2,78,062	2,20,399	58,949	1,295	...	2,80,643
33,523	805	34,328	18,039	1,83,928	1,37,800	35,955	18,039	...	1,91,794
12,484	275	12,759	7,958	64,160	55,555	16,315	7,958	...	79,828
32,002	397	32,399	24,872	1,93,129	1,37,309	32,744	24,872	...	1,94,925
3,267	59	3,326	1,881	17,411	6,477	4,489	1,881	...	22,847
3,420	54	3,474	5,157	19,340	10,905	3,536	5,157	...	19,598
23,366	567	23,933	14,085	1,27,724	90,399	24,117	14,085	...	1,28,601
5,743	147	5,890	34	27,967	23,834	6,367	34	...	30,235
3,681	93	3,774	20	17,918	14,124	3,774	20	...	17,918
11,460	292	11,752	...	55,733	52,334	13,983	...	...	66,317
6,763	172	6,935	...	32,889	28,984	7,744	...	...	36,728
...	...	...	...	...	3,449	922	...	...	4,371
...	...	...	344	344	...	...	344	...	344
2,22,451	4,913	2,27,364	85,120	11,80,039	9,55,601	2,50,676	85,120	...	12,91,897
29,83,385	33,741	30,17,126	5,07,801	87,56,484	53,64,744	30,71,286	5,07,801	42,592	89,86,423

A. GORDON,
Chief Engineer in Sind.

TABLE V.

Cultivation, Canal Revenue and Expenditure for 1935-36 as compared with three previous years.

100

Canal System or Canal. 1	Average of previous three years.			Per-centage of expendi-ture on revenue. 5	Cost of main-tenance per acre. 6	1935-36.			Per-centage of expendi-ture on revenue. 10	Cost of main-tenance per acre. 11	Length in miles.				
	Cultiva-tion. 2	Canal revenue. 3	Mainte-nance and revenue collection. 4			Cultiva-tion. 7	Canal revenue. 8	Mainte-nance and revenue collection. 9			Canals.			Bunds. 15	Total (miles). 16
											Main Canal. 12	Branches. 13	Total. 14		
55.—CONSTRUCTION OF IRRIGATION, NAVIGATION EMBANKMENT AND DRAINAGE WORKS—WORKS NOT CHARGED TO REVENUE.	Acres.	Rs.	Rs.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Miles.	Miles.	Miles.	Miles.	Miles.
A.—IRRIGATION.															
I.—PRODUCTIVE.															
LLOYD BARAGE CANALS—															
Rohri Canal System ...	769,117	90,54,208	47,61,872	52.6	2	952,090	1,04,75,222	56,51,263	53.9	2.1	(a) 207.70	(b) 2,316.16	2,523.86	...	2,523.86
Eastern Nara System ...	800,405					847,010					505.98	(c) 1,404.63	1,910.61	(d) ...	1,910.61
North-Western Canal System ...	340,383					369,966					105.60	818.50	924.10	...	924.10
Rice Canal System ...	278,139					299,196					(e) 81.80	(f) 444.55	526.35	...	526.35
Dadu Canal System ...	198,400					205,389					131.60	(g) 486.50	618.10	...	618.10
Manchar Drainage System ...	19,743					19,357					(h) 20.00	...	20.00	(i) 122	142.00
Total, Lloyd Barrage Canals ...	2,406,187	90,54,208	47,61,872	52.6	2	2,693,008	1,04,75,222	56,51,263	53.9	2.1	1,052.68	5,470.34	6,523.02	122	6,645.02
INUNDATION CANALS—															
Desert Canal ...	176,854	2,75,576	2,34,649	85.1	1.3	225,525	2,66,194	2,01,769	75.8	.9	79	255	334	...	324
Unher Wah ...	93,377	1,71,674	89,701	52.3	.96	81,699	1,81,288	87,870	48.5	1.08	(j) 31	89	120	...	120
Begari Canal ...	235,214	5,55,232	4,80,114	86.5	2.04	209,699	5,31,158	4,31,242	81.2	2.06	74	(k) 142	216	...	216
Sukkur Canal ...	4,559	16,701	559	3.3	.12	3,734	15,121	—5,659	...	...	7	...	7	...	7
Canals in Rohri ...	35,754	1,00,274	1,19,286	119.0	3.3	39,159	97,051	1,20,505	124.2	3.08	128	11	139	...	139

Sind Canal ...	66,403	2,30,351	1,84,044	79'9	2'8	72,370	2,56,450	1,08,345	42'2	1'5	38	(l) 88	126	...	126
Rajib, Chitti and Garang ...	18,548	72,665	26,280	36'1	1'4	19,084	80,575	24,085	13'0	1'3	23	...	23	...	23
Indus Canals, Right Bank ...	13,291	17,902	26,193	146'3	1'9	12,643	14,342	23,436	163'4	1'9	(m) 55	6	61	...	61
Indus Canals, Left Bank ...	33,365	59,959	68,756	114'7	2'06	28,939	52,308	1,04,900	200'5	3'6	109	73	(n) 182	...	182
Pinyari Canal ...	96,473	1,60,356	1,67,391	104'4	1'7	87,712	1,49,431	2,45,384	164'3	2'8	69	317	(o) 386	...	386
Sattah Canal ...	13,368	20,246	7,128	35'2	0'53	11,323	20,883	12,370	59'2	1'09	31	5	36	...	36
Baghar Canal ...	25,046	29,823	59,638	200'0	2'4	18,957	20,439	46,518	227'6	2'5	93	68	161	...	161
Fuleli Canal ...	301,485	5,33,823	2,73,489	51'2	0'91	244,118	5,63,571	2,63,936	46'8	1'8	81	623'94	(p) 704'94	...	704'94
Other Canals in Fuleli Division.	20,453	33,435	44,078	131'8	2'2	18,474	29,264	38,801	129'9	2'1	57'67	50'62	(q) 108'29	...	108'29
Total, Inundation Canals ...	1,134,190	22,78,017	17,81,286	78'2	1'6	1,073,436	22,78,675	17,03,502	74'8	1'6	875'67	1,728'56	2,604'23	...	2,604'23
Total, Productive ...	3,540,377	1,13,32,225	65,43,158	57'7	1'8	3,766,444	1,27,53,897	73,54,765	57'7	2'0	1,928'35	7,198'90	9,127'25	122	9,249'25
II.—UNPRODUCTIVE.															
Mahi Wah ...	63,536	1,58,146	1,10,679	70'0	1'7	56,526	1,31,788	1,07,232	81'4	1'9	38	265	(r) 303	...	303
Kalri Canal ...	16,016	17,999	48,809	271'2	3'05	12,743	18,296	83,191	454'7	6'5	49	59	108	...	108
Hassanali Wah ...	19,538	36,443	30,237	83'0	1'5	17,059	31,926	31,257	97'9	1'8	30'70	66'25	96'95	...	(s) 96'95
Total, Unproductive ...	99,090	2,12,588	1,89,725	89'2	1'9	86,328	1,82,010	2,21,680	121'8	2'6	117'70	390'25	507'95	...	507'7

- (a) Increase of 30 rules not accounted for last year through clerical error.
 (b) Increase due to excavation of new minors and readjustment of mileage of channels in Rohri canal circle.
 (c) Increase is due to re-measurement of channels in Eastern Nara circle.
 (d) In the last year's table of 1934-35 the length of 218'09 was shown as bunds, but these are really Nara banks; hence it is omitted.
 (e) Decrease due to mileage of 146'8 wrongly accounted for under main canal in 1934-35, which has now been shown under Branches—
 Increase of 17 miles not accounted for last year.
 (f) Increase due to excavation of two new minors.
 (g) Increase due to mileage of 28'6 not accounted for last year.
 (h) Increase of 6'6 miles not accounted for last year.
 It excludes 72'26 miles of mani Nara Valley Drain.
 (i) Decrease due to rechainning.
 (j) Difference due to remeasuring of canals.

- (k) Increase is due to transfer of certain channels from North Western canal and also inclusion of Lund minor.
 (l) Increase due to inclusion of more shakh not accounted for last year.
 (m) Decrease due to erosion of some portion by the river and also to new chainage.
 (n) Decrease due to new heads given to Khanto and Saida canals.
 (o) Decrease due to remeasuring.
 (p) Decrease due to abandonment of Lundowah and removal of bend in Shadiwah large.
 (q) Difference is due to mistakes in totals in the last year's table.
 (r) Increase is due to the following—
 (i) Excavation of new cut to Gudu Dhand.
 (ii) Emergency feeder including old Gudu Dhand not being maintained now.
 (iii) Erosion of a portion of Masu Dhand.
 (iv) Old Deharwah head portion cut up by mahlwah not now being maintained.
 (s) Increase due to distributory left ex Hassanali canal non-accounted for.

TABLE V—concluded.

Canals System or Canals.	Average of three previous years.			Per-centage of expendi- ture on revenue.	Cost of main- tenance per acre.	1935-36.			Per-centage of expendi- ture on revenue.	Cost of main- tenance per acre.	Length in miles.				
	Cultiva- tion.	Canal revenue.	Mainten- ance and revenue collection.			Cultiva- tion.	Canal revenue.	Mainten- ance and revenue collection.			Canals.			Bunds.	Total. (miles)
											Main Canal.	Branches.	Total. (miles)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15.—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUE.	Acres.	Rs.	Rs.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Miles.	Miles.	Miles.	Miles.	Miles.
WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.															
Begari Canals Division—															
Bunds 	5,613	8,091	1,68,009	2,076·5	29·9	5,821	6,698	1,14,937	1,716·0	19·7	...	...	...	(t) 127	127
Shikarpur Canals Division—															
Bunds 	6,340	12,699	3,20,796	2,526·2	50·6	5,845	11,004	1,83,928	1,571·5	31·5	...	...	...	(u) 147	147
Karachi Canals Division—															
Bunds, Right Bank ...	3,783	8,390	3,75,848	4,479·7	61·9	{ 2,960 674 }	4,346	2,78,062	6,398·1	76·5	...	...	...	(v) 150·77	150·77
Bunds, Left Bank ...	2,290														
Hala Division—															
Bunds 	...	...	35,926	...	...	...	...	45,497	...	...	...	...	...	(w) 21·50	21·50
Dad Division—															
Bunds 	...	...	65,525	...	...	...	...	64,160	...	...	...	...	...	(x) 62·50	62·50
Fuleli Canals Division—															
Bunds 	...	...	1,85,752	...	...	...	...	1,93,129	...	...	...	...	...	40·76	40·76

Hyderabad Division—																
Bunds	...	...	...	...	13,734	...	...	...	...	17,411	...	...	...	...	...	13
Nasrat Division—																
Bunds	...	...	...	...	19,432	...	...	...	...	19,340	...	...	...	...	...	...
Northern Dadu Division—																
Bunds	...	...	...	...	1,07,557	...	...	...	...	1,27,724	...	...	...	...	(y) 118°30	118°30
Development and Research Division,																
Bunds	...	...	...	...	51,721	...	...	...	...	55,733	...	...	...	...	...	...
Rohri Division—																
Bunds	...	...	...	...	40,486	...	...	...	...	32,889	...	...	...	...	(z) 58°25	58°25
Canals north of Kotri	...	6,769	10,545	8,347	79°2	1°2	6,233	10,119	17,918	177°07	2°9	47	...	*47	† ...	47
Southern Dadu Division—																
Bunds	...	...	...	...	39,842	...	...	...	...	27,967	...	...	...	...	† 55°10	55°10
Barrage Division—																
Bunds	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total 15—Neither	...	24,795	39,725	14,32,975	36°07	57°8	21,533	32,167	11,79,695	3,667°4	54°8	47	...	47	794°18	841°18
Grand Total for Sind	...	3,664,262	1,15,84,538	81,65,858	70°5	2°2	3,874,305	1,29,68,074	87,56,140	67°5	2°3	2,093°05	7,589°15	9,682°20	916°18	10,598°38

(†) Increase due to 2·69 miles of Unherwah Right Bank having been converted into Bund.

(*) The difference is due to:—

- (i) Maintenance of Beechanji loop and front Bund ... 10°61
- (ii) Constn : of cross Bund ex-Kassimpur Nabishah Bund ... 0°94
- (iii) Constn : of loop Bund ex-Kassimpur Nabishah Bund ... 2°10

Total ... 13°65

Abandonment of portion of Kassimpur Nabishah Bund ... —0°91

Net difference ... 12°74

(v) Decrease due to abandonment of some portions.

(w) Increase due to construction of new Bunds as shown below:—

- (i) Gharo Mahmudo ... 6°1
- (ii) Khebar Matiari ... 15°4

Total ... 21°5

Original 7 miles transferred to Dad Division.

(x) Increase due to transfer of 7 miles from Hala Division.

(y) Increase due to construction of loop Bund.

(z) Decrease due to clerical error in the last year's table.

* Increase due to remeasuring

† Decrease of one mile is due to the abandonment of Bund.

‡ Decrease due to clerical error in the last year's table.

A. GORDON,
Chief Engineer in Sind.

TABLE VI.

Statement showing receipts from sale of occupancy rights in waste or other lands not belonging to Major and Minor Works, but directly benefitted by their construction, for the year 1935-36.

Canal system or canal.	Particulars of 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.
	Taluka.	Village.	Area.	Assessment.				
1	2	3	4	5	6	7	8	9
55—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS NOT CHARGED TO REVENUE.								
A.—IRRIGATION.								
(1) PRODUCTIVE.								
Lloyd Barrage Canals.	Rohri Canal System.		4,029	5	1,090	109	981	39
	Eastern Nara Canal System.		1,384	7,037	6,083	608	5,475	219
	North-Western Canal System.		1,267	2,598	...	...	...	...
	Rice Canal System.		...	...	...	...	...	...
	Dadu Canal System.		...	...	...	...	...	...
	Manchar Drainage System.		...	...	...	...	...	...
	Total Lloyd Barrage Canals		6,680	9,640	7,173	717	6,456	258
Begari Canals Division.	Begari Canal	...	...	...	*6,517	652	5,865	235
	Desert Canal	...	...	...	†1	...	...	...
	Unhar Wah	...	59	57	2,446	245	2,201	88
	Total	...	59	57	8,964	897	8,066	323
Shikarpur Canals Division.	Sukkur Canal	...	...	...	...	...	...	...
	Canals in Rohri	...	20	57	421	42	379	15
	Sind Canal	...	7	...	82	8	74	3
	Rijib, Chitti and Garang.	...	...	...	...	...	...	...
	Total	...	27	57	503	50	453	18
Karachi Canals Division.	Indus Canals Right Bank.	...	84	106	80	8	72	3
	Indus Canals Left Bank.	...	35	28	113	11	102	4
	Pinyari Canal	...	6	22	148	15	133	5
	Baghar Canal	...	15	47	1,000	100	900	36
	Sattah Canal	...	...	...	...	...	...	...
	Total	...	140	203	1,341	134	1,207	48
Fuleli Canals Division.	Fuleli Canal	...	2,729	2	74	7	67	3
	Other Canals	...	...	...	...	...	...	...
	Total	...	2,729	2	74	7	67	3
	Total Productive	...	9,635	9,959	18,055	1,805	16,249	650

* Instalment and Malkano for the land granted in previous years recovered.

† Difference of Malkano recovered.

TABLE VI—*concl'd.*

Canal system or canal.	Particulars of lands the occupancy rights of which were sold.				Amount of receipts from sale of occupancy rights.	Land share 1/10.	Irrigation share 9/10.	Suma to be credited as indirect revenue calculated at 4 per cent. on Irrigation share.
	Taluka.	Village.	Area.	Assessment.				
1	2	3	4	5	6	7	8	9
5—CONSTRUCTION OF IRRIGATION, NAVIGATION, EMBANKMENT, AND DRAINAGE WORKS NOT CHARGED TO REVENUE. <i>—cont'd.</i>								
A.—IRRIGATION.								
(2) UNPRODUCTIVE.								
Shikarpur Division. Canals { Mahi Wah ...			9	22	195	20	175	7
Karachi Division. Canals { Kalri Canal ...			137	355	471	47	424	17
Fuleli Division. Canals { Hassahali Canal ...			...	...	...	...	...	...
Total Unproductive ...			146	377	666	67	599	24
15—OTHER REVENUE EXPENDITURE FINANCED FROM ORDINARY REVENUE WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.								
Begari Division. Canals { Kashmore Bund ...	Too numerous to mention.	Too numerous to mention.	...	...	...	...	...	...
Shikarpur Division. Canals { Bunds in Rohri ...			...	...	...	...	...	...
Shikarpur Division. Canals { Sukkur-Begari Bund ...			...	...	...	...	...	...
Shikarpur Division. Canals { Kasimpur Bund ...			...	...	...	...	...	...
Total ...			...	...	...	...	...	...
Southern Dadu Division. Canals { North of Kotri ...			...	...	...	...	...	...
Karachi Division. Canals { Bunds Right Bank ...			...	...	...	...	...	...
Karachi Division. Canals { Bunds Left Bank ...			...	...	...	...	...	...
Total ...			...	...	...	...	...	...
Total 15—Neither ...			...	...	...	...	...	...
Lloyd Barrage Canals ...			6,680	9,640	7,173	717	6,456	258
Begari Canals Division ...			59	57	8,964	897	8,066	323
Shikarpur Canals Division ...			36	79	698	70	628	25
Karachi Canals Division ...			277	568	1,812	181	1,631	65
Fuleli Canals Division ...			2,729	2	74	7	67	3
Southern Dadu Division ...			...	...	...	...	...	...
Grand Total for Sind ...			9,781	10,336	18,721	1,872	16,848	674

A. GORDON,
Chief Engineer in Sind.

TABLE VII
CROP RETURN FOR SIND, 1935-36.

			Kharif.	Rabi.	Total.
			Acres.	Acres.	Acres.
Government	...	...	2,400,164	1,085,728	3,485,892
Foreign	...	..	100,312	89,944	190,256
Jagir	...	...	138,669	59,488	198,157
Dubari	...	...	...	441,813	441,813
Total			2,639,145	1,676,973	4,316,118

PERCENTAGES.

Kharif.	Rabi.	Total.	Lift.	Flow.	Total.
61	39	100	6	94	100

TABLE
Crop Return for

Canal System.	KHARIF.											
	CLASS OF CROPS.											
	Rice.				Jowari.				Bajri.			
	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
	Area in acres.				Area in acres.				Area in acres.			
55.—CONSTRUCTION OF IRRIGATION, NAVIGATION EMBANKMENT AND DRAINAGE WORKS (CAPITAL EXPENDITURE NOT CHARGED TO REVENUE).												
A—IRRIGATION WORKS.												
I—PRODUCTIVE.												
LLOYD BARRAGE CANALS.												
ROHRI CANAL SYSTEM.												
Government ...	11	3,618	...	3,629	18,048	57,127	...	75,175	18,385	66,945	...	85,330
Jagir ...	...	343	...	343	731	2,721	...	3,452	1,480	7,701	...	9,181
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	11	3,961	...	3,972	18,779	59,848	...	78,627	19,865	74,646	...	94,511
EASTERN NABA SYSTEM.												
Government ...	22	87,237	...	87,259	2,209	11,730	...	13,939	5,109	52,344	...	67,543
Jagir ...	...	2,936	...	2,936	1,303	1,761	...	3,054	147	1,115	...	1,262
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	22	90,173	...	90,195	3,512	13,491	...	16,993	5,346	53,459	...	58,805
NORTH-WESTERN CANAL SYSTEM.												
Government ...	...	112,697	...	112,697	1,546	32,799	...	34,345	9	341	...	350
Foreign ...	...	1,405	...	1,405	359	31,856	...	32,195	...	3	...	3
Jagir ...	...	6,191	...	6,191	74	79	...	153	...	...	...	...
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	120,293	...	120,293	1,959	64,734	...	66,693	9	344	...	353
RICK CANAL SYSTEM.												
Government ...	...	269,434	...	269,434	820	6,002	...	6,822	257	10	...	267
Jagir ...	...	5,230	...	5,230	29	1,092	...	1,121	...	13	...	13
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	274,664	...	274,664	849	7,094	...	7,943	257	23	...	280

KHARIF—contd.

CLASS OF CROPS—contd.

Cotton.				Sugar-cane.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total	Lift.	Flow.	Spill, except from Govt. canals.	Total
Area in acres.				Area in acres.				Area in acres.			
31,171	531,900	...	363,080	30	271	...	301	...	136	...	136
3,777	20,421	...	24,201	5	2	...	7	...	132	...	132
...	...	...	...	...	...	...	...	...	...	...	...
34,948	352,333	...	387,281	35	273	...	303	...	268	...	268
10,066	343,258	...	353,324	42	2,206	...	2,248	...	...	...	...
542	5,700	...	6,242	1	12	...	13	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
10,608	348,958	...	359,566	43	2,218	...	2,261	...	...	...	...
4	4,640	...	4,644	...	14	...	14	...	...	...	...
...	98	...	98	...	2	...	2	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
4	4,738	...	4,742	...	16	...	16	...	...	...	...
...	10	...	10	...	12	...	12	...	40	...	40
...	...	...	...	...	11	...	11	...	7	...	7
...	...	...	...	...	...	...	...	...	...	...	...
...	10	...	10	...	23	...	23	...	47	...	47

KHARIF—concl'd.							
CLASS OF CROPS—concl'd.				Total kharif.			
Other crops.							
Lift.	Flow.	Spill, except from Govt. canals.	Total	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
3,700	23,374	...	27,074	71,345	483,380	...	554,725
508	569	...	1,077	6,601	31,892	...	38,393
...	...	...	...	...	...	...	...
4,208	23,943	...	28,151	77,846	515,272	...	593,118
1,076	17,220	...	18,296	13,615	513,994	...	532,609
5	344	...	349	1,997	11,859	...	13,856
...	...	...	...	...	...	...	...
1,081	17,564	...	18,645	20,612	525,353	...	546,465
22	6,893	...	6,915	1,581	157,384	...	159,965
7	1,259	...	1,266	346	34,023	...	34,969
...	35	...	35	74	6,305	...	6,379
...	...	...	...	...	...	...	...
20	8,187	...	8,216	2,601	109,312	...	200,313
69	2,487	...	2,556	1,146	277,995	...	279,141
2	04	...	06	31	6,417	...	6,448
...	...	...	...	...	...	...	...
71	2,551	...	2,622	1,177	284,412	...	285,689

RABI.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
36,747	274,385	.	311,132	366	947	...	1,313
2,011	16,569	...	18,580	11	93	...	104
3,730	21,210	...	24,949	33	210	...	243
42,497	312,164	...	354,661	410	1,250	...	1,660
5,683	276,702	...	282,390	48	671	...	719
713	5,303	...	6,016	...	36	...	36
466	8,531	...	8,997	5	81	...	86
6,867	290,536	...	297,403	53	788	...	841
458	68,622	...	69,080	4	182	...	186
893	44,083	...	44,976	...	18	...	18
57	2,244	...	2,301	...	7	...	7
21	5,705	...	5,726	1	20	...	21
1,429	120,654	...	122,083	5	227	...	232
2,285	2,504	...	4,789	3	337	...	340
598	365	...	963	...	3	...	3
...	15,408	...	15,408	...	155	...	155
2,883	18,277	...	21,160	3	495	...	498

CLASS OF CROPS—contd.

Oil seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	• Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
775	7,797	...	8,572	1	4,177	..	4,178
78	378	...	456	...	1,745	...	1,745
135	994	...	1,129	...	...	...	...
998	9,169	...	10,157	1	5,922	...	5,923
61	3,759	...	3,820	...	1,213	...	1,213
2	143	..	145	...	6	...	6
34	292	...	326	...	1	...	1
97	4,194	...	4,281	...	1,220	...	1,220
33	25,671	...	25,704	...	...	...	...
12	8,821	...	8,833	...	...	...	...
30	2,085	...	2,121	...	...	...	...
...	2,790	...	2,790	...	...	...	...
81	39,367	...	50,448	...	...	...	...
106	3,521	...	3,717	...	...	...	...
30	914	...	944	...	...	...	...
...	10,785	...	10,785	...	...	...	...
226	15,220	...	15,446	...	...	...	...

VII.

Sind 1935-36.

RABI—concl'd.												Remarks.
CLASS OF CROPS—concl'd.				Total Rabi.				Total Cultivation.				
Other crops.								Total.				
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
789	11,656	...	12,445	38,678	298,962	...	337,640	110,023	782,342	...	892,365	
118	329	...	447	2,218	19,114	...	21,332	8,719	51,006	...	59,725	
388	3,981	...	4,367	4,293	26,395	...	30,688	4,293	26,395	...	30,688	
1,203	15,966	...	17,259	45,189	344,471	...	389,660	123,035	859,743	...	982,778	
227	5,536	...	5,763	6,024	287,881	...	293,905	24,639	801,875	...	826,514	
1	436	...	437	716	5,924	...	6,640	2,713	17,783	...	20,496	
221	4,472	...	4,693	726	13,377	...	14,103	726	13,377	...	14,103	
449	10,444	...	10,893	7,466	307,182	...	314,648	28,078	833,035	...	861,113	
17	12,861	...	12,878	512	107,336	...	107,848	2,093	264,720	...	266,813	
4	2,738	...	2,742	909	55,660	...	56,569	1,255	90,283	...	91,538	
10	797	...	807	103	5,133	...	5,236	177	11,438	...	11,615	
15	44,539	...	44,554	37	53,054	...	53,091	37	53,051	...	53,091	
46	60,935	...	60,981	1,561	221,183	...	222,744	3,562	419,495	...	423,057	
80	1,106	...	1,186	2,584	7,468	...	10,032	3,710	285,463	...	289,173	
...	1,665	...	1,665	628	2,947	...	3,575	659	9,364	...	10,023	
...	112,627	...	112,627	...	138,975	...	138,975	...	138,975	...	138,975	
80	115,398	...	115,478	3,102	149,390	...	152,582	4,369	433,802	...	438,171	

TABLE
Crop Return for

KHARIF.

CLASS OF CROPS.

Canal System.	Rice.				Jowari.				Bajri			
	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
	Area in acres,				Area in acres.				Area in acres.			
LLOYD BARRAGE CANALS—consold.												
DADU CANAL SYSTEM.												
Government	14	45,829	...	45,843	10,930	24,802	...	35,732	157	427	...	584
Jagir	...	1,802	...	1,802	258	1,189	...	1,447	6	2	...	8
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	14	47,631	..	47,645	11,188	25,991	...	37,179	163	429	...	592
MANCHAR DRAINAGE SYSTEM.												
Government	...	201	...	201	1,583	22	...	1,605	83	...	...	83
Jagir	...	24	...	24	101	21	...	122	22	..	..	22
Dubari	...	..	...	...	...	..	...	...	...	...	...	...
Total	...	315	...	315	1,684	43	...	1,727	105	...	...	105
Total, Lloyd Barrage Canals.	47	537,037	...	537,084	37,971	171,191	...	209,162	25,745	128,901	...	154,646
INUNDATION CANALS.												
DESERT CANAL.												
Government	...	29,011	...	29,011	1,686	40,822	...	42,508	2,985	11,821	...	14,806
Foreign	...	17,892	...	17,892	3,827	27,077	...	31,804	2,014	1,784	...	3,798
Jagir	...	1,465	...	1,465	...	1,042	...	1,042	...	87	..	87
Dubari	...	...	...	...	...	...	...	...	...	...	...	..
Total	...	48,368	...	48,368	5,513	69,841	...	75,354	4,999	13,692	...	18,691
UNHARWAN.												
Government	...	16,204	...	16,204	1,647	15,937	...	17,579	1,701	11,572	...	13,273
Jagir	...	13	...	13	...	5	...	5	...	...	...	...
Dubari	...	..	...	...	...	...	...	...	...	...	...	...
Total	...	16,307	...	16,307	1,647	15,937	...	17,584	1,701	11,572	...	13,273

CLASS OF CROPS—*contd.*

Cotton.				Sugar cane.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill except from Govt. canals.	Total.
Area in acres.				Area in acres.				Area in acres.			
435	7,950	...	8,385	11	17	...	28	...	18	...	18
23	595	...	618	...	...	...	...	...	8	...	8
...	...	...	...	...	...	...	...	...	...	...	...
458	8,545	...	9,003	11	17	...	28	...	28	...	26
6	...	...	6	2	...	...	2	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	6	2	...	...	2	...	...	...	...
46,024	714,584	...	760,608	91	2,547	...	2,638	...	341	...	341
...	756	...	756	...	...	...	...	...	17	...	17
...	69	...	69	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	825	...	825	...	...	...	...	...	17	...	17
...	628	...	628	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	628	...	628	...	...	...	...	...	...	...	...

RABL.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
11,763	69,142	...	80,905	143	1,705	...	1,848
85	2,149	...	2,534	10	7	...	17
56	1,915	...	1,971	2	159	...	161
11,904	73,506	...	85,410	155	1,871	...	2,026
715	...	12,705	13,420	12	...	270	282
49	...	84	133	3	...	9	12
3	...	33	36	...	...	...	...
767	...	12,822	13,589	15	...	279	294
66,347	815,137	12,822	894,306	641	4,631	279	5,551
...	17,407	...	17,407	...	21	...	21
12	7,045	...	7,057	...	...	...	...
...	142	...	142	...	...	...	...
...	802	...	802	...	1	...	1
12	25,396	...	25,408	...	22	...	22
...	17,672	...	17,672	...	12	...	12
...	...	...	...	...	...	...	...
...	874	...	874	...	1	...	1
...	18,546	...	18,540	...	13	...	13

CLASS OF CROPS—contd.

Oil-seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
261	10,648	41	10,650	...	...	...	...
...	1,253	..	1,253	...	...	...	...
4	1,331	962	2,297	...	...	...	...
265	13,232	1,003	14,500	...	...	...	...
5	...	1,750	1,755	...	...	...	...
11	...	43	54	...	...	...	...
12	...	21	33	...	...	...	...
28	...	1,814	1,842	...	...	...	...
1,685	81,182	2,817	85,084	1	7,142	...	7,143
...	6,225	...	6,225	...	18	...	18
...	10,787	...	10,787	...	...	...	...
...	110	...	110	...	...	...	...
...	628	...	628	...	...	...	...
...	17,750	...	17,750	...	18	...	18
...	1,608	...	1,608	...	14	...	14
...	...	...	...	...	...	...	...
...	686	...	686	...	...	...	...
...	2,294	...	2,294	...	14	...	14

VII.—*contd.*Sind, 1935-36—*contd.*

RABI—concl'd.												Remarks.
CLASS OF CROPS—concl'd.				Total Rabi.				Total Cultivation.				
Other crops.												
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
458	5,063	6	8,527	12,625	89,558	47	102,230	24,389	172,396	47	196,832	
2	742	...	744	97	4,451	...	4,548	411	8,146	...	8,557	
188	17,916	2,979	21,083	250	21,321	3,941	25,512	250	21,321	3,941	25,512	
648	26,721	2,985	30,354	12,972	115,330	3,988	132,290	25,050	201,863	3,988	230,901	
21	...	1,151	1,172	753	...	15,876	16,629	2,548	321	15,876	18,745	
25	...	127	152	88	...	263	351	213	136	263	612	
...	...	66	66	15	...	120	135	15	...	120	135	
46	...	1,344	1,390	858	...	16,259	17,115	2,776	457	16,259	19,492	
2,562	229,464	4,329	236,355	71,236	1,137,556	20,247	1,229,039	186,870	2,748,395	20,247	2,955,512	
...	18,563	...	18,563	...	42,234	...	42,234	4,704	129,075	...	133,779	
5	14,248	...	14,253	17	32,080	...	32,097	5,953	81,718	...	*87,670	
...	1,205	...	1,205	...	1,457	...	1,457	...	4,076	...	4,076	
...	13,016	...	13,016	...	14,447	...	14,447	...	14,447	...	14,447	
5	47,032	...	47,037	17	90,218	...	90,235	10,656	229,316	...	239,972	
...	11,543	...	11,543	...	30,849	...	30,849	3,397	78,234	...	81,631	
...	32	...	32	...	32	...	32	...	68	...	68	
...	15,709	...	15,709	...	17,270	...	17,270	...	17,270	...	17,270	
...	27,284	...	27,284	...	48,151	...	48,151	3,397	95,572	...	98,969	

*Includes the differences of area irrigated in 1931-35 in Kalat territory.

TABLE
Crop return for

Canal System.	KHARIF.											
	CLASS OF CROPS.											
	Rice.				Jowari.				Bajri.			
	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
	Area in acres.				Area in acres.				Area in acres.			
INUNDATION CANALS—contd.												
BEGARI CANAL.												
Government ..	...	96,581	...	96,581	4,980	24,427	...	29,407	1,144	3,536	...	4,980
Foreign ..	...	140	...	140	6,156	2,052	...	8,208	497	382	...	889
Jagir ...	...	8,632	...	8,632	668	3,468	...	4,151	320	201	...	521
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	...	105,862	...	105,862	11,804	29,962	...	41,766	1,961	4,429	...	0,390
SUKKUR CANAL.												
Government ..	...	1,733	...	1,733	9	648	...	657	1	...	...	1
Jagir ...	...	118	...	118	...	72	...	72	...	...	...	..
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	...	1,851	...	1,851	9	720	...	720	1	...	...	1
CANALS IN ROHRI.												
Government ..	...	3,189	...	3,189	3,681	14,632	...	18,313	1,260	2,307	...	3,627
Foreign ..	...	...	...	...	...	181	...	181	...	...	...	...
Jagir ...	...	395	...	395	127	159	...	286	2	13	...	15
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	...	3,584	...	3,584	3,808	14,772	...	18,760	1,262	2,320	...	3,642
SIND CANAL.												
Government ..	...	33,868	...	33,868	5,343	9,947	...	15,290	22	61	...	83
Jagir ...	...	1,090	...	1,090	217	178	...	395	...	1	...	1
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	...	34,958	...	34,958	5,660	10,125	...	15,685	22	62	...	84
RAJIB CANAL.												
Government ..	...	4,592	...	4,592	215	1,312	...	1,527	...	...	...	...
Jagir ...	...	...	...	...	...	...	...	...	...	...	...	...
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	...	4,592	...	4,592	215	1,312	...	1,527	...	...	...	...
CHITTI CANAL.												
Government ..	...	3,889	...	3,889	156	1,874	...	1,530	...	...	...	..
Jagir ...	...	24	...	24	...	12	...	12	...	...	...	...
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	...	3,913	...	3,913	156	1,886	...	1,542	...	...	...	...

CLASS OF CROPS—*contd.*

104

KHARIF—conold.				Total Kharif.			
CLASS OF CROPS—conold.							
Other crops.							
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
134	4,242	...	4,376	6,258	129,159	...	135,416
194	140	...	343	6,847	2,742	...	9,589
8	291	...	300	994	12,614	...	13,608
...	...	...	...	...	...	...	...
331	4,685	...	5,019	14,099	141,514	...	158,613
...	59	...	59	10	2,440	...	2,450
...	15	...	15	...	205	...	205
...	...	...	...	...	...	...	...
...	74	...	74	10	2,645	...	2,655
192	1,540	...	1,732	6,239	22,423	...	27,661
...	...	...	...	...	181	...	181
...	173	...	173	129	740	...	869
...	...	...	...	...	...	...	...
102	1,713	...	1,975	5,309	23,343	...	28,711
38	4,424	...	4,482	5,414	48,312	...	53,756
..	144	...	144	217	1,413	...	1,630
...	...	...	...	...	...	...	...
38	4,568	...	4,606	5,031	40,755	...	55,386
...	286	...	286	215	6,190	...	6,405
...	2	...	2	...	2	...	2
...	...	...	...	...	...	...	...
...	288	...	288	215	6,192	...	6,407
...	528	...	528	156	5,791	...	5,947
...	17	...	17	...	53	...	53
...	...	...	...	...	...	...	...
...	545	...	545	156	5,844	...	6,000

RABI.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	18,741	...	18,741	...	43	...	42
5	68	...	73	...	...	...	...
...	564	...	564	...	1	...	1
...	8,743	...	8,743	...	20	...	20
5	28,116	...	28,121	...	63	...	63
...	316	...	316	...	...	...	...
...	162	...	162	...	...	...	...
...	71	...	71	...	...	...	...
...	549	...	549	...	...	...	...
8	5,751	...	5,759	...	24	...	24
...	2	...	2	...	...	...	...
...	439	...	439	...	1	...	1
...	819	...	819	...	26	...	26
8	7,011	...	7,119	...	51	...	51
...	4,352	...	4,352	...	29	...	29
...	98	...	98	...	...	...	...
...	360	...	360	...	13	...	13
...	4,810	...	4,810	...	42	...	42
...	518	...	518	...	1	...	1
...	...	...	...	...	...	...	...
...	51	...	51	...	...	...	...
...	569	...	569	...	1	...	1
...	644	...	644	...	4	...	4
...	...	...	...	...	...	...	...
...	78	...	78	...	3	...	3
...	722	...	722	...	7	...	7

CLASS OF CROPS—contd.

Oil-seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Acre. in acres.				Area in acres.			
...	4,772	...	4,772	...	13	...	13
40	97	...	187	...	...	...	...
...	248	...	248	...	...	...	...
...	2,238	...	2,238	...	...	...	...
40	7,355	...	7,395	...	13	...	13
...	18	...	18	...	...	...	...
...	44	...	44	...	...	...	...
...	187	...	187	...	...	...	...
...	249	...	249	...	...	...	...
...	615	...	635	...	...	...	...
...	...	...	...	...	...	...	...
...	2	...	2	...	...	...	...
...	132	...	132	...	...	...	...
...	769	...	769	...	...	...	...
...	659	...	659	...	...	...	...
...	43	...	43	...	...	...	...
...	942	...	942	...	...	...	...
...	1,644	...	1,644	...	...	...	...
...	108	...	108	...	...	...	...
...	...	...	...	...	...	...	...
...	212	...	212	...	...	...	...
...	321	...	320	...	...	...	...
...	73	...	73	...	...	...	...
...	...	...	...	...	...	...	...
...	179	...	179	...	...	...	...
...	253	...	252	...	...	...	...

VII.—*contd.*Sind, 1935-36—*contd.*

RABI—concl'd.								Total Cultivation.				Remarks.
CLASS OF CROPS—concl'd.				Total Rabi.								
Other crops.												
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
...	22,355	...	22,355	...	45,923	...	45,923	6,258	175,081	...	181,339	*Includes the difference of area irrigated in 1931-35 in Kalat Territory.
...	1,068	...	1,068	45	1,231	...	1,276	6,893	3,973	...	*10,865	
...	3,074	...	3,074	...	3,887	...	3,887	994	16,501	...	17,495	
...	70,356	...	70,256	...	81,257	...	81,257	...	81,257	...	81,257	
...	96,751	...	96,751	45	1,2,298	...	132,343	14,144	276,812	...	290,956	
...	289	...	289	...	623	...	623	10	3,063	...	3,073	
...	250	...	250	...	456	...	456	...	661	...	661	
...	1,819	...	1,819	...	2,077	...	2,077	...	2,077	...	2,077	
...	2,358	...	2,358	...	3,156	...	3,156	10	5,801	...	5,811	
...	3,560	...	3,560	3	9,970	...	9,978	5,247	32,392	...	37,639	
...	...	...	...	...	2	...	2	...	183	...	183	
...	26	...	26	...	468	...	468	129	1,208	...	1,337	
...	1,476	...	1,476	...	2,453	...	2,453	...	2,453	...	2,453	
...	5,062	...	5,062	8	12,893	...	12,901	5,376	36,236	...	41,612	
...	9,726	...	9,726	...	14,766	...	14,766	5,414	63,108	...	68,522	
...	2,077	...	2,077	...	2,218	...	2,218	217	3,631	...	3,848	
...	23,093	...	23,093	...	24,408	...	24,408	...	24,408	...	24,408	
...	34,896	...	34,896	...	41,392	...	41,392	5,631	91,147	...	96,778	
...	1,136	...	1,136	...	1,763	...	1,763	215	7,953	...	8,168	
...	...	...	...	...	...	...	...	...	2	...	2	
...	3,505	...	3,505	...	3,768	...	3,768	...	3,768	...	3,768	
...	4,641	...	4,641	...	5,531	...	5,531	215	11,723	...	11,938	
...	1,396	...	1,396	...	2,117	...	2,117	156	7,908	...	8,064	
...	28	...	28	...	28	...	28	...	81	...	81	
...	4,255	...	4,255	...	4,515	...	4,515	...	4,515	...	4,515	
...	5,679	...	5,679	...	6,660	...	6,660	156	12,504	...	12,660	

TABLE
Crop return for

Canal System.	KHARIF.											
	CLASS OF CROPS.											
	Rice.				Jowari.				Bajri.			
	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.				Area in acres.				
INUNDATION CANALS—contd.												
GARANG CANAL.												
Government	...	1,093	...	1,093	...	679	...	679	2	...	...	2
Jagir	...	...	...	...	...	...	...	...	...	...	...	...
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	1,093	...	1,093	...	679	...	679	2	...	...	2
INDUS CANALS, RIGHT BANK—KARACHI CANALS DIVISION.												
Government	...	6,691	...	6,691	22	461	...	483	522	885	...	907
Jagir	...	222	...	222	...	...	...	...	...	...	...	...
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	6,913	...	6,913	22	461	...	483	522	885	...	907
INDUS CANALS, LEFT BANK—KARACHI CANALS DIVISION.												
Government	...	24,802	...	24,802	6	...	...	6	1,195	58	...	1,253
Jagir	...	55	...	55	...	...	...	...	...	...	...	...
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	24,857	...	24,857	6	...	...	6	1,195	58	...	1,253
SATTAR CANAL.												
Government	...	9,939	...	9,939	28	...	...	28	640	...	...	640
Jagir	...	84	...	84	...	...	...	...	1	...	...	1
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	10,023	...	10,023	28	...	...	28	641	...	...	641
BAOCHAR CANAL.												
Government	...	11,194	...	11,194	123	3	...	126	1,770	1,456	...	3,220
Jagir	...	393	...	393	1	...	...	1	801	...	...	891
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	11,590	...	11,590	124	3	...	127	2,161	1,456	...	3,617

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Cotton.				Sugar-cane.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.				Area in acres.			
...	2	...	2	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	2	...	2	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	39	...	...	39	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	39	...	...	39	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	3	...	...	3	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	3	...	...	3	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	64	...	...	64	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	61	...	...	61	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	14	557	...	...	557	...	...	...	...
...	...	...	...	3	...	...	3	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	14	560	...	...	560	...	...	...	...

KHARIF—concl'd.				Total Kharif.			
CLASS OF CROPS—concl'd.							
Other crops.							
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	149	...	148	2	1,022	...	1,024
...	1	...	1	...	1	...	1
...	...	...	...	...	...	...	...
...	149	...	149	2	1,023	...	1,025
46	201	...	337	629	7,828	...	8,457
...	...	...	...	...	222	...	222
...	...	...	...	...	...	...	...
40	291	...	337	629	8,050	...	8,679
74	174	...	248	1,278	25,034	...	26,312
...	...	...	...	...	55	...	55
...	...	...	...	...	...	...	...
74	174	...	248	1,278	25,089	...	26,367
20	51	...	71	752	9,090	...	10,742
3	...	...	3	4	84	...	88
...	...	...	...	...	...	...	...
23	51	...	74	756	10,074	...	10,830
179	395	...	574	2,043	13,048	...	15,091
81	50	...	81	426	446	...	872
...	...	...	...	...	...	...	...
210	445	...	655	3,060	13,494	...	16,553

RABL.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
25	423	...	448	...	1	...	1
...	...	...	...	...	...	...	...
...	83	...	33	...	...	...	...
25	456	...	481	...	1	...	1
...	1,500	...	1,500	...	630	...	630
...	7	...	7	...	11	...	11
...	375	...	375	6	320	...	326
...	1,882	...	1,882	6	981	...	987
...	200	...	200	...	633	...	633
...	70	...	70	...	26	...	26
...	...	...	...	...	...	...	...
...	270	...	270	...	659	...	659
...	309	...	309	...	92	...	92
...	19	...	19	...	...	...	...
...	149	...	149	...	40	...	40
...	477	...	477	...	132	...	132
...	236	...	236	...	683	...	683
...	4	...	4	...	82	...	82
9	52	...	61	38	317	...	355
9	292	...	301	38	1,082	...	1,120

CLASS OF CROPS—contd.

Oil-seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	23	...	23	...	...	...	...
...	...	...	...	...	...	...	...
...	47	...	47	...	...	...	...
...	70	...	70	...	...	...	...
...	200	...	200	...	...	...	...
...	...	...	...	...	...	...	...
...	126	...	126	...	...	...	...
...	326	...	326	...	...	...	...
...	1,104	...	1,140	...	...	...	...
...	...	...	...	...	...	...	...
...	86	...	86	...	...	...	...
...	1,140	...	1,140	...	...	...	...
...	21	...	21	...	...	...	...
...	...	...	...	...	...	...	...
...	67	...	67	...	...	...	...
...	88	...	88	...	...	...	...
...	60	...	60	...	...	...	...
...	...	...	...	...	...	...	...
...	5	...	5	...	...	...	...
...	65	...	65	...	...	...	...

VII—contd.

Sind, 1935-36—contd.

RABI—concd.												Remarks.
CLASS OF CROPS—concd.				Total Rabi.				Total Cultivation.				
Other crops.												
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
...	372	...	372	25	819	...	844	27	2,741	...	2,768	
...	...	...	...	...	...	...	...	...	1	...	1	
...	1,518	...	1,518	...	1,598	...	1,598	...	1,598	...	1,598	
...	1,890	...	1,890	25	2,417	...	2,442	27	4,340	...	4,367	
...	1,600	...	1,600	...	3,930	...	3,930	629	11,758	...	12,387	
...	16	...	16	...	34	...	34	...	256	...	256	
32	903	...	935	28	1,724	...	1,762	39	1,724	...	1,762	
32	2,519	...	2,551	33	5,688	...	5,726	667	13,738	...	14,405	
...	539	...	539	...	2,476	...	2,476	1,278	27,510	...	28,788	
...	...	...	...	...	96	...	96	...	151	...	151	
...	864	...	864	...	900	...	900	...	900	...	900	
...	1,403	...	1,403	...	3,472	...	3,472	1,278	28,561	...	29,839	
...	40	...	40	...	462	...	462	752	10,452	...	11,204	
...	12	...	12	...	31	...	31	4	115	...	119	
...	677	...	677	...	933	...	933	...	933	...	933	
...	729	...	729	...	1,426	...	1,426	756	11,500	...	12,256	
134	934	...	1,068	134	1,913	...	2,047	2,777	14,961	...	17,738	
...	261	...	261	...	347	...	347	426	793	...	1,219	
170	2,355	...	2,534	226	2,729	...	2,955	226	2,729	...	2,955	
313	3,550	...	3,863	360	4,989	...	5,349	3,429	18,483	...	21,912	



TABLE
Crop Return for

Canal System.	KHARIF.											
	CLASS OF CROPS.											
	Rice.				Jowari.				Bajri.			
	Lift.	Flow.	Spill except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
	Area in acres.				Area in acres.				Area in acres.			
INUNDATION CANALS--contd.												
PINYARI CANAL.												
Government	...	70,271	...	70,271	834	54	...	888	1,255	12	...	1,267
Jagir	...	1,668	...	1,668	...	...	...	...	54	...	...	54
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	71,939	...	71,939	834	54	...	888	1,309	12	...	1,321
FULELI CANAL.												
Government	...	149,230	...	149,230	505	333	...	838	4,264	9,439	...	13,703
Jagir	...	33,856	...	33,856	141	112	...	253	262	5,579	...	5,841
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	183,086	...	183,086	646	445	...	1,091	4,526	15,018	...	19,544
OTHER CANALS IN FULELI CANALS DIVISION.												
Government	...	9,847	...	9,847	...	73	...	73	585	4,345	...	4,930
Jagir	...	1,509	...	1,509	...	8	...	8	...	721	...	721
Dubari	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	11,356	...	11,356	...	81	...	81	585	5,066	...	5,651
Total Inundation Canals	...	539,792	...	539,792	30,372	145,978	...	176,350	20,887	54,100	...	74,987
Total Productive	47	1,076,829	...	1,076,876	68,343	317,109	...	885,512	46,032	183,001	...	229,633

KHARIF—contd.

CLASS OF CROPS—contd.

Cotton.				Sugar-cane.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.				Area in acres.			
5	...	...	5	18	...	...	18	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	5	18	...	...	18	...	...	...	...
340	2,150	...	2,490	70	77	...	147	...	2	...	2
39	759	...	798	...	69	...	69	21	498	...	459
...	...	...	...	...	...	...	...	...	...	...	...
379	2,909	...	3,288	70	146	...	216	21	440	...	461
...	31	...	31	...	...	...	...	...	...	...	...
...	205	...	205	...	...	...	...	...	15	...	15
...	...	...	...	...	...	...	...	...	...	...	...
...	236	...	236	...	...	...	...	...	15	...	15
515	5,385	...	5,900	754	150	...	904	21	495	...	516
46,539	719,969	...	766,508	845	2,697	...	3,542	21	886	...	867

KHARIF— <i>concl'd.</i>				Total Kharif.			
CLASS OF CROPS— <i>concl'd.</i>							
Other crops.							
Lift.	Flow	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres,				Area in acres.			
73	904	...	977	2,185	71,241	...	73,426
...	38	...	38	54	1,708	...	1,760
...	...	...	...	...	...	...	...
73	943	...	1,015	2,239	72,947	...	75,186
1,477	1,084	...	2,561	6,656	162,315	...	168,971
...	1	...	1	463	40,814	...	41,277
...	..	...	...	...	...	...	...
1,477	1,085	...	2,562	7,119	203,129	...	210,248
1	57	...	58	586	14,853	...	14,939
...	...	...	...	...	2,458	...	2,458
...	...	...	...	...	...	...	...
1	57	...	58	586	16,811	...	17,397
2,644	24,429	...	27,073	55,193	770,329	...	825,522
8,400	80,667	...	89,007	170,827	2,381,168	...	2,551,995

RABI.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	572	...	572	...	1,532	...	1,532
...	41	...	41	...	5	...	5
...	136	...	136	...	259	...	259
...	749	...	749	...	1,796	...	1,796
518	1,523	...	2,041	162	157	...	319
...	332	...	332	...	2	...	2
458	369	...	827	...	138	...	138
976	2,224	...	3,200	162	297	...	459
...	284	...	284	...	6	...	6
...	12	...	12	...	45	...	45
...	61	...	61	...	8	...	8
...	357	...	357	...	59	...	59
1,035	92,426	...	93,461	206	5,188	...	5,392
67,382	907,563	12,822	987,767	847	9,817	279	10,943

CLASS OF CROPS—*contd.*

Oil-seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	9,523	...	9,523	...	...	...	...
...	155	...	155	...	...	...	...
...	623	...	623	...	...	...	...
...	10,301	...	10,301	...	...	...	...
...	20,872	...	20,872	...	2,001	...	2,001
...	5,007	...	5,007	...	598	...	598
3	389	...	389	...	...	...	...
3	26,065	...	26,065	...	2,599	...	2,599
...	399	...	399	...	17	...	17
...	100	...	100	...	...	...	...
...	44	...	44	...	...	...	...
...	543	...	543	...	17	...	17
43	69,231	...	69,274	...	2,661	...	2,661
1,728	159,413	2,817	154,958	1	9,803	...	9,804

VII—*contd.*

Sind 1935-36—*contd.*

RABI—concl'd.												Remarks.
CLASS OF CROPS—concl'd.				Total Rabi.				Total cultivation.				
Other crops.												
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
...	673	...	673	...	12,300	...	12,300	2,185	83,541	...	85,726	
...	25	...	25	...	226	...	226	54	1,932	...	1,986	
...	2,735	...	2,735	...	3,753	...	3,753	...	3,753	...	3,753	
...	3,433	...	3,433	...	16,279	...	16,279	2,239	89,226	...	91,465	
556	2,010	...	2,566	1,236	26,363	...	27,599	7,892	188,678	...	196,570	
27	305	...	332	27	6,244	...	6,271	490	47,058	...	47,548	
304	1,521	...	1,825	765	2,414	...	3,179	765	2,414	...	3,179	
887	3,836	...	4,723	2,028	35,021	...	37,049	9,147	238,150	...	247,297	
...	202	...	202	...	908	...	908	586	15,261	...	15,847	
...	12	...	12	...	169	...	169	...	2,627	...	2,627	
...	374	...	374	...	487	...	487	...	487	...	487	
...	588	...	588	...	1,564	...	1,564	588	18,375	...	18,961	
1,237	241,651	...	242,888	2,521	411,155	...	413,676	57,714	1,181,484	...	1,239,198	
3,799	471,115	4,329	479,243	73,757	1,548,711	20,247	1,642,715	244,584	3,929,879	20,247	4,194,710	

TABLE
Crop Return for

Canal System.	KHARIF.											
	CLASS OF CROPS.											
	Rice.				Jowar.				Bajri.			
	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
	Area in acres.				Area in acres.				Area in acres.			
II--UN- PRODUCTIVE.												
INUNDATION CANALS.												
MARI WAH.												
Government ...	...	10,581	...	10,681	7,897	14,399	...	22,296	4,624	3,123	...	7,747
Jagir ...	...	28	...	28	...	18	...	18	...	1	...	1
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	10,609	...	10,609	7,897	14,417	...	22,314	4,624	3,124	...	7,748
KALSI CANAL.												
Government ...	...	7,424	...	7,424	379	10	...	389	2,737	166	...	2,903
Jagir ...	...	315	...	315	...	...	...	...	24	3	...	27
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	7,739	...	7,739	379	10	...	389	2,761	169	...	2,930
HASSANALI CANAL.												
Government ...	...	12,608	...	12,608	...	125	...	125	666	2,000	...	2,666
Jagir ...	...	442	...	442	...	20	...	20	...	381	...	381
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	13,050	...	13,050	...	145	...	145	666	2,381	...	3,047
Total II, Unpro- ductive.	...	31,398	...	31,398	8,276	14,572	...	22,848	8,051	5,674	...	13,725

KHARIF—contd.

CLASS OF CROPS—contd.

Cotton.				Sugar-cane.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.				Area in acres.			
474	2,347	...	2,821	...	...	...	...	...	...	...	...
...	7	...	7	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
474	2,354	...	2,828	...	...	...	...	...	...	...	...
...	...	...	...	10	...	...	10	...	...	...	...
...	...	...	...	1	...	...	1	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	11	...	...	11	...	...	...	...
...	30	...	30	35	...	...	35	...	...	...	...
...	7	...	7	...	1	...	1	...	15	...	15
...	...	...	...	...	...	...	...	...	...	...	...
...	37	...	37	35	1	...	36	...	15	...	15
474	2,391	...	2,865	46	1	...	47	...	15	...	15

KHARIF—concl'd.				Total kharif.			
CLASS OF CROPS—concl'd.							
Other crops.							
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
406	1,607	...	2,013	13,401	32,057	...	45,458
...	2	...	2	...	56	...	56
...	...	...	...	...	...	...	...
406	1,609	...	2,015	13,401	32,113	...	45,514
529	35	...	564	3,655	7,635	...	11,290
4	...	...	4	20	318	...	347
...	...	...	...	...	...	...	...
533	35	...	568	3,694	7,953	...	11,637
...	113	...	113	701	14,876	...	15,577
...	...	...	...	...	866	...	866
...	...	...	...	...	...	...	...
...	113	...	113	701	15,742	...	16,443
930	1,757	...	2,696	17,786	55,808	...	73,594

RABI.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	6,391	...	6,391	...	27	...	27
...	3	...	3	...	...	...	..
...	673	...	673	...	11	...	11
...	7,067	...	7,067	...	38	...	38
...	17	...	17	...	346	...	346
...	22	...	22	...	11	...	11
120	185	...	305	62	660	...	722
120	224	...	344	62	1,017	...	1,079
...	3	...	3	...	...	...	...
...	...	...	...	...	...	...	...
..	4	..	4	...	...	...	...
...	7	...	7	...	...	...	...
120	7,298	...	7,418	62	1,055	...	1,117

RABI—contd.

CLASS OF CROPS—contd.

Oil-Seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	473	.	473	...	...	...	...
...	2	...	2	...	...	...	...
...	467	...	467	...	...	...	...
...	942	...	942	...	...	...	...
...	133	...	133	...	...	...	...
...	16	...	16	...	...	...	...
...	60	...	60	...	...	...	...
...	209	...	209	...	...	...	...
...	553	...	553	...	49	..	49
...	...	...	...	...	...	...	...
...	63	...	63	...	...	...	...
...	616	...	616	...	49	...	49
...	1,767	...	1,767	...	49	...	49

VII—*contd.*Sind 1935-36—*contd.*

RABI—concl.								Total cultivation.				Remarks.
CLASS OF CROPS—concl.				Total Rabi.								
Other crops.												
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
...	4,082	...	4,082	...	10,973	...	10,973	13,401	43,030	...	56,431	
...	34	...	34	...	39	...	39	...	95	...	95	
...	8,444	...	8,444	...	9,595	...	9,595	...	9,595	...	9,595	
...	12,560	...	12,560	...	20,607	...	20,607	13,401	52,720	...	66,121	
6	469	...	495	6	985	...	991	3,661	8,620	...	12,281	
...	66	...	66	...	115	...	115	29	433	...	462	
99	817	...	916	281	1,722	...	2,003	281	1,722	...	2,003	
105	1,372	...	1,477	287	2,822	...	3,109	3,971	10,775	...	14,746	
...	11	...	11	...	616	...	616	701	15,492	...	16,193	
...	...	...	...	...	...	...	...	...	866	...	866	
...	37	...	37	...	104	...	104	...	104	...	104	
...	48	...	48	...	720	...	720	701	16,462	...	17,163	
105	13,980	...	14,085	287	24,149	...	24,436	18,073	79,957	...	98,030	

KHARIF—contd.

CLASS OF CROPS—contd.

[illegible]

KHARIF— concl'd.				Total Kharif.			
CLASS OF CROPS— concl'd.							
Other Crops.							
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
3	219	...	222	337	1,692	...	2,029
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
3	219	...	222	337	1,692	...	2,029
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	398	...	398	...	1,830	...	1,830
...	17	...	17	...	1,597	...	1,597
...	...	...	...	...	...	...	...
...	415	...	415	...	3,477	...	3,477
...	...	...	...	...	...	...	...
...	16	...	16	...	16	...	16
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	16	...	16	...	16	...	16
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

CLASS OF CROPS—*contd.*

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	2,245	...	2,245	...	7	...	7
...	...	...	...	...	...	...	...
...	10	...	10	...	...	...	...
...	2,255	...	2,255	...	7	...	7
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	297	...	297	...	...	...	...
...	32	...	32	...	...	...	...
...	61	...	61	...	...	...	...
...	390	...	390	...	...	...	...
...	119	...	119	...	...	...	...
...	60	...	60	...	...	...	...
...	23	...	23	...	1	...	1
...	202	...	202	...	1	...	1
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

CLASS OF CROPS—contd.

Oil-Seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	...	...	...	...	...	...	...
...	254	...	254	...	...	...	...
...	...	...	...	...	...	...	...
...	2	...	2	...	...	...	...
...	256	...	256	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	78	...	78	...	...	...	...
...	333	...	333	...	...	...	...
...	249	...	249	...	...	...	...
...	660	...	660	...	...	...	...
...	...	...	...	...	...	...	...
...	27	...	27	...	...	...	...
...	3	...	3	...	...	...	...
...	30	...	30	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

TABLE
Crop return for

Canal System.	KHARIF.											
	CLASS OF CROPS.											
	Rice.				Jowari.				Bajri.			
	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
	Area in acres.				Area in acres.				Area in acres.			
15.—OTHER REVENUE EXPENDITURE, &c.— <i>contd.</i>												
CANALS NORTH OF KOTHI.												
Government ...	...	408	...	1408	848	495	...	1,343	2,287	37	...	...
Jagir ...	...	209	...	209	5	...	...	5	272	...	...	...
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	797	...	797	853	495	...	1,348	2,559	37	...	2,596
BUNDS, RIGHT BANK.												
Government ...	...	2,471	...	2,471	...	...	...	...	119	80	...	149
Jagir ...	...	58	...	58	...	...	...	...	11	...	...	11
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	2,529	...	2,529	...	...	...	...	130	80	...	160
BUNDS, LEFT BANK.												
Government ...	...	440	...	440	...	2	...	2	...	2	...	2
Jagir ...	...	50	...	50	...	...	...	...	...	...	...	...
Dubari ...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	490	...	490	...	2	...	2	...	2	...	2
Total, 15—Neither...	...	6,587	...	6,587	856	1,557	...	2,413	3,020	760	...	3,779
Total for Sind ...	47	1,114,814	...	1,114,801	77,475	333,208	...	410,773	57,703	180,434	...	247,137

CLASS OF CROPS—contd.

Cotton.				Sugar-cane.				Babul plantation.			
Lift	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.				Area in acres.			
19	...	...	19	...	...	...	...	...	...	...	...
1	...	...	1	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	20	...	...	...	...	...	...	...	...
7	...	...	7	42	...	...	42	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	7	42	...	...	42	...	...	...	...
...	...	...	...	...	5	...	5	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	5	...	5	...	...	...	...
27	14	...	41	42	5	...	47	...	...	...	...
47,040	722 374	...	769,414	933	2,703	...	3,636	21	851	...	872

KHAIRIF—concl'd.				Total Kharif.			
CLASS OF CROPS—concl'd.							
Other Crops.							
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
20	...	...	20	3,174	1,030	...	4,204
1	...	...	1	279	299	...	578
...	...	...	...	...	...	...	...
21	...	...	21	3,453	1,329	...	4,782
7	...	...	7	175	2,501	...	2,676
...	...	...	...	11	58	...	69
...	...	...	...	...	...	...	...
7	...	...	7	186	2,559	...	2,745
...	3	...	3	...	452	...	452
...	5	...	5	...	55	...	55
...	...	...	...	...	...	...	...
...	8	...	8	...	507	...	507
31	658	...	689	3,976	9,580	...	13,556
9,370	83,082	...	92,452	192,589	2,446,556	...	2,639,145

RABI.

CLASS OF CROPS.

Wheat.				Barley.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	767	...	767	...	...	...	...
1	168	...	169	...	...	...	...
...	44	...	44	...	...	...	...
1	979	...	980	...	...	...	...
...	...	...	...	...	73	...	73
...	16	...	16	...	19	...	19
12	7	...	19	28	84	...	112
12	23	...	35	28	176	...	204
...	...	...	...	...	56	...	56
...	5	...	5	...	9	...	9
...	...	...	...	...	17	...	17
...	5	...	5	...	82	...	82
13	3,854	...	3,867	28	266	...	294
67,515	918,715	12,822	999,052	937	11,138	279	12,354

CLASS OF CROPS—contd.

Oil-seeds.				Babul plantation.			
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.
Area in acres.				Area in acres.			
...	144	...	144	...	34	...	34
2	35	...	37	...	...	...	...
...	4	...	4	...	...	...	...
2	183	...	185	...	34	..	34
...	14	...	14	...	...	...	...
...	...	...	...	...	...	...	...
...	1	...	1	...	...	...	...
...	15	...	15	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
2	1,144	...	1,446	...	34	...	34
1,730	153,324	2,817	157,871	1	9,886	...	9,887

VII—concl'd.

Sind, 1935-36—concl'd.

RABI—concl'd.								Total cultivation.				Remarks.
CLASS OF CROPS—concl'd.				Total Rabi.								
Other crops.												
Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	Lift.	Flow.	Spill, except from Govt. canals.	Total.	
Area in acres.				Area in acres.				Area in acres.				
...	284	...	284	...	1,229	...	1,229	3,174	2,259	...	5,433	
...	16	...	16	3	219	...	222	282	518	...	800	
1	16	...	17	1	64	...	65	1	64	...	65	
1	316	...	317	4	1,512	...	1,516	3,457	2,841	...	6,298	
..	92	...	92	...	179	...	179	175	2,680	...	2,855	
...	1	...	1	...	36	...	36	11	94	...	105	
19	157	...	176	59	249	...	308	59	249	...	308	
19	250	...	269	59	464	...	523	245	3,023	...	3,268	
...	47	...	47	...	103	...	103	...	555	...	555	
...	50	...	50	...	64	...	64	...	119	...	119	
...	6	...	6	...	23	...	23	...	23	...	23	
...	103	...	103	...	190	...	190	...	697	...	697	
20	4,461	...	4,461	63	8,759	...	9,822	4,039	19,339	...	23,378	
3,924	489,556	4,329	497,809	74,107	1,582,619	20,247	1,676,973	266,696	4,029,175	20,247	4,316,118	

A. GORDON.

TABLE VIII.
Rainfall in Sind for the year 1935-36.

Collectorates and divisions.	April 1935.	May 1935.	June 1935.	July 1935.	August 1935.	September 1935.	October 1935.	November 1935.	December 1935.	January 1936.	February 1936.	March 1936.	Total 1935-36.	Total as per last year.
	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 COLLECTORATE.														
Begari Canals, Khirtar and North-Western Canals Division—														
Kashmore ...	0 08	...	...	1 18	0 40	...	...	...	...	...	0 35	0 58	2 59	3 07
Kandhkot ...	0 30	...	...	2 77	...	...	...	...	...	...	0 99	0 34	4 40	2 63
Jacobabad ...	0 29	...	...	0 90	1 46	...	...	...	...	0 04	0 56	0 27	3 52	8 37
Thul ...	0 35	...	...	1 00	0 02	...	...	...	...	0 07	0 70	1 11	3 25	7 16
Garhi Khairo ...	0 63	0 01	...	0 70	2 37	...	0 02	...	...	0 07	0 92	0 22	4 94	6 70
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	3 74	5 59
Mean average of 10 years										...	...	...	3 84	4 0
SUKKUR COLLECTORATE.														
Shikarpur Canals, Barage, Northern Dadu, Begari Canals, North-Western Canals, Rice Canal and Warah Division—														
Ubauro ...	0 07	...	...	2 84	...	...	...	...	...	0 06	0 22	0 37	3 56	4 34
Mirpur Mathelo ...	0 08	...	...	2 60	1 10	...	...	...	...	0 03	0 42	0 25	4 48	5 38
Ghotki ...	0 08	...	...	1 76	...	...	...	...	...	0 02	0 20	0 16	2 22	3 27
Rohri ...	0 46	...	...	0 02	...	...	...	...	...	...	0 67	0 12	1 27	4 66
Sukkur ...	1 15	...	...	0 03	...	...	...	...	...	...	0 41	0 13	1 72	5 74
Shikarpur ...	...	...	...	...	...	...	...	...	...	...	0 53	0 15	0 66	not recorded.
Garhi Yasin ...	0 20	0 01	...	0 78	0 30	...	...	...	...	0 18	0 72	0 09	2 28	4 23
Pano Akil ...	0 06	...	...	1 42	...	...	...	...	...	0 01	0 23	0 13	1 85	4 81
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	2 25	4 05
Mean average of 10 years										...	...	...	3 95	4 14
LARKANA COLLECTORATE.														
North-Western Canal, Warah, Rice, Northern Dadu, Khirtar, Begari, and Manchar Drainage Divisions—														
Ratodero ...	0 12	...	...	0 05	...	...	0 07	...	...	0 17	0 24	0 45	1 10	6 83
Larkana ...	0 28	...	...	0 20	0 07	...	...	...	...	0 03	0 29	0 11	0 98	5 22
Labdarya ...	1 42	...	...	0 84	0 11	...	0 19	...	...	0 04	0 28	0 31	3 19	3 36
Shahdadkot ...	0 30	...	...	0 51	1 21	...	0 06	...	...	0 30	0 50	0 21	3 09	5 46
Warah ...	1 73	...	0 05	1 02	0 11	...	0 03	...	...	0 12	0 53	0 35	3 94	4 38
Kambar ...	0 50	...	...	0 34	0 05	...	0 24	...	...	0 03	0 83	0 47	2 46	5 66
Mirokhan ...	0 41	...	...	0 75	...	...	0 08	...	...	0 16	0 53	0 26	2 19	6 42
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	2 42	5 33
Mean average of 10 years										...	...	...	4 69	4 99
KARACHI COLLECTORATE.														
Karachi Buildings, Karachi Canals and Southern Dadu Divisions—														
Karachi ...	1 47	...	...	0 39	0 26	0 02	...	...	...	0 05	0 75	0 07	3 01	10 13
Mirpur Sakro ...	0 75	...	...	6 44	...	...	0 07	...	0 20	...	1 17	...	8 63	12 71
Ghorabari ...	0 83	...	...	2 37	0 30	...	...	...	0 18	...	0 04	...	3 72	11 77
Ketibandar ...	1 29	...	...	4 59	0 44	...	0 27	...	...	...	0 10	...	6 68	7 10
Shahbandar ...	1 23	...	...	8 92	0 99	0 09	...	...	...	...	0 32	...	11 55	5 66
Jati ...	0 61	...	...	5 50	1 10	0 20	0 25	...	...	...	0 27	...	7 93	10 64
Sujawal ...	0 20	...	...	2 52	0 33	0 06	0 02	...	...	...	0 79	...	3 92	5 96
Mirpur Bathoro ...	0 11	...	...	2 50	0 47	0 62	0 01	...	...	...	0 22	...	3 93	5 98
Tatta ...	1 60	...	...	4 44	...	...	...	...	...	...	0 95	...	6 99	9 83
Jherruck ...	0 19	...	...	4 61	0 28	0 13	...	...	...	...	0 03	...	5 24	7 24
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	6 16	8 70
Mean average of 10 years										...	...	...	8 60	8 41

TABLE VIII—concl'd.

Collectorates and divisions.	April 1935.	May 1935.	June 1935.	July 1935.	August 1935.	September 1935.	October 1935.	November 1935.	December 1935.	January 1936.	February 1936.	March 1936.	Total 1935-36.	Total as per last year.
	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.
THAR PARKAR COLLECTORATE.														
Northern Jamrao, Southern Jamrao, Mithrao, and Thar Divisions—														
Mirpurkhas ...	1 09	...	0 40	5 46	0 13	0 30	...	...	...	...	0 12	...	7 50	5 23
Jamesabad ...	1 18	...	...	3 85	0 71	...	...	...	...	...	0 04	0 26	6 04	6 67
Digri ...	...	...	...	4 46	0 80	0 16	...	...	...	...	...	...	5 42	7 54
Diplo ...	...	...	...	4 71	0 48	0 87	...	...	...	...	...	0 07	6 13	8 94
Mithi ...	0 37	...	0 60	6 21	1 24	0 71	...	...	...	...	...	...	9 13	8 27
Nagar Parkar ...	0 26	1 05	0 42	7 71	1 92	0 54	...	...	...	...	...	...	11 90	16 03
Chachro ...	0 31	...	...	9 57	2 46	0 22	0 20	...	...	...	...	0 08	12 84	7 47
Umarkot ...	0 04	...	...	2 52	1 43	1 16	...	...	...	...	0 12	...	5 27	9 61
Khipro ...	0 40	...	...	2 30	0 15	0 42	...	...	...	...	0 07	0 26	3 60	5 28
Sanghar ...	...	...	...	6 38	...	...	...	...	...	...	...	0 10	6 48	11 14
Samaro (Pithoro) ...	3 3	...	...	3 62	1 41	0 23	...	...	...	...	...	...	5 59	8 25
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	7 26	8 58
Mean average of 10 years ...													11 81	11 55
NAWABSHAH COLLECTORATE.														
Johri, Nasrat, Dad, Hala and Northern Jamrao Canals Divisions—														
Tharushah ...	0 51	...	...	1 07	2 50	...	...	...	...	...	0 72	...	4 80	5 85
Kandiara ...	0 62	...	...	0 45	2 81	...	...	...	...	...	0 05	0 30	4 23	4 86
Naushahro ...	0 02	...	...	1 50	2 30	...	...	...	...	...	0 35	...	4 17	8 29
Sakrand ...	...	...	...	6 50	0 01	...	...	...	...	...	0 26	0 69	7 46	6 21
Moro ...	0 03	...	...	0 07	1 13	...	...	...	...	...	0 64	0 44	2 31	7 34
Nawabshah ...	0 21	...	...	1 71	0 15	...	...	...	...	...	0 15	0 16	2 38	9 07
Shahdampur ...	0 10	...	...	1 63	0 24	...	...	...	...	...	0 05	0 07	2 09	5 95
Tando Adam ...	0 40	...	...	4 55	...	...	...	...	...	...	0 15	0 06	5 16	5 50
Sinjhoro ...	...	0 06	...	5 52	0 25	0 50	...	...	...	...	...	...	6 33	6 67
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	4 33	6 64
Mean average of 10 years ...													6 60	6 69
HYDERABAD COLLECTORATE.														
Hyderabad, Fuleli, Hala and Nasir Divisions—														
Hyderabad ...	0 03	...	...	2 64	...	...	...	...	...	...	0 03	...	2 70	8 63
Dero Mahbat ...	...	...	...	4 65	0 35	0 42	...	...	...	...	0 26	...	5 68	6 59
Tando Bago ...	0 02	...	...	4 47	1 43	2 20	0 09	...	...	...	0 36	...	8 57	11 57
Badin ...	...	...	...	2 68	1 19	2 25	0 25	...	...	...	0 50	...	6 78	9 74
Tando Muhammad-khan (Guni). ...	0 02	...	...	5 91	0 17	...	0 03	...	...	...	0 10	0 05	6 28	4 79
Hala ...	0 33	...	...	4 07	...	...	...	...	...	...	0 10	0 12	4 62	5 66
Tando Allahyar ...	0 41	...	...	3 93	...	...	...	...	...	...	0 09	...	4 43	3 00
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	5 58	7 14
Mean average of 10 years ...													9 86	9 58
DADU COLLECTORATE.														
Warah, Rice, Northern Dadu, Southern Dadu, Manchar Drainage, Karachi Buildings and Karachi Canals Divisions—														
Mehar ...	1 11	...	0 01	1 59	0 05	...	0 04	...	...	0 03	0 56	0 12	3 51	3 81
Dadu ...	...	0 05	0 53	0 51	0 97	...	...	...	...	0 04	0 94	0 30	3 34	6 47
Johi ...	0 15	0 31	0 15	1 29	0 40	...	...	...	...	...	1 59	0 13	4 02	6 78
Sehwan ...	0 08	0 18	...	1 28	0 30	...	...	...	...	...	0 79	0 04	2 67	4 30
Khairpur Nathan-shah (Kakar). ...	0 38	...	0 15	0 65	0 07	...	0 05	...	0 05	...	0 90	...	2 25	3 38
Kotri ...	0 06	...	...	2 71	...	...	...	...	...	...	0 10	0 07	2 94	7 54
Mahal Kohistan ...	0 22	...	...	6 75	0 12	0 18	...	...	...	...	0 37	0 14	7 78	7 75
Average ...	...	...	...	...	...	...	...	...	...	...	...	...	3 79	5 72
Mean average of 10 years ...													5 73	6 00
Mean average of 10 years for Sind. ...													6 88	6 92

A. GORDON,
Chief Engineer in Sind.

Statement showing the amount of loss to canals on account of difference between the assessment of water rates on Jagir Lands and assessment at the ordinary rates for Government Lands for the year 1935-36.

Serial No.	Name of Canal.	To end of 1934-35.	During 1935-36.	To end of 1935-36.	Remarks.
	PRODUCTIVE.	Rs.	Rs.	Rs.	
1	Alibahar Canal ...	1,46,223	...	1,46,223	
2	Sarfrazwah ...	4,62,762	...	4,62,762	
3	Ghar Canal ...	17,66,356	...	17,66,356	
4	Great Marekh Canal ...	9,17,645	...	9,17,645	
5	Sukkur Canal...	2,98,329	1,291	2,99,620	
6	Unherwah ...	47,448	7,923	55,371	
7	Begari Canal ...	33,27,696	59,807	33,87,503	
8	Desert Canal ...	33,02,504	38,272	33,40,776	
9	Fuleli Canal ...	81,36,576	1,69,357	83,05,933	
10	Suttah Canal ...	7,357	263	7,620	
11	Nanlakhi Canal ...	42,957	...	42,957	
12	Pinyari Canal...	92,508	4,425	96,933	
13	Indus Canals Right Bank ...	18,777	190	18,967	
14	Indus Canals Left Bank...	4,587	64	4,651	
15	Sind Canal and Branches ...	97,187	7,789	1,04,976	
16	Rajib Chitti and Garang...	15,475	...	15,475	
17	Canals in Rohri ...	2,07,625	209	2,07,834	
18	Western Nara and Pritchard ...	3,12,941	...	3,12,941	
19	Phitta Canal ...	7,853	...	7,853	
20	Gharo Mahmudo ...	3,27,744	...	3,27,744	
21	Kari Shumali...	99,830	...	99,830	
22	Nasirwah ...	20,009	...	20,009	
23	Indus Canals (other canals in Fuleli Canals Division).	70,489	5,616	76,105	
24	Dambhrowah ...	19,248	...	19,248	
25	Marviwah ...	184	...	184	
26	Baghar Canal ...	1,39,687	1,819	1,41,506	
27	Dadu Canal ...	4,576	...	4,576	
28	Lloyd Barrage and Canals Construction.	9,86,726	3,14,701	13,01,427	
29	Garkinowah ...	...	...	...	
	Total, Productive ...	2,08,81,299	6,11,726	2,14,93,025	

Serial No.	Name of Canal.	To end of 1934-35.	During 1935-36.	To end of 1935-36.	Remarks.
		Rs.	Rs.	Rs.	
	Brought forward ...	2,08,81,299	6,11,726	2,14,93,025	
30	UNPRODUCTIVE.				
31	Eastern Nara Works ...	8,87,771	10,952	8,98,723	
32	Jamrao Canal ...	5,66,711	45,951	6,12,662	
33	Hassanaliwah ...	53,232	1,953	55,185	
34	Dad Canal ...	5,55,940	...	5,55,940	
35	Nasrat Canal ...	45,864	...	45,864	
36	Seharwah ...	828	...	828	
37	Kalri Canal ...	25,700	973	26,733	
	Mahiwah ...	1,23,707	...	1,23,707	
	Total Unproductive ...	22,59,813	59,829	23,19,642	
	Grand Total Works from which Capital Accounts are kept ...	2,31,41,112	6,71,555	2,38,12,667	
	Works for which neither Capital nor Revenue Accounts are kept.	Rs.	Rs.	Rs.	
1	Begari Canals Division ...	...	...	...	
2	Karachi Canals Division ...	...	...	...	
3	Western Nara Division ...	...	...	...	
4	Nasrat Canal Division ...	...	...	...	
5	Shikarpur Canals Division ...	...	...	...	
6	Manchar Drainage Division ...	...	2,858	...	
	Total XIV ...	...	2,858	...	
	Grand Total ...	...	6,74,413	...	

E. W. GRINDAL,
Comptroller, Sind.

Statement showing actual Receipts during 1935-36 on account of Irrigation share of Land Revenue from canals in Sind.

Name of Canal	Gross Irrigation share of Land Revenue.	Name of Canal	Gross Irrigation share of Land Revenue.
	Rs.		Rs.
Works for which Capital Accounts are kept.		Works for which neither Capital nor Revenue Accounts are kept.	
PRODUCTIVE.			
1. Lloyd Barrage Canals ...	99,55,334	1. Kashmore Bund ...	6,329
2. Desert Canal ...	1,97,466	2. Bunds in Rohri ...	...
3. Unherwah ...	1,78,326	3. Sukkur-Begari Bund ...	11,600
4. Begari Canal... ..	5,26,040	4. Kasimpur Bund ...	
5. Sukkur Canal ...	11,685	5. Canals North of Kotri ...	8,909
6. Canals in Rohri ...	86,393	6. Bunds, Right Bank ...	2,750
7. Sind Canal ...	2,34,989	7. Bunds, Left Bank ...	187
8. Rajib, Chitti and Garang ...	73,790		
9. Indus Canals Right Bank ...	14,207	Total, 15. Neither ...	29,775
10. Indus Canals Left Bank ...	29,576		
11. Pinyari Canal... ..	1,09,822	Grand Total for Sind ...	1,20,59,065
12. Baghar Canal... ..	21,704		
13. Sattah Canal ...	5,047		
14. Fuleli Canal ...	3,96,061		
15. Other Canals in Fuleli Canals Division.	30,710		
Total Productive ...	1,18,71,150		
UNPRODUCTIVE.			
1. Mahiwah ...	1,16,148		
2. Kalri ...	13,461		
3. Hassanali ...	28,531		
Total Unproductive ...	1,58,140		
Total Capital Works ...	1,20,29,290		

A. GORDON,
Chief Engineer in Sind.

33005

Statement of the highest readings at Bukkur and Kotri from 1881 to 1935

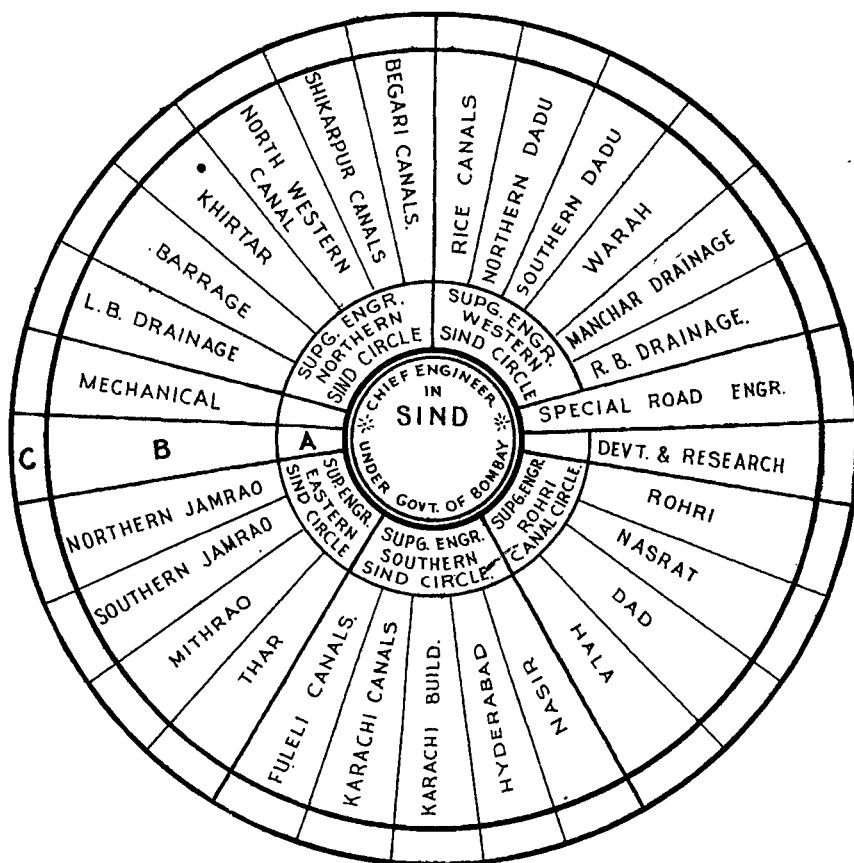
Year.	Bukkur.		Highest reading.	Kotri.		Remarks.
	Date and month.			Date and month.	Highest reading.	
		Feet.			Feet.	
1881	... 20th June	...	14'4	28th August	...	17'2
1882	... 7th August	...	17'6	17th "	...	20'5
1883	... 17th July	...	15'9	26th July	...	18'5
1884	... 19th August	...	15'8	27th August	...	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	26th 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

Year.	Bukkur.		Kotri.		Remarks.
	Date and month.	Highest reading.	Date and month.	Highest reading.	
		Feet.		Feet.	
1911	20th June	14'0	28th June	20'7	
1912	10th August	15'5	17th August	21'7	
1913	15th "	15'0	20th "	20'9	
1914	3rd "	17'4	11th "	23'8	
1915	26th "	12'7	31st "	19'6	
1916	16th "	13'6	24th "	22'1	
1917	16th "	15'8	6th September	23'0	
1918	19th June	11'8	23rd June	19'5	
1919	15th August	14'7	21st August	22'4	
1920	4th "	15'0	8th "	21'4	
1921	10th "	16'8	27th "	22'1	
1922	2nd July	15'5	10th "	20'4	
1923	30th August	14'1	6th September	21'9	
1924	11th "	16'6	19th August	23'6	
1925	9th "	15'7	17th "	22'1	
1926	21st "	15'3	5th September	22'7	
1927	19th "	15'3	24th August	21'5	
1928	1st "	14'2	6th "	19'3	
1929	6th September	17'7	13th September	24'1	
1930	24th July	16'9	30th July	23'1	
1931	30th "	13'9	1st September	19'3	
1932	11th August	16'7	18th August	23'7	
1933	11th "	16'3	7th September	24'95	
1934	16th July	14'1	13th August	22'6	
1935	23rd August	15'0	29th August	23'6	

A. GORDON,
Chief Engineer in Sind.

DIAGRAM

SHOWING
PUBLIC WORKS DEPARTMENT ADMINISTRATION
IN SIND
1935-36.



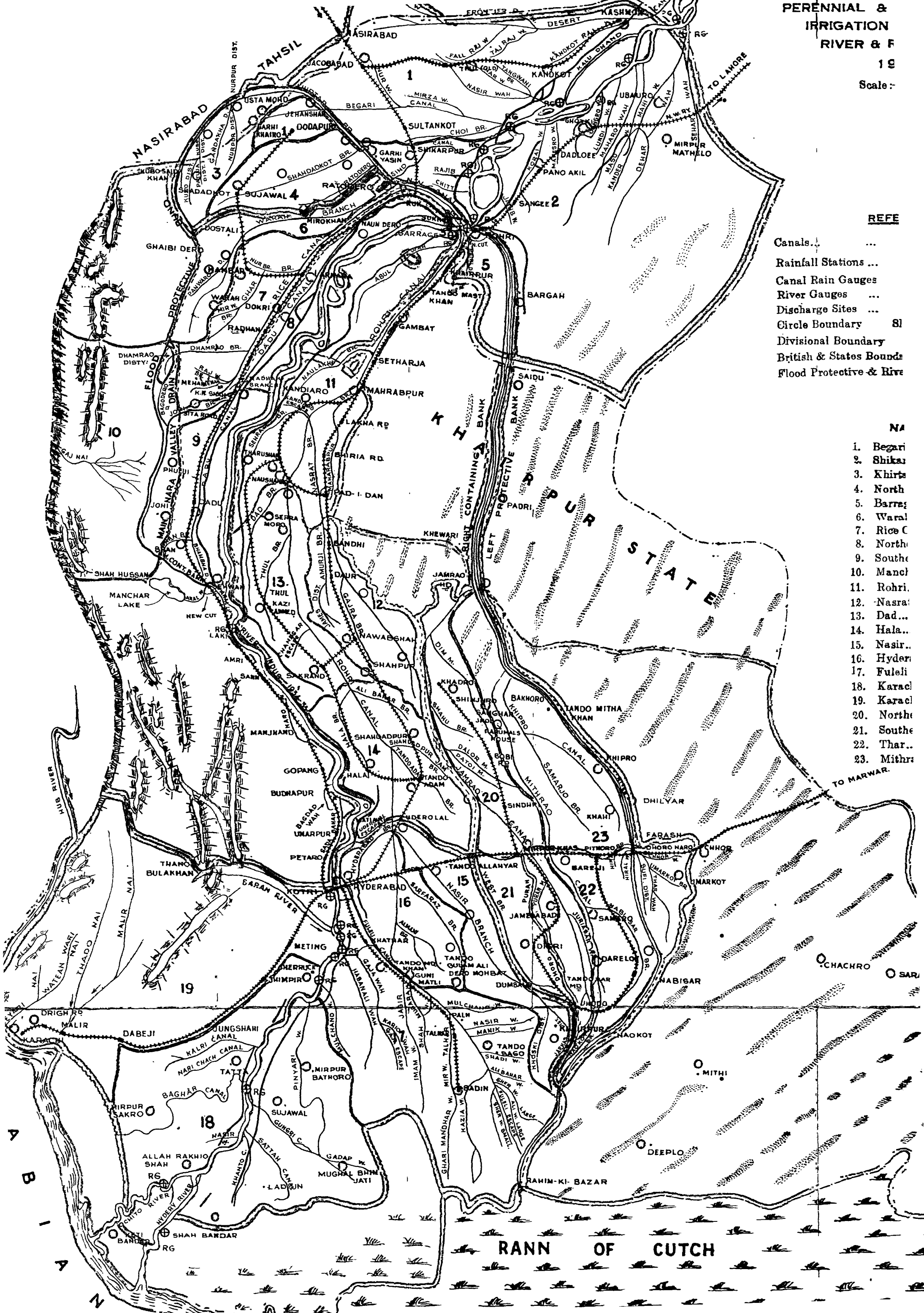
ADMINISTRATIVE ZONE "A"	} HAVE	{	PERMANENT CIRCLES & DIVISIONS ---- PINK
EXECUTIVE DIVISION ZONE "B"			TEMPORARY ---- DO ---- DO ---- DO ---- YELLOW.
ZONE "C." SHOWS NATURE OF WORKS IN ZONE "A" & "B"	} SUCH AS	{	ROAD & BUILDINGS -- DO -- DO -- (a) PURPLE
			IRRIGATION ----- DO ----- DO ----- (b) GREEN
			MIXED (a) & (b) & MISCELLANEOUS... BLUE

REFE

- Canals.
- Rainfall Stations ...
- Canal Rain Gauges
- River Gauges ...
- Discharge Sites ...
- Circle Boundary 81
- Divisional Boundary
- British & States Bounds
- Flood Protective & River

NA

- 1. Begari
- 2. Shikau
- 3. Khirta
- 4. North
- 5. Barraj
- 6. Waral
- 7. Rice C
- 8. North
- 9. Southe
- 10. Manch
- 11. Rohri.
- 12. Nasra
- 13. Dad...
- 14. Hala...
- 15. Nasir..
- 16. Hyder
- 17. Fuleli
- 18. Karac
- 19. Karac
- 20. North
- 21. Southe
- 22. Thar..
- 23. Mithra



AREAS TO BE IRRIGATED
AND INUNDATED
REVENUE

193

Scale :-

REFERE

Canals ...
British & State Boundary ...
District Boundary ...
Perennial Areas ...
Kharif Areas ...
Areas Commanded by In

DETAILS
PRE-BARRA
CULTIVATI

British Territ
Nasirabad Ta
Khairpur Sta

FINAL E
CULTIVATI

British Terri
Khairpur Sta
Nasirabad T

CULTIVA

British Terr
Nasirabad T
Khairpur St

