Revenue (1899) Department.

MISCELLANEOUS SERIES.

G.O., No. 1871

DATED 25th May 1899.

[Despatch Abstract.]

Coming to Board, Proceedings of the P. W. D. Coming to the officers concerned for information. Note by the Chief Engineer for Irrigation reviewing the Statements forwarded by the Bd of Rev., showing the irrigation revenue derived from all irrigation works during the Fasli year 1307 (1897-98).

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No	Department.	Date.

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Revenue Dept:

IRRIGATION.

Government {1899} of Madras.

PUBLIC WORKS.

Current No 3025.

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Recd. 6th May
Regd. 8th —do—
} 1899.

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G.O., No. 339 I., 13th April 1899.

G.O. this no 1871 dy 25th May 99
Communicated to the Board of Revenue.

APRIL.

Ille 23/V/99

1 to the Bd of Rev (Rev side)
dd. 29-5-99

Irrigation Revenue A 13-5-99 RA 19-5-99

Note by the Chief Engineer for Irrigation reviewing the statements, forwarded by the Board of Revenue, showing the — derived from all irrigation works during the fasli year 1307 (1897-1898), communicated to the officers concerned for information.

2A 8/V/99

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

Read—the following papers :—

Procs. of the Board of Revenue (R.S., L.R. and Agri.), No. 279, dated 4th Aug. 1898.
" " " No. 296, dated 11th Aug. 1898.
" " " Mis. No. 5320, dated 5th Sept. 1898.

Procs. of the Board of Rev. (R.S., L.R. & Agri.), No. 52, dated 11th Feb. 1899.

Read—again the following papers :—

Procs. of the Bd. of Rev. (R.S., L.R. & Agri.), Mis. No. 6150, dated 17th Oct. 1898.

Abstract.—Forwarding to the Chief Engineer for Irrigation the irrigation accounts relating to classes I to IV works for fasli 1307; and stating that the usual review of the accounts will be submitted to Government, Public Works Department, Irrigation Branch, after receipt of certain information from the Collector of Madura.

Procs. of the Bd. of Rev. (R.S., L.R. & Agri.), Mis. No. 6552, dated 10th Nov. 1898.

Abstract.—Forwarding to the Chief Engineer for Irrigation revised statements relating to the irrigation accounts for fasli 1307; and requesting the Collector of Kurnool to explain certain discrepancies.

Resolution—No. 52, dated 11th February 1899.

The Board submits to Government its review of the results of irrigation under the different classes of works I to IV during fasli 1307 (1897–98). The delay is due to late receipt of the accounts relating to the Periyár project.

2. The usual statements relating to the irrigation accounts were forwarded to the Chief Engineer for Irrigation in advance in B.P., Mis. No. 6150, dated 17th October 1898 and Mis. No. 6552, dated 10th November 1898. These statements have been revised with reference to certain further information received from the Collector of Kurnool and the revised statements are appended to these proceedings.

3. The following comparative statement shows the area occupied, the area actually irrigated or charged as irrigated, and the revenue derived under all classes of works during 1897–98 :—

Items.	Area occupied.		Area actually irrigated or charged as irrigated.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.
	First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9
Class I works—	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
1896–97 ..	2,313,704	280,146	2,242,779	276,430	1,33,24,215	1,05,24,932	4,75,753	1,00,49,179
1897–98 ..	2,361,452	322,674	2,340,694	318,213	1,39,33,775	1,10,35,095	1,72,657	1,08,62,438
Difference ..	+ 47,748	+ 42,528	+ 97,915	+ 41,783	+ 6,09,560	+ 5,10,163	— 3,03,096	+ 8,13,259
Class II works—								
1896–97 ..	436,995	100,542	426,707	96,717	24,80,673	17,88,307	60,798	17,27,509
1897–98 ..	442,768	102,002	435,946	99,867	25,20,360	18,16,967	47,172	17,69,795
Difference ..	+ 5,773	+ 1,460	+ 9,239	+ 3,150	+ 39,687	+ 28,660	— 13,626	+ 42,286
Class III works—								
1896–97 ..	101,589	74,054	94,561	69,451	8,36,244	7,05,297	53,239	6,52,058
1897–98 ..	102,284	75,396	101,580	75,391	8,41,762	7,10,042	7,592	7,02,450
Difference ..	+ 695	+ 1,342	+ 7,019	+ 5,940	+ 5,518	+ 4,745	— 45,647	+ 50,392

Items.	Area occupied.		Area actually irrigated or charged as irrigated.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.
	First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9
Class IV works—	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
1896–97 ..	2,407,326	684,380	2,134,971	653,403	1,10,18,695	82,87,610	13,27,530	69,60,080
1897–98 ..	2,431,946	735,624	2,228,612	725,426	1,12,58,731	84,98,117	9,06,192	75,91,925
Difference ..	+ 24,620	+ 51,244	+ 93,641	+ 72,023	+ 2,40,036	+ 2,10,507	— 4,21,338	+ 6,31,845
Total—								
1896–97 ..	5,259,614	1,139,122	4,899,018	1,096,001	2,76,59,827	2,13,06,146	19,17,320	1,93,88,826
1897–98 ..	5,338,450	1,235,696	5,106,832	1,218,897	2,85,54,628	2,20,60,221	11,33,613	2,09,26,608
Difference ..	+ 78,836	+ 96,574	+ 207,814	+ 122,896	+ 8,94,801	+ 7,54,075	— 7,83,707	+ 15,37,782

4. Compared with 1896–97, the area occupied and the area actually irrigated show an increase under all classes of works; the increase in the former case aggregating 78,836 acres under first crop and 96,574 acres under second crop; and that in the latter case amounting to 207,814 acres under first crop and 122,896 acres under second crop. The total revenue on irrigated lands amounted to Rs. 285·55 lakhs, of which the share due to irrigation was Rs. 220·60 lakhs or 77 per cent. Deducting Rs. 11·33 lakhs remitted during the year against Rs. 19·17 lakhs in 1896–97, the net revenue to be credited to the works amounted to Rs. 209·27 lakhs against Rs. 193·89 lakhs in the previous year.

	RS.
* Gódávari anikat	3,58,159
Kistna ,, ...	2,97,834
Cauvery ,, ...	51,090
Pennér ,, ...	9,632
Srivaikuntam ,, ...	5,624
Barur tank project	89
Rushikulya ,, ...	5,546
Periyár ,, ...	95,276
Total ..	8,23,250

Increase.

	RS.	Percentage.
† Pálár anikat	16,118	24·8
Pelandorai anikat	1,272	1·9
Madras water supply and irrigation extension project	1,437	2·2
Cumbum tank	2,984	4·6
Arákankottai channel	493	0·7
Kalingaroyan ,, ...	373	0·6
Valluru anikat	103	0·2
Poiney ,, ...	13,231	20·3
Lower Coleroon anikat	14,244	21·9
Mehmattur ,, ...	1,214	1·9
Marudur ,, ...	866	1·3
Tirukkóyilúr ,, ...	2,259	3·5
Ganjám minor rivers system	5,958	9·1
Nandyar channel	4,543	7·0
Total ..	65,095	100·0

Decrease.

	RS.
‡ Chembrambakam tank	2,255
Tadipalli channel	1,215
Cheyaru anikat	18,988
Shatiatope anikat	123
Vriddachalam	228
Total ..	22,809

	RS.
§ Nellore	1,70,197
Chingleput	2,33,665
South Arcot	47,349
Tanjore	2,118
Madura	23,355
Tinnevelly	50,906
Total ..	5,27,590

5. As compared with the previous year there was an increase of Rs. 8,13,259 in the revenue due to irrigation under class I works, which is the net result of a gross increase of Rs. 8,23,250 * under the systems noted in the margin, and a decrease of Rs. 9,991 under the Sangam anikat. The variations have been explained in paragraph 3 of B.P., No. 279, dated 4th August 1898. The increase of Rs. 42,286 in the revenue due to irrigation under class II works is the net result of a gross increase of Rs. 65,095 † under the marginally-noted systems, and of a gross decrease of Rs. 22,809 ‡ under the other works. The bulk of the decrease occurred under the Cheyaru anikat. Under class III works there was an increase of Rs. 50,392 being the net result of an increase of Rs. 53,101 in Vizagapatam, South Arcot, Tinnevelly, Coimbatore and Salem districts and a decrease of Rs. 2,709 in the Chingleput district. Under class IV works also there was an increase in all the districts except Nellore, Chingleput, South Arcot, Tanjore, Madura and Tinnevelly. The decrease in these districts amounted to Rs. 5,27,590 § as detailed in the margin.

6. The growth of irrigation revenue under different classes of works during the last six years is exhibited in the subjoined statement. As observed in the reviews of previous years the improvement in the revenue under class I works is steady and satisfactory:—

Fasli.	Class I.			Class II.			Class III.		
	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.
1	2	3	4	5	6	7	8	9	10
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1302 (1892-93) ..	78,82,951	1,58,673	77,24,278	16,90,116	74,799	16,15,317	6,92,770	25,028	6,67,742
1303 (1893-94) ..	87,58,171	1,00,215	86,57,956	17,39,844	17,355	17,22,489	7,04,079	5,413	6,98,666
1304 (1894-95) ..	91,29,040	94,399	90,34,641	17,59,201	37,057	17,22,144	7,02,923	17,497	6,85,426
1305 (1895-96) ..	98,96,513	3,64,401	95,32,112	17,89,990	32,260	17,57,730	7,04,852	4,914	6,99,938
1306 (1896-97) ..	1,05,24,932	4,75,753	1,00,49,179	17,88,307	60,798	17,27,509	7,05,297	53,239	6,52,058
1307 (1897-98) ..	1,10,35,095	1,72,657	1,08,62,438	18,16,967	47,172	17,69,795	7,10,042	7,592	7,02,450

Fasli.	Class IV.			Total.		
	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.	Share due to irrigation.	Deduct remissions.	Net revenue due to irrigation.
	11	12	13	14	15	16
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1302 (1892-93)	83,68,903	13,16,949	70,51,954	1,86,34,740	15,75,449	1,70,59,291
1303 (1893-94)	86,27,063	3,66,913	82,60,150	1,98,29,157	4,89,896	1,93,39,261
1304 (1894-95)	85,32,234	8,96,897	76,36,337	2,01,24,398	10,45,850	1,90,78,548
1305 (1895-96)	88,14,362	3,49,885	84,64,477	2,12,05,717	7,51,460	2,04,54,257
1306 (1896-97)	82,87,610	13,27,530	69,60,080	2,13,06,146	19,17,320	1,93,88,826
1307 (1897-98)	84,98,117	9,06,192	75,91,925	2,20,60,221	11,33,613	2,09,26,608

7. The following statement compares the area irrigated under the Kurnool-Cuddapah canal and the revenue derived therefrom during the year under review with the corresponding figures for the preceding year:—

Districts.	Area irrigated.				Demand.	Remission.	Net demand.
	First crop.		Second crop.				
	Wet.	Dry.	Wet.	Dry.			
	Acs.	Acs.	Acs.	Acs.	Rs.	Rs.	Rs.
Kurnool .. 1306.	13,470	48,038	1,316	2,794	1,12,981	105	1,12,876
Kurnool .. 1307.	11,573	11,540	2,098	1,298	78,035	219	77,816
Difference ..	— 1,897	— 36,498	+ 782	— 1,496	— 34,946	+ 114	— 35,060
Cuddapah .. 1306.	10,311	7,258	2,069	1,970	63,112	1,247	61,865
Cuddapah .. 1307.	10,525	5,644	2,565	1,921	65,094	1,123	63,971
Difference ..	+ 214	— 1,614	+ 496	— 49	+ 1,982	— 124	+ 2,106
Total .. 1306.	23,781	55,296	3,385	4,764	1,76,093	1,352	1,74,741
Total .. 1307.	22,098	17,184	4,663	3,219	1,43,129	1,342	1,41,787
Difference ..	— 1,683	— 38,112	+ 1,278	— 1,545	— 32,964	— 10	— 32,954

The total area irrigated under the canal, including the extent under dry crops was 47,164 acres against 87,226 acres in the previous year, being a decrease of 40,062 acres. The bulk of this decrease (39,109 acres) occurred in the Kurnool district and was due to the fact that the irrigation in fasli 1306 was abnormal owing to failure of rain in that year which induced ryots to avail themselves very largely of canal irrigation for dry crops.

8. With reference to the remarks of the Government of India in the concluding sentence of paragraph 4 of its review of the administration report of irrigation works for the year 1896–97 (Review No. 241 I., dated 8th July 1898, printed in G.O., No. 567 I., dated 22nd July 1898), the Board begs to state that the areas reported as irrigated by Periyár water during the first two years of the working of the project, compare very favourably with the forecast thereof framed in 1894, as will be seen from the subjoined statement:—

—	1896-97.		1897-98.	
	First crop.	Second crop.	First crop.	Second crop.
	Acs.	Acs.	Acs.	Acs.
Estimate of 1894	11,468	7,794	22,918	15,585
Actuals as reported by Tahsildars.	51,323	12,428	69,394	19,749

As regards the revenue to be credited to the project however the figures reported are much below those entered in the forecast of 1894. But the Board has reason to believe that the reported figures have been incorrectly worked out and that, when correctly calculated, the amount due to the project will be found to exceed the estimates of 1894. The increase of revenue under usual wet caused by the raising of the class of irrigation after the supply of the Periyár water has, for instance, been credited to old irrigation instead of to the project, and the amount involved in this wrong credit is for 1897–98 nearly a lakh of rupees. A scrutiny of irrigation accounts, recently made in the Board's office, has disclosed other errors also, and the revised statements of revenue due to the project in 1896–97, received from the Collector with reference to the discrepancies pointed out by the Chief Engineer in his letter No. 173 M., dated 13th May 1898, having also been found to be erroneous in certain respects, special instructions have been issued and steps taken to ensure preparation of correct accounts for both 1896–97 and 1897–98. Every endeavour will be made to get correct figures compiled as early as possible. The Board considers that until correct figures have been made available it is useless to review in detail the results attained under the Periyár project.

	1896-97.	1897-98.
	Rs.	Rs.
Forecast of 1894 ...	72,179	1,44,237
Actuals reported ...	35,551	1,12,191

9. It may be observed that a great deal yet remains to be done by the Public Works Department in the construction of distributary channels, and in the regulation of water-supply at the Periyár head sluice. It is reported that to enable the ryots to raise a short crop during the south-west monsoon, water should be made available by about the 15th May. The results achieved so far in inducing the ryots to raise a second crop are encouraging, and it is expected that ryots will take largely to second crop cultivation when, by providing regulating shutters to the head sluice, it is found possible to arrange for supply in the channels being available early in May. If, as observed in B.P., No. 25, dated 24th January 1899, improved means of communication can also be provided, it is expected that the area under irrigation will be extended, and the area now watered will be more profitably cultivated.

(True Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

To the Joint Secretary to Government, Public Works Department,
Irrigation Branch, with a copy of
B.P., No. 25, dated 24th January 1899.

Copy to the Chief Engineer for Irrigation.
„ to all Collectors, except those of Madras,
the Nilgiris, Malabar and South Canara.

APPENDIX I.

STATEMENT showing the total area occupied, the area actually irrigated or charged as irrigated and the revenue derived for fasli 1307 (1897-98) in comparison with the previous year.

—	—	Area occupied.		Area actually irrigated or charged as irrigated.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10
Class I—Works.		ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Gódávari delta ..	1896-97	639,306	139,242	602,298	137,551	37,61,124	29,44,528	2,65,120	26,79,408
	1897-98	644,468	167,154	635,954	163,481	39,68,373	31,37,925	1,00,358	30,37,567
	Difference ..	+ 5,162	+ 27,912	+ 33,656	+ 25,930	+ 2,07,249	+ 1,93,397	— 1,64,762	+ 3,58,159
Kistna delta	1896-97	504,857	659	482,017	616	27,14,309	22,02,120	1,42,745	20,59,375
	1897-98	522,919	455	519,922	451	29,40,386	23,70,703	13,494	23,57,209
	Difference ..	+ 18,062	— 204	+ 37,905	— 165	+ 2,26,077	+ 1,68,583	— 129,251	+ 2,97,834
Cauvery anikat ..	1896-97	883,159	95,102	882,536	94,587	53,99,757	41,90,400	12,707	41,77,693
	1897-98	888,191	102,954	886,920	102,888	54,61,108	42,42,105	13,322	42,28,783
	Difference ..	+ 5,032	+ 7,852	+ 4,384	+ 8,301	+ 61,351	+ 51,705	+ 615	+ 51,090
Pennér anikat ..	1896-97	67,105	3,246	64,907	3,246	3,33,198	2,63,318	12,653	2,50,665
	1897-98	68,098	3,954	66,510	3,954	3,38,082	2,68,540	8,243	2,60,297
	Difference ..	+ 993	+ 708	+ 1,603	+ 708	+ 4,884	+ 5,222	— 4,410	+ 9,632
Sangam anikat ..	1896-97	74,863	7,110	72,676	7,110	4,01,951	3,23,729	11,924	3,11,805
	1897-98	74,365	4,512	71,765	4,512	3,93,575	3,15,383	13,569	3,01,814
	Difference ..	— 498	— 2,598	— 911	— 2,598	— 8,376	— 8,346	+ 1,645	— 9,991
Srívaikuntam anikat.	1896-97	23,094	19,694	21,512	18,635	2.23,090	1,97,244	13,130	1,84,114
	1897-98	22,785	20,699	21,580	20,088	2,26,055	2,00,391	10,653	1,89,738
	Difference ..	— 309	+ 1,005	+ 68	+ 1,453	+ 2,965	+ 3,147	— 2,477	+ 5,624
Barur tank project ..	1896-97	2,609	1,831	2,609	1,831	13,935	11,547	14	11,533
	1897-98	2,664	1,757	2,664	1,757	14,056	11,631	9	11,622
	Difference ..	+ 55	— 74	+ 55	— 74	+ 121	+ 84	— 5	+ 89
Rushikulya project ..	1896-97	66,267	426	62,901	426	1,60,940	1,18,641	10,535	1,08,106
	1897-98	67,996	1,333	65,985	1,333	1,68,385	1,18,471	4,819	1,13,652
	Difference ..	+ 1,729	+ 907	+ 3,084	+ 907	+ 7,445	— 170	— 5,716	+ 5,546
Periyár project ..	1896-97	52,444	12,836	51,323	12,428	3,15,911	2,73,405	6,925	2,66,480
	1897-98	69,966	19,856	69,394	19,749	4,23,755	3,69,946	8,190	3,61,756
	Difference ..	+ 17,522	+ 7,020	+ 18,071	+ 7,321	+ 1,07,844	+ 96,541	+ 1,265	+ 95,276
Total of Class I—Works.	1896-97	2,313,704	280,146	2,242,779	276,430	1,33,24,215	1,05,24,932	4,75,753	1,00,49,179
	1897-98	2,361,452	322,674	2,340,694	318,213	1,39,33,775	1,10,35,095	1,72,657	1,08,62,438
	Difference ..	+ 47,748	+ 42,528	+ 97,915	+ 41,783	+ 6,09,560	+ 5,10,163	— 303,096	+ 8,13,259
Class II—Works.									
...lár anikat	1896-97	74,496	25,072	70,336	23,391	3,42,604	2,60,154	22,250	2,27,904
	1897-98	76,231	23,274	74,684	23,136	3,47,217	2,62,743	8,721	2,54,022
	Difference ..	+ 1,735	— 1,798	+ 4,348	— 255	+ 4,613	+ 2,589	— 13,529	+ 16,118
...andorai anikat ..	1896-97	9,233	168	9,223	168	49,689	34,296	94	34,202
	1897-98	9,952	353	9,860	352	53,713	37,077	1,603	35,474
	Difference ..	+ 719	+ 185	+ 637	+ 184	+ 4,024	+ 2,781	+ 1,509	+ 1,272
...nbrambákam tank	1896-97	13,042	2,220	13,037	2,200	64,279	46,248	373	45,875
	1897-98	13,061	4,116	11,705	3,986	68,862	50,821	7,201	43,620
	Difference ..	+ 19	+ 1,896	— 1,332	+ 1,786	+ 4,583	+ 4,573	+ 6,828	— 2,255
...s water-supply irrigation ex-...ion project.	1896-97	7,402	2,341	7,402	2,341	28,374	21,159	361	20,798
	1897-98	7,541	2,846	7,541	2,846	30,065	22,578	343	22,235
	Difference ..	+ 139	+ 505	+ 139	+ 505	+ 1,691	+ 1,419	— 18	+ 1,437

APPENDIX I—*cont.*

Statement showing the total area occupied, the area actually irrigated or charged as irrigated, &c.—*cont.*

—	—	Area occupied.		Area actually irrigated or charged as irrigated.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10
Class II—Works—cont.		ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Cumbum tank ..	1896-97	5,534	4,001	5,533	2,586	45,297	39,185	5,993	33,192
	1897-98	5,736	4,183	5,736	2,456	46,704	40,407	4,231	36,176
	Difference ..	+ 202	+ 182	+ 203	— 130	+ 1,407	+ 1,222	— 1,762	+ 2,984
Tadepalli channel ..	1896-97	14,686	401	14,530	401	1,26,362	1,04,897	726	1,04,171
	1897-98	14,298	558	14,220	557	1,24,370	1,03,359	403	1,02,956
	Difference ..	— 388	+ 157	— 310	+ 156	— 1,992	— 1,538	— 323	— 1,215
Arakankottai channel.	1896-97	4,118	43	4,083	43	33,250	27,619	210	27,409
	1897-98	4,128	29	4,105	29	33,638	28,021	119	27,902
	Difference ..	+ 10	— 14	+ 22	— 14	+ 388	+ 402	— 91	+ 493
Kalingarayen channel.	1896-97	11,272	10,244	11,272	10,244	1,18,927	1,05,133	130	1,05,003
	1897-98	11,319	10,197	11,319	10,197	1,19,313	1,05,433	57	1,05,376
	Difference ..	+ 47	— 47	+ 47	— 47	+ 386	+ 300	— 73	+ 373
Valluru anikat ..	1896-97	5,149	94	5,149	94	13,465	8,632	349	8,283
	1897-98	5,173	247	5,059	247	14,258	9,108	722	8,386
	Difference ..	+ 24	+ 153	— 90	+ 153	+ 793	+ 476	+ 373	+ 103
Cheyáru anikat ..	1896-97	22,104	14,898	22,104	14,898	1,22,368	91,200	211	90,989
	1897-98	21,396	12,824	19,703	12,802	1,14,079	83,793	11,792	72,001
	Difference ..	— 708	— 2,074	— 2,401	— 2,096	— 8,289	— 7,407	+ 11,581	— 18,988
Poiney anikat ..	1896-97	21,695	4,281	19,903	3,805	1,10,847	82,442	8,337	74,105
	1897-98	22,452	5,795	22,416	5,791	1,17,251	88,008	672	87,336
	Difference ..	+ 757	+ 1,514	+ 2,513	+ 1,986	+ 6,404	+ 5,566	— 7,665	+ 13,231
Lower Coleroon anikat	1896-97	107,074	1,900	106,994	1,892	6,23,216	3,83,798	734	3,83,064
	1897-98	108,988	3,985	108,967	3,971	6,41,961	3,97,556	248	3,97,308
	Difference ..	+ 1,914	+ 2,085	+ 1,973	+ 2,079	+ 18,745	+ 13,758	— 486	+ 14,244
Shatyatope anikat ..	1896-97	29,955	3,391	29,846	3,350	1,67,116	1,11,985	244	1,11,741
	1897-98	30,289	4,758	29,022	4,690	1,72,448	1,16,814	5,196	1,11,618
	Difference ..	+ 334	+ 1,367	— 824	+ 1,340	+ 5,332	+ 4,829	+ 4,952	— 123
Vriddhachalam anikat.	1896-97	6,157	225	6,157	225	37,426	24,424	8	24,416
	1897-98	6,118	405	6,117	405	36,770	24,210	22	24,188
	Difference ..	— 39	+ 180	— 40	+ 180	— 656	— 214	+ 14	— 228
Mehmattur anikat ..	1896-97	3,490	59	3,490	59	23,241	15,141	..	15,141
	1897-98	3,915	105	3,915	105	25,394	16,355	..	16,355
	Difference ..	+ 425	+ 46	+ 425	+ 46	+ 2,153	+ 1,214	..	+ 1,214
Marudur anikat ..	1896-97	17,545	16,471	17,467	16,441	2,15,482	1,88,632	2,520	1,86,112
	1897-98	17,564	16,629	17,506	16,629	2,16,067	1,89,195	2,217	1,86,978
	Difference ..	+ 19	+ 158	+ 39	+ 188	+ 585	+ 563	— 303	+ 866
Tirukkóyilúr anikat..	1896-97	23,003	2,384	22,893	2,358	1,30,662	92,276	759	91,517
	1897-98	23,229	3,122	22,911	3,111	1,34,383	95,642	1,866	93,776
	Difference ..	+ 226	+ 738	+ 18	+ 753	+ 3,721	+ 3,366	+ 1,107	+ 2,259
Ganjám minor rivers system.	1896-97	56,756	10,770	53,234	10,767	2,05,122	1,34,229	16,20[illegible]	1,18,626
	1897-98	56,450	6,270	56,271	6,270	1,96,678	1,25,478	1,494	1,23,984
	Difference ..	— 306	— 4,500	+ 3,037	— 4,497	— 8,444	— 8,751	— 14,709	+ 5,958

APPENDIX I—*cont.*

Statement showing the total area occupied, the area actually irrigated or charged as irrigated, &c.—*cont.*

—	—	Area occupied.		Area actually irrigated or charged as irrigated.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10
Class II—Works—cont.		ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Nandyar channel ..	1896-97	4,284	1,579	4,054	1,454	22,946	16,857	1,296	15,561
	1897-98	4,928	2,306	4,889	2,287	27,189	20,369	265	20,104
	Difference ..	+ 644	+ 727	+ 835	+ 833	+ 4,243	+ 3,512	— 1,031	+ 4,543
Total of Class II—Works.	1896-97	436,995	100,542	426,707	96,717	24,80,673	17,88,307	60,798	17,27,509
	1897-98	442,768	102,002	435,946	99,867	25,20,360	18,16,967	47,172	17,69,795
	Difference ..	+ 5,773	+ 1,460	+ 9,239	+ 3,150	+ 39,687	+ 28,660	— 13,626	+ 42,286
Class III—Works.									
Vizagapatam ..	1896-97	19,802	14,574	12,468	9,986	74,447	53,690	45,687	8,003
	1897-98	19,514	15,142	19,415	15,142	78,612	57,066	811	56,255
	Difference ..	+ 212	+ 568	+ 6,947	+ 5,156	+ 4,165	+ 3,376	— 44,876	+ 48,252
Chingleput ..	1896-97	5,932	799	5,932	799	21,126	14,599	293	14,306
	1897-98	5,951	917	5,401	917	20,351	13,775	2,178	11,597
	Difference ..	+ 19	+ 118	— 531	+ 118	— 775	— 824	+ 1,885	— 2,709
South Arcot ..	1896-97	12,606	3,204	12,585	3,189	89,018	63,644	1,994	61,650
	1897-98	12,891	3,276	12,842	3,273	88,832	63,619	588	63,031
	Difference ..	+ 285	+ 72	+ 257	+ 84	— 186	— 25	— 1,406	+ 1,381
Tinnevelly ..	1896-97	36,943	34,178	36,943	34,178	4,77,041	4,25,060	3,549	4,21,511
	1897-98	37,099	34,459	37,096	34,459	4,77,496	4,25,490	3,502	4,21,988
	Difference ..	+ 156	+ 281	+ 153	+ 281	+ 455	+ 430	— 47	+ 477
Coimbatore ..	1896-97	26,379	20,872	26,379	20,872	1,72,818	1,46,870	517	1,46,353
	1897-98	26,396	21,175	26,393	21,173	1,74,653	1,48,636	513	1,48,123
	Difference ..	+ 17	+ 303	+ 14	+ 301	+ 1,835	+ 1,766	— 4	+ 1,770
Salem	1896-97	427	427	254	427	1,794	1,434	1,199	235
	1897-98	433	427	433	427	1,818	1,456	..	1,456
	Difference ..	+ 6	..	+ 179	..	+ 24	+ 22	— 1,199	+ 1,221
Total of Class III—Works.	1896-97	101,589	74,054	94,561	69,451	8,36,244	7,05,297	53,239	6,52,058
	1897-98	102,284	75,396	101,580	75,391	8,41,762	7,10,042	7,592	7,02,450
	Difference ..	+ 695	+ 1,342	+ 7,019	+ 5,940	+ 5,518	+ 4,745	— 45,647	+ 50,392
Class IV—Works.									
Ganjám	1896-97	122,888	1,271	76,178	1,249	3,12,393	1,61,902	1,50,951	10,951
	1897-98	115,346	5,935	113,472	5,931	3,01,461	1,59,645	7,725	1,51,920
	Difference ..	— 7,542	+ 4,664	+ 37,294	+ 4,682	— 10,932	— 2,257	—1,43,226	+ 1,40,969
Vizagapatam	1896-97	80,720	72,312	52,372	55,816	3,41,800	2,42,232	1,27,073	1,15,159
	1897-98	84,222	74,825	83,765	74,766	3,61,385	2,57,185	2,394	2,54,791
	Difference ..	+ 3,502	+ 2,513	+ 31,393	+ 18,950	+ 19,585	+ 14,953	—1,24,679	+ 1,39,632
Gódávari	1896-97	105,350	1,687	62,213	1,554	2,80,316	1,83,805	1,34,900	48,405
	1897-98	105,293	5,855	102,028	5,832	2,93,483	1,95,678	7,254	1,88,424
	Difference ..	— 57	+ 4,168	+ 39,815	+ 4,278	+ 13,167	+ 12,373	—1,27,646	+ 1,40,019
Kistna	1896-97	44,859	224	32,858	218	2,05,706	1,43,714	67,027	76,687
	1897-98	45,783	543	41,360	541	2,09,973	1,48,324	24,487	1,23,837
	Difference ..	+ 924	+ 319	+ 8,502	+ 323	+ 4,267	+ 4,610	— 42,540	+ 47,150
Nellore	1896-97	133,836	12,769	126,040	12,767	6,16,226	4,84,664	33,472	4,51,192
	1897-98	131,284	11,748	90,844	11,619	6,04,805	4,73,851	1,92,856	2,80,995
	Difference ..	— 2,552	— 1,021	— 35,196	— 1,148	— 11,421	— 10,813	+1,59,384	— 1,70,197

APPENDIX I—*cont.*

Statement showing the total area occupied, the area actually irrigated or charged as irrigated, &c.—*cont.*

—	—	Area occupied.		Area actually irrigated or charged as irrigated.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10
Class IV—Works—cont.		ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Cuddapah	1896-97	208,506	62,526	164,914	60,416	9,65,455	7,89,476	2,70,362	5,19,114
	1897-98	212,761	69,069	196,326	68,594	10,05,125	8,23,380	1,00,689	7,22,691
	Difference ..	+ 4,255	+ 6,543	+ 31,412	+ 8,178	+ 39,670	+ 33,904	—1,69,673	+ 2,03,577
Anantapur	1896-97	122,138	24,345	79,152	23,942	4,89,190	4,17,992	2,10,330	2,07,662
	1897-98	134,566	52,586	129,049	52,579	5,99,682	5,11,131	26,331	4,84,800
	Difference ..	+12,428	+28,241	+49,897	+28,637	+1,10,492	+ 93,139	—1,83,999	+ 2,77,138
Bellary	1896-97	53,264	12,587	43,297	12,357	3,07,534	2,61,847	58,189	2,03,658
	1897-98	55 862	18,157	55,044	18,150	3,30,893	2,84,042	4,523	2,79,519
	Difference ..	+ 2,598	+ 5,570	+ 11,747	+ 5,793	+ 23,359	+ 22,195	— 53,666	+ 75,861
Kurnool	1896-97	46,305	5,760	36,560	5,715	2,04,400	1,56,728	74,302	82,426
	1897-98	53,078	9,603	51,229	9,573	2,42,031	1,90,314	17,408	1,72,906
	Difference ..	+ 6,773	+ 3,843	+ 14,669	+ 3,858	+ 37,631	+ 33,586	— 56,894	+ 90,480
Chingleput	1896-97	354,272	53,943	351,443	53,780	12,16,840	8,58,467	19,079	8,39,388
	1897-98	354,466	38,595	284,709	36,693	11,89,280	8,29,218	2,23,495	6,05,723
	Difference ..	+ 194	— 15,348	— 66,734	— 17,087	— 27,560	— 29,249	+2,04,416	— 2,33,665
North Arcot	1896-97	221,053	96,093	209,145	94,779	11,56,831	8,53,659	85,824	7,67,835
	1897-98	221,939	92,196	206,726	90,740	11,49,228	8,45,895	77,323	7,68,572
	Difference ..	+ 886	— 3,897	— 2,419	— 4,039	— 7,603	— 7,764	— 8,501	+ 737
South Arcot	1896-97	285,591	47,930	283,650	47,209	15,08,484	10,45,252	11,059	10,34,193
	1897-98	285,938	55,656	269,414	54,985	15,31,666	10,65,235	78,391	9,86,844
	Difference ..	+ 347	+ 7,726	—14,236	+ 7,776	+ 23,182	+ 19,983	+ 67,332	— 47,349
Tanjore	1896-97	54,643	3,691	54,642	3,691	1,76,007	1,28,804	1,808	1,26,996
	1897-98	55,164	4,401	54,004	4,396	1,78,518	1,29,754	4,876	1,24,878
	Difference ..	+ 521	+ 710	— 638	+ 705	+ 2,511	+ 950	+ 3,068	— 2,118
Trichinopoly	1896-97	122,168	42,476	121,972	42,463	7,52,419	5,49,686	3,980	5,45,706
	1897-98	129,395	48,193	125,212	48,090	7,79,927	5,73,127	22,223	5,50,904
	Difference ..	+ 7,227	+ 5,717	+ 3,240	+ 5,627	+ 27,508	+ 23,441	+ 18,243	+ 5,198
Madura	1896-97	141,230	38,683	139,586	36,345	6,22,856	5,05,580	15,287	4,90,293
	1897-98	133,596	42,592	124,894	41,803	6,16,103	4,99,888	32,950	4,66,938
	Difference ..	— 7,634	+ 3,909	—14,692	+ 5,458	—13,753	— 5,692	+ 17,663	— 23,355
Tinnevelly	1896-97	148,679	84,601	146,534	84,026	9,86,839	8,51,673	22,491	8,29,182
	1897-98	147,909	81,439	138,490	79,225	9,74,904	8,41,313	63,037	7,78,276
	Difference ..	— 770	— 3,162	— 8,044	— 4,801	— 11,935	— 10,360	+ 40,546	— 50,906
Coimbatore	1896-97	49,590	18,616	48,372	17,891	2,77,092	2,28,263	6,967	2,21,356
	1897-98	50,402	19,175	49,371	18,588	2,82,625	2,32,819	6,074	2,26,745
	Difference ..	+ 812	+ 559	+ 999	+ 697	+ 5,533	+ 4,556	— 833	+ 5,389
Salem	1896-97	112,234	104,866	106,043	99,185	5,91,307	4,24,366	34,489	3,89,877
	1897-98	114,942	105,056	112,675	103,321	6,07,642	4,37,318	14,156	4,23,162
	Difference ..	+ 2,708	+ 190	+ 6,632	+ 4,136	+ 16,335	+ 12,952	— 20,333	+ 33,285
Total of Class IV—Works.	1896-97	2,407,326	684,380	2,134,971	653,403	1,10,18,695	82,87,610	13,27,530	69,60,080
	1897-98	2,431,946	735,624	2,228,612	725,426	1,12,58,731	84,98,117	9,06,192	75,91,925
	Difference ..	+24,620	+51,244	+93,641	+72,023	+ 2,40,036	+ 2,10,507	—4,21,338	+ 6,31,845

APPEN

LIX II.

ABSTRACT statement of the extent of irrigation and the revenue derived from Irrigation Works for the fasli year 1307 (1897-98).

Class and names of systems and canals.	Expected ultimate area of irrigation.	Area occupied.		Area charged as irrigated.			Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.	Area of lands irrigated free of charge included in columns 3 and 4.				
						First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10	11	12
CLASS I.—PRODUCTIVE PUBLIC WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Gódávari Anikat System.											
Eastern delta .. 1. Main canal	..	1,096	2	1,096	2	206	..	4,512	4,456	355	4,101
2. Bank canal	20,200	26,904	7,398	26,628	6,833	1,871	..	1,56,942	1,35,326	6,043	1,29,183
3. Cocanada canal	44,000	43,753	16,847	43,634	15,963	11,481	..	3,08,802	2,41,463	7,446	2,34,017
4. Samalkot do.	29,000	28,599	7,855	28,228	7,769	10,048	150	1,61,108	1,32,986	3,161	1,29,825
5. Mandapet do.	28,000	32,509	15,555	32,496	15,100	759	16	2,97,523	2,27,424	3,570	2,23,854
6. Tatipaka do.	32,000	32,699	10,700	32,502	9,882	8,039	..	2,16,497	1,65,930	10,293	1,55,637
7. Injiram do.	16,800	16,229	6,406	16,143	6,269	3,466	10	99,733	84,399	3,137	81,262
8. Kovur-Manjair Junction channel	..	6,290	1,988	5,792	1,988	2,894	..	27,778	27,466	4,089	23,377
Total, Eastern Delta ..	170,000	188,079	66,451	186,519	63,806	38,754	176	12,82,895	10,19,350	38,094	9,81,256
Central delta .. 1. Main canal	1,000	14	511	14	511	..	..	2,092	2,076	363	1,713
2. Gunnavaram canal	47,880	39,194	10,278	38,260	10,150	3,543	..	2,70,030	2,05,138	7,300	1,97,838
3. Bank canal	29,650	30,536	7,704	30,302	7,559	4,835	..	1,82,299	1,43,226	2,956	1,40,270
4. Amalápuram canal	31,350	29,356	5,752	29,278	5,737	7,092	..	1,57,050	1,28,607	3,227	1,25,380
5. Bondamurlanka canal	12,540	10,457	861	9,863	861	2,878	..	50,630	37,307	4,096	33,211
Total, Central Delta ..	122,420	109,557	25,106	107,717	24,818	18,338	..	6,62,101	5,16,354	17,942	4,98,412
Western delta .. 1. Main canal	1,000	1,534	1,032	1,521	987	41	41	11,222	11,096	1,046	10,050
2. Kakaraparru canal	8,500	10,114	5,296	10,114	5,292	..	..	74,825	64,315	2,088	62,227
3. Gostanadi and Velpur canal	39,000	42,727	6,295	42,288	6,147	7,541	..	2,58,600	1,94,452	4,278	1,89,174
4. Bank canal	28,000	35,367	18,541	35,127	18,515	1,478	..	2,92,037	2,21,044	2,481	2,18,563
5. Narsapur canal	59,000	67,116	20,460	65,316	19,974	9,999	5	4,57,965	3,60,308	16,381	3,43,927
6. Ellore canal	55,000	41,372	2,358	40,507	2,310	6,508	81	2,11,195	1,83,096	4,595	1,78,501
7. Attili do.	33,000	33,725	10,157	33,551	10,155	1,919	1	2,32,472	1,84,807	3,670	1,81,197
8. Venkayya and Wyair canal	48,080	44,373	6,562	43,355	6,562	22,675	630	1,54,809	1,36,476	5,341	1,25,135
9. Undi canal	48,000	53,233	2,233	52,570	2,215	20,001	3	2,33,068	1,71,531	4,116	1,67,415
10. Junction canal	..	17,371	2,753	17,369	2,700	2,289	..	97,184	82,036	326	81,710
Total, Western Delta ..	319,580	346,832	75,597	341,718	74,857	70,651	761	20,23,377	16,02,221	44,322	15,57,899
Total, Gódávari Anikat System ..	612,000	644,468	167,154	635,954	163,481	127,743	937	39,68,373	31,37,925	1,00,358	30,37,567
Kistna Anikat System.											
Eastern Delta .. 1. Ellore canal	31,000	48,298	32	48,166	32	10,877	..	2,04,321	1,89,195	934	1,88,261
2. Ryves do.	35,000	45,535	11	45,467	11	4,794	..	2,30,755	2,02,988	4,242	1,98,746
3. Masulipatam canal	34,000	42,774	5	42,667	5	2,890	..	2,17,314	2,05,180	1,200	2,03,980
4. Pullery canal	80,000	117,324	15	116,783	15	21,319	..	5,76,005	4,87,016	2,205	4,84,811
5. Polraszodu canal	34,000	26,630	96	26,465	96	6,095	..	1,22,540	1,03,286	1,468	1,01,818
6. Buntumilli do.	12,000	21,559	265	21,524	264	4,614	..	1,03,555	88,767	618	88,149
7. Bank canal	44,000	..	..	..	..	..	..	..	..	..	..
Total, Eastern Delta ..	270,000	302,520	424	301,072	423	50,589	..	14,54,790	12,76,432	10,667	12,65,765
Western delta .. 1. Main canal	6,000	9,131	..	9,007	..	..	..	63,895	47,397	275	47,122
2. Nizampatam canal	52,000	62,902	6	62,447	6	1,165	..	4,19,640	3,12,205	612	3,11,593
3. Bank canal	67,000	56,808	19	56,234	19	1,294	..	3,70,087	2,79,742	1,090	2,78,652
4. Commamore canal	80,000	91,558	6	91,162	3	3,408	..	6,31,974	4,84,927	850	4,84,077
Total, Western delta ..	205,000	220,399	31	218,850	28	5,867	..	14,85,596	10,94,271	2,827	10,91,444
Total, Kistna Anikat System ..	475,000	522,919	455	519,922	451	56,456	..	29,40,386	23,70,703	13,494	23,57,209
Cauvery Anikat System.											
Cauvery section .. 1. Cauvery	Not fixed.	198,576	44,431	197,809	44,365	27,288	4,734	13,33,962	10,65,952	5,795	10,60,157
2. Codamurti		36,310	13,314	36,310	13,314	7,949	1,464	3,03,819	2,56,485	..	2,56,485
3. Arasalar		17,990	1,957	17,990	1,957	2,406	191	1,26,651	1,00,748	..	1,00,748
4. Tirumalrajanar		9,679	1,693	9,679	1,693	983	17	75,194	60,526	..	60,526
5. Mudikondanar		32,549	2,352	32,549	2,352	2,243	2	2,35,056	1,87,280	..	1,87,280
6. Nattar		17,755	1,721	17,755	1,721	821	8	1,25,426	99,367	3	99,364
7. Kirthimanar		11,916	676	11,916	676	1,302	35	87,586	70,475	..	70,475
8. Virasolan		37,309	4,214	37,309	4,214	1,575	57	2,35,214	1,80,042	..	1,80,042
9. Puthar		10,697	339	10,697	339	683	4	75,629	60,269	..	60,269
10. Solasudamaniyar		9,661	360	9,661	360	520	..	75,424	61,077	..	61,077
11. Manjavoikal		14,984	1,221	14,984	1,221	1,467	..	78,038	57,676	..	57,676
12. Vellappur		18,650	440	18,650	440	757	..	1,16,082	88,992	2	88,990
13. Mahimalayar		11,639	852	11,639	852	661	..	63,224	46,510	..	46,510
14. Petharasanar		2,020	13	2,020	13	108	..	14,147	11,258	..	11,258

Abstract statement of the extent of irrigation and the revenue derived from Irrigation Works for the fasli year 1307 (1897-98)—*cont.*

Class and names of systems and canals.	Expected ultimate area of irrigation.	Area occupied.		Area charged	as irrigated.	Area of lands irrigated free of charge included in columns 3 and 4.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10	11	12
CLASS I.—PRODUCTIVE PUBLIC WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Cauvery Anikat System—cont.											
Cauvery section—*cont.* 15. Vanjiyar	Not fixed.	3,814	263	3,814	263	304	..	24,157	18,880	..	18,880
16. Noolar		10,544	656	10,539	656	383	..	67,073	51,727	30	51,697
17. South Puthar		1,271	38	1,271	38	..	..	7,214	5,312	..	5,312
18. Manniyar		36,892	4,127	36,870	4,127	3,689	214	2,70,625	2,16,485	58	2,16,427
Total, Cauvery Section	..	482,256	78,667	481,462	78,601	53,129	6,726	33,13,471	26,39,961	5,888	26,33,173
Vennar section .. 1. Vennar	Not fixed.	94,381	8,996	94,369	8,996	9,639	175	5,74,571	4,46,293	245	4,46,048
2. Vettar		47,066	2,872	47,066	2,872	4,625	25	3,07,199	2,42,032	113	2,41,919
3. Odambogyar		50,984	687	50,984	687	7,635	14	2,68,334	2,01,791	668	2,01,123
4. Koraiar		52,874	3,685	52,860	3,685	6,520	167	2,25,962	1,55,627	1,119	1,54,508
5. Pamaniyar		38,386	2,842	38,386	2,842	8,130	299	1,58,797	1,12,617	171	1,12,446
6. Pandavayar		21,517	356	21,517	356	683	..	1,35,230	1,03,869	51	1,03,818
7. Vellayar		32,429	1,181	32,374	1,181	1,585	..	1,71,276	1,25,000	1,214	1,23,786
8. Athiveraramanar		4,161	96	4,161	96	571	..	21,865	16,456	9	16,447
9. Harichendranadi		28,324	1,307	28,119	1,307	1,019	10	1,36,633	95,854	1,856	93,998
10. Mulliyar		32,409	2,070	32,218	2,070	6,960	65	1,31,386	91,707	1,986	89,721
11. Iyanar		3,404	195	3,404	195	442	..	16,384	11,798	2	11,796
Total, Vennar Section	..	405,935	24,287	405,458	24,287	47,809	755	21,47,637	16,03,044	7,434	15,95,610
Total, Cauvery Anikat System	..	888,191	102,954	886,920	102,888	100,938	7,481	54,61,108	42,42,105	13,322	42,28,783
Srivaikuntam Anikat System.											
1. North main canal	25,000	10,565	8,977	10,172	8,975	501	253	99,743	88,892	4,002	84,890
2. South do.		12,220	11,722	11,408	11,113	680	375	1,26,312	1,11,499	6,651	1,04,848
Total, Srivaikuntam Anikat	25,000	22,785	20,699	21,580	20,088	1,181	628	2,26,055	2,00,391	10,653	1,89,738
Barur tank project	6,887	2,664	1,757	2,664	1,757	130	130	14,056	11,631	9	11,622
Rushikulya project	Not fixed.	67,996	1,333	65,925	1,333	8,911	18	1,68,385	1,18,471	4,819	1,13,652
Penner Anikat System.											
1. Jaffer Saib canal	69,385	33,458	2,168	33,396	2,168	5,951	..	1,79,226	1,43,371	723	1,42,648
2. Sarvepalli canal		20,581	1,250	20,428	1,250	3,053	..	1,00,754	79,053	850	78,203
3. Kistnapatam canal		6,970	485	6,970	485	2,712	..	27,932	22,933	84	22,849
4. Nellore tank		7,089	51	5,716	51	2,019	..	30,170	23,183	6,586	16,597
Total, Pennér Anikat System	69,385	68,098	3,954	66,510	3,954	13,735	..	3,38,082	2,68,540	8,243	2,60,297
Sangam Anikat System.											
1. Duvvuru canal	94,000	5,889	810	5,640	810	826	..	33,181	24,943	1,541	23,402
2. Kanigiri canal		68,476	3,702	66,125	3,702	9,478	..	3,60,394	2,90,440	12,028	2,78,412
Total, Sangam Anikat System	94,000	74,365	4,512	71,765	4,512	10,304	..	3,93,575	3,15,383	13,569	3,01,814
Kurnool-Cuddapah Canal.											
1. Kurnool district	Not fixed.	23,113	3,396	23,113	3,396	..	..	*† 78,035	† 78,035	219	77,816
2. Cuddapah do.		16,169	4,486	16,169	4,486	..	..	* 65,094	65,094	1,123	63,971
Total, Kurnool-Cuddapah Canal	..	39,282	7,882	39,282	7,882	..	..	1,43,129	1,43,129	1,342	1,41,787
Periyar Project	..	69,966	19,856	69,394	19,749	3,531	460	4,23,755	3,69,946	8,190	3,61,756
CLASS II.—AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.											
Palar Anikat System.											
Northern section .. 1. Kaveripak canal	..	19,493	6,065	18,947	6,027	4,060	932	91,863	70,418	2,666	67,752
2. Mahendravadi canal	..	5,990	1,116	5,740	1,101	501	63	29,641	23,527	1,284	22,243
3. Govindavadi do.	..	7,450	1,029	7,302	1,014	1,114	110	31,584	23,245	685	22,560
4. Kambakal do.	..	18,487	2,145	18,100	2,145	2,981	137	59,379	42,403	2,499	39,904
Total, Northern Section	..	51,420	10,355	50,089	10,287	8,656	1,242	2,11,967	1,59,593	7,134	1,52,459
Southern section .. 1. Dusi canal	..	19,628	10,799	19,471	10,799	2,512	2,461	1,06,892	81,861	1,041	80,820
2. Chakramallur canal	..	3,624	1,711	3,565	1,641	188	159	20,832	15,697	544	15,153
3. Kalavai canal	..	1,559	409	1,559	409	86	72	7,526	5,592	2	5,590
Total, Southern Section	..	24,811	12,919	24,595	12,849	2,786	2,692	1,35,250	1,03,150	1,587	1,01,563
Total, Palar Anikat System	68,700	76,231	23,274	74,684	23,136	11,442	3,934	3,47,217	2,62,743	8,721	2,54,022
Pelandorai anikat system	7,541	9,952	353	9,860	352	421	..	53,713	37,077	1,603	35,474
Chembrambakam tank	18,000	13,061	4,116	11,705	3,986	1,996	161	68,862	50,821	7,201	43,620

* Represent only water-rate.

† Exclusive of Rs. 276 value of water supplied to the Kurnool Municipality.

Abstract statement of the extent of irrigation and the revenue derived from Irrigation Works for the fasli year 1307 (1897–98)—*cont.*

Class and names of systems and canals.	Expected ultimate area of irrigation.	Area occupied.		Area charged as irrigated.		Area of lands irrigated free of charge included in columns 3 and 4.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.				
1	2	3	4	5	6	7	8	9	10	11	12
CLASS II.—AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
Madras Water-supply and Irrigation Extension Project.											
1. Sholavaram tank	9,852	3,187	806	3,187	806	506	10	12,760	8,850	279	8,571
2. Red Hills do.		4,354	2,040	4,354	2,040	1,075	415	17,305	13,728	64	13,664
Total, Madras Water-supply and Irrigation Extension Project	9,852	7,541	2,846	7,541	2,846	1,581	425	30,065	22,578	343	22,235
Cumbum tank	Not fixed.	5,736	4,183	5,736	2,456	1,777	1,358	46,704	40,407	4,231	36,176
Tadepalli channel		14,298	558	14,220	557	471	..	1,24,370	1,03,359	403	1,02,956
Arakankottai do.		4,128	29	4,105	29	107	..	33,638	28,021	119	27,902
Kalingaroyen do.		11,319	10,197	11,319	10,197	819	819	1,19,313	1,05,433	57	1,05,376
Vallur anikat		5,173	247	5,059	247	2,779	16	14,258	9,108	722	8,386
Cheyaru do.		21,396	12,824	19,703	12,802	1,819	1,712	1,14,079	83,793	11,792	72,001
Poiney do.		22,452	5,795	22,416	5,791	2,088	150	1,17,251	88,008	672	87,336
Lower Coleroon anikat		108,988	3,985	108,967	3,971	8,298	157	6,41,961	3,97,556	248	3,97,308
Shatyatope do.		30,289	4,758	29,022	4,690	1,749	..	1,72,448	1,16,814	5,196	1,11,618
Vriddhachalam do.		6,118	405	6,117	405	103	..	36,770	24,210	22	24,188
Mehmattur do.		3,915	105	3,915	105	30	..	25,394	16,355	..	16,355
Tirukkóyilúr do.		23,229	3,122	22,911	3,111	1,498	..	1,34,383	95,642	1,866	93,776
Marudur do.		17,564	16,629	17,506	16,629	655	449	2,16,067	1,89,195	2,217	1,86,978
Nandyar channel		4,928	2,306	4,889	2,287	43	..	27,189	20,369	265	20,104
Ganjám Minor Rivers System.											
Langulia River—1. Doosi main channel	Not fixed.	3,973	1,308	3,973	1,308	1,139	20	18,101	12,088	33	12,055
Langulia River—2. Wadada do		9,945	317	9,945	317	3,725	21	32,022	19,598	95	19,503
Total, Langulia River	..	13,918	1,625	13,918	1,625	4,864	41	50,123	31,686	128	31,558
Vamsadhara River—1. Purushottapur main channel	Not fixed.	3,316	52	3,316	52	903	..	11,657	7,343	123	7,220
Vamsadhara River—2. Byree do.		11,663	391	11,663	391	2,731	12	39,330	25,249	286	24,963
Vamsadhara River—3. Nagarikatakam do.		2,776	427	2,759	427	595	..	11,250	7,064	266	6,798
Vamsadhara River—4. Jalmur do.		8,268	2,522	8,207	2,522	2,253	145	35,907	23,743	259	23,484
Vamsadhara River—5. Looklam do.		3,568	91	3,568	91	3,394	..	3,818	2,523	..	2,523
Vamsadhara River—6. Polaky do.		11,024	816	10,924	816	3,450	81	38,880	24,487	360	24,127
Total, Vamsadhara River	..	40,615	4,299	40,437	4,299	13,326	238	1,40,842	90,409	1,294	89,115
Garibula Gedda hill stream	Not fixed.	1,917	346	1,916	346	165	33	5,713	3,383	72	3,311
Total, Ganjám Minor Rivers System	..	56,450	6,270	56,271	6,270	18,355	312	1,96,678	1,25,478	1,494	1,23,984
CLASS III.—AGRICULTURAL WORKS FOR WHICH INDIVIDUALLY A CONTINUOUS RECORD IS TO BE MAINTAINED.											
Vizagapatam District.											
Sarada River—1. Gódári anikat	Not fixed.	6,184	3,956	6,119	3,956	3,939	1,853	22,586	16,729	672	16,057
Sarada River—2. Mamidivada do.		1,889	980	1,889	980	1,337	429	5,614	4,061	3	4,058
Sarada River—3. Dimili do.		869	867	869	867	574	574	3,196	2,129	..	2,129
Sarada River—4. Kattukoola do.		1,282	1,282	1,281	1,282	652	652	5,544	3,796	18	3,778
Sarada River—5. Kumarapalli do.		1,398	1,392	1,378	1,392	462	462	6,258	4,449	48	4,401
Sarada River—6. Marripallem do.		760	749	750	749	191	191	3,105	1,921	17	1,904
Total, Sarada River	..	12,382	9,226	12,286	9,226	7,155	4,161	46,303	33,085	758	32,327
Varaha River—1. Pallaparti anikat	Not fixed.	3,255	2,591	3,252	2,591	1,829	1,226	13,296	9,579	15	9,564
Varaha River—2. Mallelagedda do.		610	604	610	604	186	186	1,875	1,242	1	1,241
Varaha River—3. Gubbada do.		2,020	1,593	2,020	1,593	192	192	8,803	6,900	18	6,882
Varaha River—4. Duggada do.		1,247	1,128	1,247	1,128	204	204	8,335	6,260	19	6,241
Total, Varaha River	..	7,132	5,916	7,129	5,916	2,411	1,808	32,309	23,981	53	23,928
Total, Vizagapatam District	..	19,514	15,142	19,415	15,142	9,566	5,969	78,612	57,066	811	56,255
Salem District.											
Pennagundapuram tank	Not fixed.	433	427	433	427	..	..	1,818	1,456	..	1,456
Tinnevelly District.											
Támbraparni River—1. Ariyanayakapuram anikat	Not fixed.	5,337	5,116	5,334	5,116	689	312	73,201	66,070	963	65,107
Támbraparni River—2. Pahlavur do.		8,420	7,717	8,420	7,717	457	132	1,07,213	95,534	645	94,889
Támbraparni River—3. Suttamalli do.		6,320	5,511	6,320	5,511	787	411	72,606	64,843	205	64,638
Támbraparni River—4. Kodamilalaghien do.		3,138	2,642	3,138	2,642	1,333	624	20,069	16,732	89	16,643
Támbraparni River—5. Nathiyuni do.		2,489	2,351	2,489	2,351	920	743	22,007	20,035	24	20,011
Támbraparni River—6. Kannadien do.		11,395	11,122	11,395	11,122	476	384	1,82,400	1,62,276	1,576	1,60,700
Total, Tinnevelly District	..	37,099	34,459	37,096	34,459	4,662	2,606	4,77,496	4,25,490	3,502	4,21,988

Abstract statement of the extent of irrigation and the revenue derived from Irrigation Works for the fasli year 1307 (1897-98)—*cont.*

Class and names of systems and canals.	Expected ultimate area of irrigation.	Area occupied.		Area charged as irrigated.			Total, land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
		First crop.	Second crop.	First crop.	Area of lands irrigated free of charge included in columns 3 and 4. First crop.	Area of lands irrigated free of charge included in columns 3 and 4. Second crop.				
1	2	3	4	5	7	8	9	10	11	12
		ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
CLASS III.—AGRICULTURAL WORKS FOR WHICH INDIVIDUALLY A CONTINUOUS RECORD IS TO BE MAINTAINED—*cont.*										
Chingleput District.										
Madurántakam tank	Not fixed.	5,951	917	5,401	917	774	20,351	13,775	2,178	11,597
South Arcot District.										
Myorenady .. Kattumaiúr anikat	Not fixed.	490	80	490	80	1	3,586	2,372	..	2,372
Gadilam River .. 1. Tiruvadi anikat	Not fixed.	7,265	2,124	7,245	2,124	761	50,448	36,614	78	36,541
2. Vanamadevi anikat		804	227	804	227	57	7,030	4,981	6	4,975
3. Tiruvendipuram anikat		1,991	717	1,991	717	630	15,382	11,281	347	10,934
Total, Gadilam River	..	10,060	3,068	10,040	3,068	1,448	72,860	52,876	426	52,450
Kullar River .. Vikravandi anikat	Not fixed.	2,341	128	2,312	125	56	12,386	8,371	162	8,209
Total, South Arcot District	..	12,891	3,276	12,842	3,273	1,505	88,832	63,619	588	63,031
Coimbatore District.										
1. Cullapuram anikat channel		1,436	1,422	1,436	1,422	65	6,693	5,790	..	5,790
2. Comaralingam do.		2,621	2,150	2,621	2,150	88	10,845	8,911	..	8,911
3 Kannadiputtur do.		609	603	609	603	97	5,288	4,641	..	4,641
4. Sholamadevi do.		525	525	525	525	118	4,683	4,094	..	4,094
5. Kuddattur do.		1,112	1,108	1,112	1,108	140	8,422	7,422	20	7,402
6. Kanniyur do.		390	287	390	287	27	3,340	2,935	..	2,935
7. Korattalavu do.		582	572	582	572	44	4,809	4,224	..	4,224
8. Alinghirur do.		1,034	768	1,034	768	121	11,029	9,964	..	9,964
9. Dalavoyapatnam do.		929	400	929	400	200	5,618	4,570	..	4,570
10. Dhárápuram do.		2,449	1,416	2,449	1,416	349	24,939	21,412	..	21,412
Amaravati River. 11. Calinjeevadi do.	Not fixed.	3,225	1,385	3,225	1,385	292	23,368	19,479	..	19,479
12. Nanjatalayur do.		365	363	365	363	53	2,553	2,133	..	2,133
13. Chinna Dhárápuram do.		1,926	1,878	1,926	1,878	168	10,082	8,599	..	8,599
14. Sundakayalpalliam do.		260	151	260	151	3	1,605	1,323	..	1,323
15. Nanjakalakurchi do.		369	368	369	368	9	2,118	1,785	16	1,769
16. Pallapalliam do.		3,828	3,374	3,828	3,374	201	23,410	19,858	86	19,772
17. Tirumanallur Korambu do.		928	879	928	879	84	4,887	4,242	144	4,098
18. Karúr Balambapuram do.		769	609	769	609	562	1,391	1,224	9	1,215
19. Panchanadevi do.		275	273	275	273	16	1,898	1,587	..	1,587
20. Sonapatty		564	548	564	548	46	4,352	3,662	59	3,603
21. Puliyur		1,282	1,268	1,279	1,266	142	7,718	6,526	42	6,484
22. Coyenbully		918	828	918	828	83	5,007	4,255	137	4,118
Total, Amaravati River	..	26,396	21,175	26,393	21,173	2,908	2,371	1,74,653	1,48,636	513	1,48,123
CLASS IV.—WORKS FOR WHICH NEITHER CAPITAL AND REVENUE ACCOUNTS NOR A CONTINUOUS RECORD OF EXPENDITURE IS KEPT.										
Imperial.										
1. Ganjám	Not fixed.	57,132	1,937	55,987	1,937	10,034	190	1,67,526	86,999	6,174	80,825
2. Vizagapatam		33,972	28,920	33,710	28,915	13,272	9,446	1,49,463	1,08,147	1,442	1,06,705
3. Gódávari		47,608	4,116	46,077	4,104	15,660	274	1,61,930	1,03,498	3,839	99,659
4. Kistna		16,224	..	13,183	..	1,265	..	71,497	48,261	13,907	34,354
5. Nellore		95,592	6,411	65,993	6,309	12,946	442	4,55,844	3,57,649	1,40,492	2,17,157
6. Cuddapah		60,986	25,381	57,190	25,285	21,128	4,087	3,50,946	2,89,484	22,424	2,67,060
7. Anantapur		55,377	20,958	51,495	20,958	9,795	3,355	2,69,079	2,32,402	10,204	2,22,198
8. Bellary		32,618	8,233	32,179	8,227	6,733	1,440	2,33,566	2,01,767	2,375	1,99,392
9. Kurnool		21,977	5,061	21,193	5,061	7,571	1,675	1,08,886	84,927	6,456	78,471
10. Chingleput		235,544	26,571	192,098	25,481	23,070	1,359	8,22,961	5,76,238	1,41,142	4,35,096
11. North Arcot		61,628	23,141	55,738	22,639	6,379	3,937	3,26,756	2,40,105	29,891	2,10,214
12. South Arcot		80,044	14,955	75,460	14,758	3,814	283	4,48,728	3,15,532	23,105	2,92,427
13. Tanjore		18,374	1,700	18,027	1,700	3,381	23	62,840	46,661	1,249	45,412
14. Trichinopoly		80,508	30,054	78,589	29,956	4,940	1,274	6,05,812	4,48,257	15,151	4,33,106
15. Madura		48,442	24,145	46,747	23,821	2,497	1,199	2,70,077	2,28,019	8,349	2,19,670
16. Tinnevelly		56,006	34,164	54,360	33,841	3,494	1,897	4,28,254	3,70,327	10,315	3,60,012
17. Coimbatore		35,628	14,274	35,333	13,981	2,901	870	2,18,178	1,81,771	2,684	1,79,087
18. Salem		32,201	30,781	31,669	30,235	2,941	2,924	2,06,281	1,51,862	3,928	1,47,934
Total, Imperial	..	1,067,861	300,802	964,928	297,208	151,821	34,275	53,58,624	40,71,906	4,43,127	36,28,779

Abstract statement of the extent of irrigation and the revenue

Class and names of systems and canals.	Expected ultimate area of irrigation.	Area occupied.		Area charged
		First crop.	Second crop.	First crop.
1	2	3	4	5
CLASS IV.—WORKS FOR WHICH NEITHER CAPITAL AND REVENUE ACCOUNTS NOR A CONTINUOUS RECORD OF EXPENDITURE IS KEPT—*cont.*		ACS.	ACS.	ACS.
Minor.				
1. Ganjám	Not fixed.	58,214	3,998	57,485
2. Vizagapatam		50,250	45,905	50,055
3. Gódávari		57,685	1,739	55,951
4. Kistna		29,559	543	28,177
5. Nellore		35,692	5,337	24,851
6. Cuddapah		161,775	43,688	139,136
7. Anantapur		81,189	31,628	77,554
8. Bellary		23,244	9,924	22,865
9. Kurnool		31,101	4,542	30,036
10. Chingleput		118,922	12,024	92,611
11. North Arcot		160,311	69,055	150,988
12. South Arcot		205,894	40,701	193,954
13. Tanjore		36,790	2,701	35,977
14. Trichinopoly		48,887	18,139	46,623
15. Madura		85,154	18,447	78,147
16. Tinnevelly		91,903	47,275	84,130
17. Coimbatore		14,774	4,901	14,038
18. Salem		82,741	74,275	81,106
Total, Minor ..	..	1,364,085	434,822	1,263,684
Grand Total (Imperial and Minor) ..	..	2,431,946	735,624	2,228,612

derived from Irrigation Works for the fasli year 1307 (1897-98)—*cont.*

as irrigated.	Area of lands irrigated free of charge included in columns 3 and 4.		Total, land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
Second crop.	First crop.	Second crop.				
6	7	8	9	10	11	12
ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.
3,994	10,274	319	1,33,935	72,646	1,551	71,095
45,851	13,780	13,665	2,11,922	1,49,038	952	1,48,086
1,728	14,477	81	1,31,553	92,180	3,415	88,765
541	2,099	8	1,38,476	1,00,063	10,580	89,483
5,310	5,831	386	1,48,961	1,16,202	52,364	63,838
43,309	50,797	9,852	6,54,179	5,33,896	78,265	4,55,631
31,621	13,130	3,547	3,30,603	2,78,729	16,127	2,62,602
9,923	5,117	2,584	97,327	82,275	2,148	80,127
4,512	9,114	968	1,33,145	1,05,387	10,952	94,435
11,212	14,320	747	3,66,319	2,52,980	82,353	1,70,627
68,101	26,824	13,696	8,22,472	6,05,790	47,432	5,58,358
40,227	9,616	769	10,82,938	7,49,703	55,286	6,94,417
2,696	3,539	1	1,15,678	83,093	3,627	79,466
18,134	11,600	3,220	1,74,115	1,24,870	7,072	1,17,798
17,982	4,441	864	3,46,026	2,71,869	24,601	2,47,268
45,384	6,889	2,217	5,46,650	4,70,986	52,722	4,18,264
4,607	1,639	250	64,447	51,048	3,390	47,658
73,086	6,983	5,672	4,01,361	2,85,456	10,228	2,75,228
428,218	210,470	58,846	59,00,107	44,26,211	4,63,065	39,63,146
725,426	362,291	93,121	1,12,58,731	84,98,117	9,06,192	75,91,925

APPENDIX III.

COMPARATIVE statement of the area irrigated and the revenue derived in each taluk under the Kurnool-Cuddapah canal for faslis 1306 (1896–97) and 1307 (1897–98).

Taluks.	Area irrigated. First crop. Wet.	First crop. Dry.	Second crop. Wet.	Second crop. Dry.	Demand.	Remissions.	Net demand.
1	2	3	4	5	6	7	8
Kurnool.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.
Nandyal 1306	3,928	9,069	151	1,184	29,044	..	29,044
1307	2,997	1,088	611	214	19,021	17	19,004
Difference ..	— 931	— 7,981	+ 460	— 970	— 10,023	+ 17	— 10,040
Sirvel 1306	2,344	11,981	17	425	24,133	..	24,133
1307	2,138	5,170	64	279	17,993	29	17,964
Difference ..	— 206	— 6,811	+ 47	— 146	— 6,140	+ 29	— 6,169
Koilkuntla 1306	208	5,997	12	128	7,565	..	7,565
1307	314	501	39	30	2,263	2	2,261
Difference ..	+ 106	— 5,496	+ 27	— 98	— 5,302	+ 2	— 5,304
Ramallakot 1306	1,872	810	619	152	10,196	..	10,196
1307	1,745	896	701	141	11,250	..	11,250
Difference ..	— 127	+ 86	+ 82	— 11	+ 1,054	..	+ 1,054
Nandikotkur .. 1306	5,118	20,181	517	905	42,043	105	41,938
1307	†4,379	†3,885	† 683	† 634	†27,508	† 171	†27,337
Difference ..	— 739	— 16,296	+ 166	— 271	— 14,535	+ 66	— 14,601
Total .. 1306	13,470	48,038	1,316	2,794	1,12,981	105	1,12,876
1307	11,573	11,540	2,098	1,298	* 78,035	219	77,816
Difference ..	— 1,897	— 36,498	+ 782	— 1,496	— 34,946	+ 114	— 35,060
Cuddapah.							
Cuddapah 1306	6,987	1,339	2,027	432	35,398	1,192	34,206
1307	6,849	1,215	2,471	304	36,551	1,061	35,490
Difference ..	— 138	— 124	+ 444	— 128	+ 1,153	— 131	+ 1,284
Proddatur 1306	3,313	5,192	42	1,538	26,860	55	26,805
1307	3,571	4,246	94	1,617	28,006	62	27,944
Difference ..	+ 258	— 946	+ 52	+ 79	+ 1,146	+ 7	+ 1,139
Jammalamadugu .. 1306	11	727	..	..	854	..	854
1307	105	183	..	..	537	..	537
Difference ..	+ 94	— 544	..	..	— 317	..	— 317
Total .. 1306	10,311	7,258	2,069	1,970	63,112	1,247	61,865
1307	10,525	5,644	2,565	1,921	65,094	1,123	63,971
Difference ..	+ 214	— 1,614	+ 496	— 49	+ 1,982	— 124	+ 2,106
Grand Total .. 1306	23,781	55,296	3,385	4,764	1,76,093	1,352	1,74,741
1307	22,098	17,184	4,663	3,219	1,43,129	1,342	1,41,787
Difference ..	— 1,683	— 38,112	+ 1,278	— 1,545	— 32,964	— 10	— 32,954

* Exclusive of Rs. 276 being value of water supplied to the Kurnool Municipality.
† Inclusive of irrigation in certain villages of the Nizam's Dominions.

APPENDIX IV.

STATEMENT showing the total area actually irrigated by flow or lift under classes I and II works and the quantity and the value of crops raised thereon during 1897–98.

Name of system.	Area irrigated. First crop. Flow.	First crop. Lift.	Second crop. Flow.	Second crop. Lift.	Total.	Area irrigated with different crops. Paddy. Total outturn in tons.	Paddy. Total value.	Paddy. Value of average outturn per acre.	Ragi. Extent.	Ragi. Total outturn in tons.	Ragi. Total value.	Ragi. Value of average outturn per acre.	Other crops. Both seasons. Extent.	Other crops. Value.	Other crops. Value of average outturn per acre.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Class I—Works.	ACS.	ACS.	ACS.	ACS.	ACS.	TONS.	RS.	RS.	ACS.	TONS.	RS.	RS.	ACS.	RS.	RS.
1. Gódávari anikat	627,500	10,869	160,495	6,135	804,999	2,27,15,663	34·1	4,544	1,121	89,044	19·6	665,885	21,58,016	17·7
2. Kistna do.	512,650	5,351	365	83	518,459	1,86,87,434	36·6	1,794	229	17,805	9·9	510,323	1,61,996	33·6
3. Cauvery do.	812,892	42,520	93,802	5,305	954,519	2,93,24,006	32·6	20,168	4,685	2,58,287	12·8	899,171	4,87,607	15·0
4. Pennér do.	62,865	629	3,953	1	67,448	16,66,024	26·7	840	136	9,673	11·6	62,488	14,319	4·9
5. Sangam do.	67,219	904	4,511	..	72,634	17,26,933	26·4	1,146	170	12,091	10·6	65,350	2,804	9·5
6. Srivaikuntam anikat ..	19,212	831	17,433	601	38,077	6,71,416	18·4	68	6	377	5·5	36,507	8,387	8·8
7. Barur tank project ..	2,597	11	1,011	..	3,619	1,00,513	38·7	277	53	3,162	11·4	2,979	3,192	8·8
8. Rushikulya do. ..	66,875	1,078	1,261	72	69,286	16,55,217	24·5	1,213	100	8,244	6·8	67,462	23,814	39·4
9. Kurnool-Cuddapah canal ..	37,709	617	7,680	98	46,004	8,76,404	37·4	3,744	848	56,883	15·2	23,380	18,746	5,97,066	31·8
10. Periyar project	66,667	661	18,756	60	85,144	16,44,646	21·6	3,275	441	26,662	8·1	76,142	5,627	72,866	12·9
Class II—Works.															
11. Fálár anikat	68,598	1,169	20,751	464	90,982	26,481	17,72,610	22·7	6,852	636	42,196	6·2	4,580	28,083	6·1
12. Pelandorai anikat ..	9,247	527	279	143	10,096	3,148	1,93,245	21·1	347	52	3,284	9·3	330	12,257	37·1
13. Chembrambakkam tank ..	11,200	131	4,059	1	15,391	2,869	2,00,255	15·9	712	58	4,265	6·0	1,581	47,657	30·1
14. Madras water-supply and irrigation extension project ..	6,860	347	2,703	83	10,043	2,333	1,63,412	18·6	746	79	5,869	7·8	433	3,559	8·2
15. Cumbum tank	5,527	30	3,876	..	9,433	2,012	1,68,164	30·4	432	66	4,886	11·3	3,800	38,617	8·8
16. Thadpalli channel ..	14,050	147	433	125	14,755	8,187	6,62,629	40·3	41	6	361	8·8	741	32,928	44·4
17. Arukankottai channel ..	4,089	62	18	11	4,130	2,674	1,83,763	45·2	6	1	60	10·0	58	1,752	30·2
18. Kalingarayan do.	9,465	1,804	8,094	1,091	20,454	16,159	6,98,149	42·0	1,921	292	17,556	9·1	1,607	1,30,409	68·4
19. Vallur anikat	4,057	392	212	35	4,696	682	47,770	12·5	266	16	1,176	4·6	627	1,486	2·7
20. Cheyaru do.	19,293	449	7,500	83	27,415	7,709	5,10,615	28·7	3,204	311	20,026	6·3	1,383	9,182	6·6
21. Poiney do.	20,633	345	5,440	67	26,475	7,504	4,96,939	24·1	4,055	389	25,049	6·2	1,778	20,943	11·4
22. Lower Coleroon anikat ..	105,650	1,632	3,722	263	111,267	54,614	33,52,572	31·3	1,828	465	28,226	15·4	2,011	22,221	11·0
23. Shatiatope do.	28,335	647	4,698	157	33,737	11,852	7,27,555	24·7	2,067	373	23,195	11·2	1,157	18,715	16·2
24. Vriddhachalam do.	5,988	24	401	..	6,413	2,717	1,66,788	28·3	318	64	3,580	12·5	191	6,468	33·6
25. Mahmattur do.	3,871	39	68	37	4,015	2,074	1,27,816	34·4	90	20	1,244	13·8	225	2,804	10·2
26. Marudur do.	16,818	262	13,953	180	31,213	8,551	5,87,644	20·6	224	24	1,610	6·7	2,167	18,713	8·6
27. Tirukkóyilúr do.	22,118	416	3,128	68	25,630	7,770	4,76,974	21·6	1,942	348	21,040	11·1	1,189	22,995	27·8
28. Ganjám minor rivers system ..	54,094	2,122	5,981	285	62,482	20,19,020	27·1	1,645	151	12,449	7·6	6,208	28,176	4·5
29. Nandyar channel	4,575	293	2,096	112	7,076	1,18,164	25·7	1,199	194	11,280	9·4	1,186	39,839	33·6

Note.—(1) The area under "both seasons" is included under first and second crops.
(2) The areas in columns 2 to 6 include extent under withered crops and exclude waste charged and an extent of 606 acres under first and second crops irrigated by the Kurnool-Cuddapah canal in the Nizam's Dominions.

APPENDIX V.

STATEMENT showing the incidence of water-rate under classes I and II works for fasli 1307 (1897–98).

—	First crop.																				Second crop.			
	Government.						Zemindari.					Inam.												
								Charged.						Charged.								Charged.		
	Extent of wet lands.	Water-rate of wet lands.	Rate per acre.	Extent of dry crops irrigated.	Water-rate of dry crops irrigated.	Rate per acre.	Irrigated free of charge for water.	Extent of wet lands.	Water-rate of wet lands.	Rate per acre.	Extent of dry crops irrigated.	Water-rate of dry crops irrigated.	Rate per acre.	Irrigated free of charge for water.	Extent of wet lands.	Water-rate of wet lands.	Rate per acre.	Extent of dry crops irrigated.	Water-rate of dry crops irrigated.	Rate per acre.	Irrigated free of charge for water.	Extent.	Water-rate.	Rate per acre.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Class I—Works.	ACS.	RS.		ACS.	RS.		ACS.	ACS.	RS.		ACS.	RS.		ACS.	ACS.	RS.		ACS.	RS.		ACS.	ACS.	RS.	
1. Gódávari anikat	316,158	15,28,022	4·83	7,025	20,847	2·97	55,240	41,313	2,05,807	4·98	2,343	9,335	3·98	72,503	142,809	7,14,739	5·00	7,077	22,541	3·19	937	166,217	6,04,014	3·63
2. Kistna do.	308,916	15,54,332	5·03	3,823	17,286	4·52	18,572	79,014	4,09,434	5·18	3,671	13,325	3·63	37,884	68,973	3,55,934	5·16	2,066	9,925	4·80	..	455	1,978	4·35
3. Cauvery do.	751,829	37,48,521	4·99	25,993	64,458	2·48	413	..	..	..	..	..	..	100,525	5,764	23,139	4·01	3,667	9,443	2·58	7,481	95,473	3,53,761	3·71
4. Penner do.	50,725	2,28,536	4·51	397	933	2·35	..	..	..	..	..	..	..	13,735	2,831	11,351	4·01	410	1,247	3·04	..	3,954	10,921	2·76
5. Sangam do.	61,703	2,84,041	4·60	873	1,967	2·25	..	..	..	..	..	..	..	10,304	1,262	5,004	3·97	223	528	2·37	..	4,512	13,398	2·97
6. Srivaikuntam anikat ..	20,314	1,26,743	6·24	138	431	3·12	117	753	2,950	3·92	5	21	4·20	1,064	391	1,570	4·02	3	8	2·67	628	20,071	67,111	3·34
7. Barur tank project . ..	2,388	8,838	3·70	47	118	2·51	..	..	..	..	13	52	4·00	130	57	201	3·53	29	114	3·93	130	1,627	2,163	1·33
8. Rushikulya do.	38,443	68,822	1·79	2,504	6,105	2·44	1,751	8,073	16,852	2·09	1	2	2·00	7,160	8,912	18,063	2·03	1,152	2,668	2·32	18	1,315	2,086	1·59
9. Kurnool-Cuddapah canal ..	14,830	58,088	3·92	11,856	21,733	1·83	..	* 425	* 1,677	*3·95	* 77	* 77	* 1·00	..	6,843	25,917	3·79	5,095	9,566	1·88	..	7,882	20,249	2·57
10. Periyár project	60,216	2,86,436	4·76	214	658	3·07	447	5,224	21,579	4·13	2	12	6·00	3,084	685	2,762	4·03	94	308	3·28	460	19,396	55,583	2·87
Class II—Works.																								
11. Palar anikat	63,490	2,04,851	3·23	826	2,090	2·53	..	..	..	..	..	..	..	11,442	249	462	1·86	224	365	1·63	3,934	19,340	48,703	2·52
12. Pelandorai anikat	8,700	32,927	3·78	258	784	3·04	..	..	..	..	..	..	..	421	557	2,146	3·85	16	37	2·31	..	353	1,017	2·88
13. Chembrambakkam tank ..	10,944	38,445	3·51	96	187	1·95	..	..	..	..	..	..	..	1,996	4	21	5·25	21	75	3·57	161	3,955	10,554	2·67
14. Madras water supply and irrigation extension project	5,898	16,041	2·72	38	88	2·32	131	..	..	..	..	..	..	1,450	20	68	3·40	4	12	3 00	425	2,421	4,832	2·00
15. Cumbum tank	3,680	22,928	6·23	200	476	2·38	..	..	..	..	..	..	..	1,777	68	294	4·32	11	52	4·73	1,358	2,825	11,624	4·11
16. Tadepalli channel	13,468	98,672	7·33	151	381	2·52	..	..	..	..	..	..	..	471	95	410	4·32	113	444	3·93	..	558	2,017	3·61
17. Arakankottai do.	3,919	27,194	6·94	36	93	2·58	..	..	..	..	..	..	..	107	42	163	3·88	24	91	3·79	..	29	93	3·21
18. Kalingaroyan do.	8,176	58,198	7·12	1,566	4,835	3·09	..	..	..	..	..	..	..	819	235	950	4·04	523	1,783	3·41	819	9,378	35,368	3·77
19. Vallur anikat	2,273	6,350	2·79	..	..	..	..	..	..	..	..	..	..	2,779	44	164	3·73	77	221	2·87	16	231	509	2·20
20. Cheyaru do.	19,133	61,215	3·20	249	619	2·49	..	..	..	..	..	..	..	1,819	150	461	3·07	45	122	2·71	1,712	11,112	17,246	1·55
21. Poiney do.	19,568	69,999	3·58	688	1,712	2·49	..	..	..	..	..	..	..	2,088	57	225	3·95	51	142	2·78	150	5,645	14,604	2·59
22. Lower Coleroon anikat ..	98,145	3,72,273	3·79	1,400	3,556	2·54	..	..	..	..	..	..	..	8,298	1,001	3,736	3·73	144	403	2·80	157	3,828	12,216	3·19
23. Shatiatope do. ..	27,404	98,286	3·59	899	2,520	2·80	..	..	..	..	..	..	..	1,749	187	740	3·96	50	178	3·56	..	4,758	14,213	2·99
24. Vriddhachalam anikat ..	5,863	22,273	3·80	107	340	3·18	..	..	..	..	..	..	..	103	36	132	3·67	9	27	3·00	..	405	1,333	3·29
25. Mehamattur do. ..	3,497	14,666	4·19	115	234	2·03	..	..	..	..	..	..	..	30	248	983	3·96	25	88	3·52	..	105	371	3·53
26. Marudur do. ..	16,874	1,16,779	6·92	35	98	2·80	..	..	..	..	..	..	..	655	..	.	..	..	..	..	449	16,180	69,494	4·30
27. Tirukkóyilúr do. ..	20,716	82,299	3·97	722	1,887	2·61	..	..	..	..	..	..	..	1,498	262	1,030	3·93	31	92	2·97	..	3,122	9,400	3·01
28. Ganjám minor rivers system.	37,822	98,176	2·60	86	197	2·29	3,257	..	..	..	..	..	..	15,098	174	607	3·49	13	49	3·77	312	5,958	11,530	1·94
29. Nandyar channel	3,920	11,807	3·01	58	147	2·53	..	..	..	..	..	..	..	43	289	897	3·10	618	2,195	3·55	..	2,306	5,291	2·29

* Relate to certain villages irrigated in the Nizam's Dominions.

APPENDIX VI.

STATEMENT showing the water-rates per acre which were in force under Classes I and II, Works, in Madras Presidency during the year ending 30th June 1898.

Description of crop.	Gódávari and Kistna anikats.		Kurnool-Cuddapah canal.		Srivaikuntam and Marudur anikats.		Rushikulya Project.		Periyár Project.		Other systems.	
	Irrigation by		Irrigation by		Irrigation by		Irrigation by		Irrigation by		Irrigation by	
	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.
1	2	3	4	5	6	7	8	9	10	11	12	13
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1. Single wet crop irrigated	5 0 0	3 12 0	4 0 0	3 0 0	..	..	..	..	..	..	..	..
2. Second wet crop on irrigated lands	5 0 0	3 12 0	3 0 0	2 4 0	..	..	..	..	..	..	..	..
3. If compounded for two crops for a term of not less than five years	8 2 0	6 1 6	6 0 0	4 8 0	..	..	..	..	..	..	..	..
4. Sugarcane, betel, plantains, and other garden produce remaining on the ground for the time of two crops	10 0 0	7 8 0	6 0 0	4 8 0	..	..	..	..	..	..	..	..
5. Sugarcane, betel, plantains and other garden produce, if compounded for a term of not less than five years	8 2 0	..	..	..	..	..	..	..	..	..	..	..
6. Single dry crops	..	..	1 0 0	0 12 0	..	..	..	..	..	..	..	..
7. Second dry crop on irrigated lands	2 8 0	1 14 0	1 0 0	0 12 0	..	..	..	..	..	..	..	..
8. Dry crop whether first or second crop grown on land for which irrigation has never been supplied, or if once supplied, discontinued	2 8 0	1 14 0	1 0 0	0 12 0	..	..	..	..	..	..	..	..
9. Garden crops (Class II of Madras Irrigation Canal Company's rules)	..	..	3 0 0	2 4 0	..	..	..	..	..	..	..	..
10. Mundla (tailed or coarse paddy)	..	..	2 0 0	1 8 0	..	..	..	..	..	..	..	..
11. Single wet crop on—												
(*a*) Wet or mamul irrigated lands in zemin and whole inam villages, the old sources of supply to which have not been interfered with, but for which canal water is taken	..	..	..	..	..	..	2 0 0	1 8 0	..	..	..	..
(*b*) All rain-fed paddy (manavari) lands	..	..	..	..	..	..	1 8 0	1 2 0	..	..	..	..
12. Second wet crops on the above	..	..	..	..	..	..	4 8 0	3 6 0	..	..	..	..
13. Sugarcane, betel, &c., requiring water longer than ordinary wet crops on lands falling under 11	..	..	..	..	..	..	1 8 0	1 2 0	..	..	..	..
14. Dry crops watered, whether first or second crop on lands falling under 11	..	..	..	..	..	..	1 8 0	1 2 0	..	..	..	..
15. Second wet crop or sugarcane, betel, plantains, &c., requiring water longer than ordinary wet crop raised on wet lands in zemin and whole inam villages deprived wholly or partially of their old sources of irrigation, but which are entitled to free irrigation for only one wet crop—G.O., No. 6195, R.D., dated 3rd December 1891	..	..	..	..	..	..	1 8 0	1 2 0	..	..	..	..
16. Dry crop raised as second crop on do.	..	..	..	..	..	..	1 8 0	1 2 0	..	..	..	..
17. Dry crop raised as second crop on single crop wet in Government villages	..	..	..	..	..	..	1 8 0	1 2 0	..	..	..	..
18. Single wet crop raised on dry land	..	..	..	..	4 0 0	3 0 0	3 0 0	2 4 0	5 0 0	3 12 0	4 0 0	3 0 0
19. Second crop on the same land	..	..	..	..	4 0 0	3 0 0	1 8 0	1 2 0	3 0 0	2 4 0	2 0 0	1 8 0
20. Sugarcane, betel, cocoanuts, plantains, &c., on dry land requiring water longer than an ordinary wet crop	..	..	..	..	6 0 0	4 8 0	4 8 0	3 6 0	8 0 0	6 0 0	6 0 0	4 8 0
21. Dry crop watered, whether first or second	..	..	..	..	2 0 0	1 8 0	1 8 0	1 2 0	2 8 0	1 14 0	2 0 0	1 8 0

APPENDIX VII.

Abstract statement showing the demand, collection and balance under the Kurnool-Cuddapah Canal for the official year 1897–98.

Items.	Cuddapah district.	Kurnool district.	Total.
	Rs.	Rs.	Rs.
Uncollected balance on 1st April 1897	30,636	48,016	78,652
Net demand for the fasli year 1307 (1897–98) exclusive of remissions	63,971	*77,816	1,41,787
Total ..	94,607	1,25,832	2,20,439
Collections including collection charges at 5 per cent. during the official year 1897–98	58,526	85,938	1,44,464
Sums written off as irrecoverable during the official year 1897–98	..	..	..
Total ..	58,526	85,938	1,44,464
Uncollected balance on 1st April 1898	36,081	39,894	75,975

*Exclusive of Rs. 276 value of water supplied to the Kurnool Municipality.

APPENDIX VIII.

Statement showing the particulars of cultivation, revenue demand and remission under the Kurnool-Cuddapah canal in the district of Kurnool for fasli 1307.

Form A.—*Vide* Board's Proceedings, dated 8th July 1889, No. 338 (R.S., L.R. and Agri.).

Particulars.		Extent.	Rate.	Demand.	Remissions.			Net demand.
					Failure of crops by excess or deficiency of water.	Other causes.	Total.	
1		2	3	4	5	6	7	8
		Acs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1. Single wet crop irrigated.	Flow.	9,208·48	4 0 0	36,833 15 0	..	104 13 1	104 13 1	36,729 1 11
	Lift.	58·08	3 0 0	174 15 0	..	..	..	174 15 0
2. Second wet crop irrigated.	Flow.	1,638·81	3 0 0	4,917 2 8	1 10 5	56 9 10	58 4 3	4,858 14 5
	Lift.	35·34	2 4 0	79 8 5	..	..	..	79 8 5
	Flow.	146·72	4 0 0	586 14 1	..	9 5 11	9 5 11	577 8 2
	Lift.	..	..	..	..	..	..	..
3. If compounded for two crops for a term not less than five years.	Flow.	1·05	..	6 4 10	..	..	..	6 4 10
	Lift.	..	..	..	..	..	..	..
4. Sugar-cane, betel, plantains and other garden produce.	Flow.	169·69	6 0 0	1,018 2 2	..	..	..	1,018 2 2
	Lift.	2·50	4 8 0	11 4 0	..	..	..	11 4 0
5. Single dry crop ..	Flow.	5,511·94	1 0 0	5,512 0 11	..	..	..	5,512 0 11
	Lift.	31·35	0 12 0	23 8 2	..	..	..	23 8 2
6. Second dry crop ..	Flow.	1,063·17	1 0 0	1,063 2 9	..	..	..	1,063 2 9
	Lift	8·61	0 12 0	6 7 4	..	..	..	6 7 4
7. Dry crops whether first or second crop grown on land for which irrigation has never been supplied or if supplied discontinued.	Flow.	..	..	..	..	..	..	..
	Lift.	..	..	..	..	..	..	..
8. Garden crops class 2 of the Madras Irrigation Canal Company's rules.	Flow.	3,724·60	3 0 0	11,173 12 9	..	9 10 7	9 10 7	11,164 2 2
	Lift.	90·66	2 4 0	203 15 9	..	..	..	203 15 9
9. Mundlavari ..	Flow.	3,393·16	2 0 0	6,786 5 1	..	..	..	6,786 5 1
	Lift.	12·38	..	18 9 1	..	0 13 8	0 13 8	17 11 5
10. Canal A and B class lands ..		155·44	..	426 10 6	..	..	..	426 10 6
11. Lands given on favourable terms under paragraph 2 of G.O., No. 448-I., dated 6th June 1882		330·59	..	858 11 2	..	26 10 5	26 10 5	832 0 9
12. Lands given on favourable terms under paragraph 3 of G.O., No. 448 I, dated 6th June 1882		926·29	..	1,447 15 5	..	9 8 4	9 8 4	1,438 7 1
13. Water supplied to the indigo-vats		..	..	..	..	..	..	..
14. Canal water supplied to tanks		..	..	5,394 1 0	..	..	..	5,394 1 0
15. Penalty		..	..	1,491 15 1	..	..	..	1,491 15 1
16. Water supplied to Kurnool Municipality		..	..	275 14 1	..	..	..	275 14 1
Grand Total ..		26,508·86	..	78,311 3 3	1 10 5	217 7 10	219 2 3	78,092 1 0

APPENDIX VIII—*cont.*

STATEMENT showing the particulars of cultivation, revenue demand and remission under the Kurnool-Cuddapah canal in the district of Cuddapah, fasli 1307.

FORM A.—*Vide* Board's Proceedings, dated 8th July 1889, No. 338 (R.S., L.R. and Agri.).

Description of crops.		Extent.	Water-rate.	Demand.	Remissions.			Net demand.
					Failure of crops by excess or deficiency of water.	Other causes.	Total.	
1		2	3	4	5	6	7	8
		ACS.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1. Single wet crop on irrigated land.	Flow.	7,638·86	4 0 0	30,568 13 0	..	8 13 0	8 13 0	30,560 0 0
	Lift.	1·80	3 0 0	5 7 0	..	..	..	5 7 0
Penal rate, *i.e.*, 1½ times.	Flow.	375·69	6 0 0	2,254 7 0	..	..	..	2,254 7 0
	Lift.	2·47	4 8 0	11 3 0	..	..	..	11 3 0
2. Second crop on irrigated land ..	Flow.	50·0	1 8 0	75 0 0	..	..	..	* 75 0 0
3. Composition for two crops for a term of not less than five years.	Flow.	..	..	..	..	..	..	..
	Lift	..	..	..	..	..	..	..
4. Sugar-cane, betel garden and other garden produce remaining on the ground for the time of two crops.	Flow.	129·70	6 0 0	778 8 0	..	..	..	778 8 0
	Lift.	0·97	4 8 0	4 6 0	..	..	..	4 6 0
Penal rate, *i.e.*, 1½ times ..		7·23	9 0 0	65 3 0	..	..	..	65 3 0
5 Single dry crops ..	Flow.	3,396·94	1 0 0	3,403 6 0	..	..	..	3,403 6 0
	Lift.	46·03	0 12 0	34 10 0	..	..	..	34 10 0
Penal rate, *i.e.*, 1½ times.	Flow.	597·93	1 8 0	900 0 0	..	..	..	900 0 0
	Lift.	32·57	1 2 0	36 12 0	..	..	..	36 12 0
Mundlapaddy ..	Flow.	48·79	2 0 0	97 12 0	..	..	..	97 12 0
6. Second dry crop if not compounded		..	..	..	..	..	..	..
7. Dry crops on lands for which irrigation has never been supplied, or if supplied discontinued		..	..	..	..	..	..	..
8. Garden crops (garden ragi, onions, chillies, sweet potatoes, tobacco, maize, garden korra, indigo, vegetables, wheat, cummin-seeds, bariga and menthulu) class 2 of Irrigation and Canal Company's Rules.	Flow.	6,349·33	3 0 0	19,053 14 0	..	..	..	19,053 14 0
	Lift.	246·41	2 4 0	554 15 0	..	..	..	554 15 0
Penal rates	Flow.	363·33	4 8 0	1,636 1 0	..	..	..	1,636 1 0
	Lift.	28·78	3 6 0	96 10 0	..	..	..	96 10 0
Indigo spoiled and charged at Re. 1.	Flow.	70·54	1 0 0	70 6 0	..	..	..	70 6 0
Indigo spoiled and charged at penal rate.	Flow.	3·48	1 8 0	5 4 0	..	..	..	5 4 0
9. Cowle and block rate lands.	Flow.	636·26	4 0 0	2,544 15 0	..	682 8 0	682 8 0	1,862 7 0
	,,	376·83	3 0 0	1,133 2 0	..	335 11 0	335 11 0	797 7 0
	,,	225·91	1 0 0	225 14 0	..	78 6 0	78 6 0	147 8 0
	Lift.	19·04	2 4 0	42 14 0	..	15 3 0	15 3 0	27 11 0
	,,	1·02	0 12 0	0 12 0	..	0 3 0	0 3 0	0 9 0
Penal rate	Flow.	5·11	6 0 0	30 11 0	..	1 1 0	1 1 0	29 10 0
	,,	0·64	4 8 0	2 14 0	..	0 12 0	0 12 0	2 2 0
10. Value of water supplied to Government tanks		..	..	1,460 7 9	..	..	..	1,460 7 9
Total ..		20,655·66	..	65,094 2 9	..	1,122 9 0	1,122 9 0	63,971 9 9

* This is the charge on the second crop cultivation at a compounded rate of Rs. 1-8-0 to be paid in all years in the village of Krishnapuram as per Board's Proceedings, No. 20, dated 11th January 1894.

No. 64 I.

Note by the Chief Engineer for Irrigation.

The statements showing the irrigation revenue derived from all irrigation works during the fasli year 1307 (1897–98) forwarded by the Board of Revenue (Revenue Settlement, Land Records and Agriculture), and the Board's review thereon which was received in this office on the 24th ultimo, are submitted to Government.

2. In the accompanying statement prepared in this office the areas irrigated under, the revenue derived from, and the working expenses incurred on, all irrigation works in the Presidency are compared with those of the previous year. The total area irrigated was 6·38 millions of acres, the irrigation revenue was Rs. 210·68 lakhs, and the working expenses amounted to Rs. 36·63 lakhs, against 6·08 millions of acres, Rs. 195·64 and Rs. 42·38 lakhs, respectively, in the previous year. Compared with the previous year there was a satisfactory increase in the area irrigated under, and the revenue derived from, all classes of works. The decrease in working expenses is due to the fact that in the previous year extensive repairs were carried out in restoring works damaged by floods.

CLASS I. MAJOR (PRODUCTIVE) WORKS SYSTEM.

3. *Gódávari Delta System.*—In all the three sections of the delta the area irrigated both under first and second crops was more than in the previous year by 59,586 acres, though under first crop there was a decrease under the Mandapet, Coringa and Kovur-Manjair junction canals in the Eastern section, the Main and Bank canals in the Central section, and the Main, Attili, and Junction canals in the Western section. Under second crop there was also a decrease under the Bank canal in the Eastern section, the Main and Bandamurlanka canals in the Central section, and the Bank, Attili, Undi and junction canals in the Western section. The increase of Rs. 3,58,159 in the revenue derived during the year was due to the extension of irrigation, to the larger area of second crop raised, and to the fact that smaller remissions aggregating Rs. 1,00,358 were granted during the year against Rs. 2,65,120 in the previous year.

4. *Kistna Delta System.*—Except under the Ryves', Polrazcodu and Bantumilli canals in the Eastern section, the areas irrigated under all the canals of this system under first crop were better than in the previous year. The increase of 37,740 acres in the area irrigated under the system and of Rs. 2,97,834 in the revenue derived therefrom occurred chiefly under "dry converted into wet and dry crops watered," "waste brought under irrigation and zemindari." The remissions granted during the year amounted to Rs. 13,494 against Rs. 1,42,745 in the preceding year.

5. *Penner Anicut System.*—Under this system there was an increase in the area irrigated of 2,311 acres, and in the revenue derived of Rs. 9,632, during the year, due to early freshes in the river which resulted in extensive sowings.

6. *Sangam Anicut System.*—Compared with the previous year there was a decrease in the area irrigated of 3,509 acres, and in the revenue derived of Rs. 9,991. The decrease occurred chiefly under "second crop" and was the result of the unfavourable character of the north-east monsoon.

7. *Kurnool-Cuddapah canal.*—The area irrigated under this canal during the year was 47,164 acres against 87,226 acres in the preceding year, and the net demand was Rs. 32,954 less than in the previous year. The decrease was due to canal water not having been used for dry crops so extensively as in the previous year owing to the favourable character of the season. The unrealized demand at the beginning of the year was Rs. 78,652; at the close of the year Rs. 75,975 remained uncollected.

8. *Barur Tank System.*—The areas irrigated both under first and second crops amounted to 4,421 acres against 4,440 acres in the previous year. There was an increase of Rs. 89 in the revenue derived.

9. *Cauvery Delta System.*—The areas irrigated under first and second crops were 4,384 and 8,301 acres, respectively, more than in the preceding year. There was an improvement in the revenue derived of Rs. 51,090.

10. *Srivaikuntam Anicut System.*—Compared with the previous year there was an increase during the year in the area irrigated of 1,521 acres, and in the revenue derived of Rs. 5,624.

11. *Periyar Project.*—The areas irrigated under first and second crops were 69,394 and 19,749 acres, or 18,071 and 7,321 acres, respectively, more than in the previous year when the project was brought into operation. This result exceeds the forecast of 1894, but the revenue credited to the project, Rs. 1,12,191, is less than that entered in the forecast, viz., Rs. 1,44,237. The Board of Revenue believes that this decrease is due to the revenue reported as due to the project having been incorrectly worked out and has issued instructions for the preparation of correct accounts both for the year under review and for the preceding year, and considers it to be useless to review in detail the results attained under the project until correct figures have been made avaiable.

Major (Protective) Work.

12. *Rushikulya Project.*—The area irrigated under this project was extended from 63,327 acres in 1896–97 to 67,318 acres in 1897–98, the increase in revenue resulting from the extension being Rs. 5,546.

Class II. Works—Minor Works Systems for which Capital and Revenue Accounts are kept.

13. There was an increase of 12,389 acres in the total area irrigated under these systems, and of Rs. 42,286 in the revenue derived therefrom. The increase occurred under all the systems except the Chembrambakkam tank, Thadapalli channel, Cheyaru, Shatiatope and Vriddháchalam anicut systems. The bulk of the decrease in revenue, viz., Rs. 18,988, occurred under the Cheyaru anicut system in which remissions amounting to Rs. 11,792 were granted during the year against Rs. 211 in the previous year. The cause of this large remission has not been explained by the Board of Revenue. The Munnyeru, Dondapad and Sagileru projects were brought into operation during the year, but no revenue was credited to the projects for the areas irrigated under them. The Board of Revenue states that no revenue accounts were called for from Collectors for these projects owing to their completion not having been reported to it. In G.O., No. 191 I., dated 23rd February 1899, necessary corrections in the Revenue accounts have been ordered to be made in due course.

Class III. Minor Works Systems for which a continuous record of expenditure is kept.

14. Under this class there was an increase of 12,959 acres in the total area irrigated, and of Rs. 50,392 in the total revenue derived. The bulk of the increase in revenue, viz., Rs. 48,252, occurred in the Vizagapatam district where a remission of only Rs. 811 was granted during the year against Rs. 45,687 in the previous year.

Class IV. Minor Works—Public Works and Revenue Departments.

15. Under this class there was an increase of 165,664 acres in the area irrigated, and of Rs. 6,31,845 in the revenue derived.

The increase occurred in all the districts except Nellore, Chingleput, South Arcot, Tanjore, Madura and Tinnevelly. The decreases in these districts are detailed below :—

	ACS.	REVENUE. RS.
Nellore	36,344	1,70,197
Chingleput	83,821	2,33,665
South Arcot	6,460	47,349
Madura	9,234	23,355
Tinnevelly	12,845	50,906

The cause of the decreases has not been explained by the Board of Revenue. The remissions granted during the year aggregated Rs. 9,06,192, or Rs. 4,21,388 less than in the previous year.

16th March 1899.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

Statement comparing the Area irrigated under, the Revenue derived from, and the Working expenses incurred on, Irrigation Works during 1897-98 with those of the previous year.

	Area charged as irrigated (first and second crop).		Irrigation revenue.		Gross Working expenses, 1897-98.						Gross Working expenses, 1896-97.
					Establishment.	Tools and plant.	Indirect charges.	Maintenance and repairs.	Extensions and improvements.	Total.	
	Fasli 1307 (1897-98).	Fasli 1306 (1896-97).	Fasli 1307 (1897-98).	Fasli 1306 (1896-97).							
	Acs.	Acs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Class I. Major Works.											
Productive.											
Godávari delta system	799,435	739,849	30,37,567	26,79,408	2,37,877	46,221	33,310	2,00,597	12,557	5,30,562	5,60,911
Kistna ,,	520,373	482,633	23,67,209	20,59,375	2,16,602	58,047	30,368	3,03,649	11,266	6,19,931	7,41,027
Penner anicut system	70,464	68,153	2,60,297	2,60,666	20,981	..	2,811	18,463	804	42,159	47,216
Sangam ,,	76,277	79,736	3,01,814	3,11,805	24,769	93	7,055	25,033	4,123	61,073	67,543
Kurnool-Cuddapah canal	47,164	87,226	1,41,787	1,74,741	31,401	1,066	4,396	71,955	7,718	1,16,536	89,637
Barur tank project	4,421	4,440	11,622	11,533	1,164	..	176	1,369	662	3,371	3,835
Cauvery delta system	989,868	977,123	42,28,783	41,77,693	2,70,710	4,104	37,900	67,660	14,463	3,86,629	4,18,134
Srivaikuntam anicut system	41,668	40,147	1,89,738	1,84,114	16,388	..	2,295	21,069	1,418	41,170	83,209
Periyár project	89,143	63,751	3,61,756	2,66,480	27,841	630	3,898	66,998	2,686	1,01,903	58,227
Protective.											
Rushikulya project	67,318	63,327	1,13,652	1,08,106	6,138	373	859	26,348	..	33,718	40,772
Total	2,706,071	2,606,435	1,10,04,225	1,02,23,920	8,52,971	1,02,226	1,23,068	8,08,141	55,646	19,37,052	21,10,511
Class II. Minor Works.											
Works for which Capital and Revenue Accounts are kept.											
Ganjám minor rivers system	62,541	64,001	1,23,984	1,18,026	4,740	..	664	20,511	..	25,915	11,491
Dondapad tank project	..	..	..	..	123	..	17	533	..	673	..
Cumbum tank system	8,192	8,119	36,176	33,192	28	..	4	528	36	524	1,015
Thadapalli channel system	14,777	14,931	1,02,956	1,04,171	1,138	..	159	4,530	394	6,221	9,070
Arkenkota ,,	4,134	4,126	27,902	27,409	923	..	129	3,000	999	5,051	2,587
Kalingarayen ,,	21,516	21,516	1,06,376	1,05,003	1,239	..	173	4,988	124	6,524	6,784
Pálár anicut system	97,820	93,727	2,54,022	2,37,904	7,667	..	1,073	24,349	8,210	41,299	61,293
Poiney ,,	25,207	23,708	87,336	74,105	1,636	..	215	4,000	2,498	8,249	11,679
Cheyaru ,,	32,505	37,002	72,001	90,989	2,614	..	366	9,238	2,000	14,218	28,067
Chembrambakam tank system	16,691	15,237	43,620	45,875	968	..	134	4,135	..	5,227	4,748
Madras Water-supply and Irrigation Extension	10,387	9,743	22,235	20,798	2,367	..	331	4,306	200	7,003	7,748
Vellur anicut system	5,306	5,243	8,386	8,283	154	..	22	470	3,024	846	10,009
Tirukkóyilúr anicut system	26,022	25,251	93,776	91,617	2,586	..	362	8,083	116	14,055	741
Mchamattur ,,	4,020	3,549	16,365	15,141	398	..	56	1,604	161	2,174	9,093
Vriddhachalam ,,	6,522	6,382	24,188	24,416	566	..	79	2,202	859	3,008	3,479
Shatiatope ,,	33,712	33,196	1,11,618	1,11,741	2,390	..	335	9,374	2,886	12,968	5,198
Pelandorai ,,	10,212	9,301	35,474	34,202	2,304	..	319	7,937	2,900	13,446	16,718
Lower Coleroon ,,	112,938	108,886	3,97,308	3,83,064	4,531	2	634	17,209	..	26,272	17,702
Nandyar channel	7,176	5,508	20,104	15,661	637	38	59	3,404	142	4,168	31,115
Maradur anicut system	34,135	33,203	1,86,978	1,86,112	1,968	..	275	8,909	..	11,294	2,201
Total	535,813	523,424	17,69,795	17,27,509	38,867	36	5,436	1,39,309	24,477	2,08,125	2,54,446

Area, Irrigation revenue, and Working expenses, &c.—*cont.*

	Area charged as irrigated (first and second crop).		Irrigation revenue.		Gross Working expenses, 1897-98.						Gross Working expenses, 1896-97.
	Fasli 1307 (1897-98).	Fasli 1306 (1896-97).	Fasli 1307 (1897-98).	Fasli 1306 (1896-97).	Extensions and improvements.	Maintenance and repairs.	Establishment.	Tools and plant.	Indirect charges.	Total.	
CLASS III. MINOR WORKS.											
Works for which a Continuous record of expenditure is kept.	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Vizagaptam.											
Sarada river	21,512	13,901	32,327	2,397	67	1,164	1,373	90	192	7,625	401
Varaha river	13,045	8,553	23,928	5,606	306	4,433					
Salem.											
Pennagundapuram tank	860	681	1,456	235	..	132	276	18	39	1,535	1,594
Marandahully project	..	..	..	..	956	114					
Coimbatore.											
Amaravati, twenty-two channels	47,566	47,251	1,48,123	1,46,353	..	3,097	712	46	100	3,955	4,099
Chingleput.											
Madurantakam tank	6,318	6,731	11,597	14,306	826	4,657	1,261	82	176	7,002	5,564
South Arcot.											
Myorenady, Kattumailur anicut	570	534	2,372	2,239	..	..					
Gadilam river { 1. Tiruvadi anicut	9,369		36,541		..	1,369					
{ 2. Vanamadevi anicut	1,031	12,828	4,975	51,267	..	513	721	47	101	4,002	8,955
{ 3. Tiruvendipuram anicut ..	2,708		10,934		362	496					
Kullar river, Vikravandi anicut	2,437	2,412	8,209	8,144	10	383					
Tinnevelly.											
Tambraparni river, six anicuts	71,555	71,121	4,21,988	4,21,511	416	2,135	587	38	82	3,258	35,150
Total ..	176,971	164,012	7,02,450	6,52,058	2,943	18,493	4,930	321	690	27,377	55,763
CLASS IV. (*a*) MINOR WORKS, PUBLIC WORKS DEPARTMENT.											
Ganjám	57,924	36,595	80,825	1,229	3,964	9,745	2,868	187	402	17,166	14,831
Vizagapatam	62,625	47,195	1,06,705	60,803	3,346	12,189	4,251	277	595	20,658	64,530
Gódávari	50,181	32,940	99,659	39,773	14,335	37,893	13,377	901	1,873	68,379	57,211
Kistna	13,183	8,262	34,354	11,839	20,756	36,417	11,742	764	1,644	71,323	1,27,328
Nellore	72,302	98,797	2,17,157	3,39,799	17,167	25,506	10,133	665	1,419	54,890	1,12,383
Cuddapah	82,475	70,355	2,67,060	1,96,618	3,386	22,721	45,709	2,981	6,399	81,196	35,943
Kurnool	26,254	17,710	78,471	35,393	1,641	18,125	13,591	886	1,903	36,146	17,679
Anantapur	72,453	31,098	2,22,198	62,737	36,749	44,301	53,758	3,503	7,526	1,45,837	1,04,645
Bellary	40,406	31,664	1,99,392	1,55,383							
West Coast	..	..	..	..	..	3,072	707	46	99	3,924	2,356
Salem	61,804	58,218	1,47,934	1,36,200	588	39,177	9,289	595	1,300	50,949	72,088
Coimbatore	49,314	48,206	1,79,087	1,74,479	23,387	10,429	7,737	504	1,083	43,140	41,255
North Arcot	78,377	81,292	2,10,214	2,17,698	9,751	41,013	11,566	747	1,619	64,696	81,660
Chingleput	2,17,579	272,063	4,35,096	5,88,698	17,504	80,087	22,394	1,456	3,135	1,24,576	1,79,300
South Arcot	90,218	92,118	2,92,427	3,05,951	12,366	60,137	16,115	1,048	2,256	91,922	99,227
Tanjore	19,727	19,625	45,412	46,362	39	19,607	4,448	290	623	25,007	— 1,57,749
Trichinopoly	1,08,545	106,841	4,33,106	4,29,785	15,130	12,731	6,336	410	887	35,494	2,80,151
Madura	70,568	68,502	2,19,670	2,16,649	13,471	32,354	10,086	657	1,412	57,980	1,08,869
Tinnevelly	88,201	88,276	3,60,012	3,57,820	11,451	69,503	17,328	1,125	2,426	1,01,833	1,39,980
Total ..	1,262,136	1,209,757	36,28,779	33,77,216	2,05,031	5,75,007	2,61,435	17,042	36,601	10,95,116	13,81,687
(*b*) MINOR WORKS, REVENUE DEPARTMENT.											
Ganjám	61,479	40,832	71,095	9,722	..	20,000	..	..	..	20,000	18,517
Vizagapatam	95,906	60,993	1,48,086	54,356	2,919	21,759	606	39	85	25,408	16,760
Gódávari	57,679	30,827	88,765	8,632	1,602	17,202	438	29	61	19,332	27,694
Kistna	28,718	24,814	89,483	64,848	..	14,852	..	..	..	14,852	16,351
Nellore	30,161	40,010	63,838	1,11,393	1,879	21,817	579	37	81	24,393	20,431
Cuddapah	182 445	154,975	4,55,631	3,22,496	..	27,468	— 7	..	— 1	27,460	32,791
Kurnool	34,548	24,565	94,435	47,033	..	11,027	681	44	95	11,847	11,231
Anantapur	109,175	71,996	2,62,602	1,44,925	..	18,760	..	..	..	18,760	27,826
Bellary	32,788	23,990	80,127	48,275	..	7,942	..	..	..	7,942	6,865
West Coast	..	..	..	..	..	30	..	..	..	30	180
Salem	154,192	147,010	2,75,228	2,53,677	..	21,030	730	48	102	21,910	19,669
Coimbatore	18,645	18,057	47,658	46,877	..	4,500	219	14	31	4,764	3,634
North Arcot	219,089	222,632	5,58,358	5,50,137	1,061	36,896	329	21	46	38,353	57,885
Chingleput	103,823	133,160	1,70,627	2,50,690	..	23,769	..	..	..	23,769	26,268
Presidency	..	..	..	..	..	1,079	..	..	..	1,079	660
South Arcot	234,181	238,741	6,94,417	7,28,242	3,181	51,082	958	62	134	55,417	65,262
Tanjore	38,673	38,708	79,466	80,634	..	6,572	99	6	14	6,691	6,493
Negapatam	..	..	..	..	..	..	..	..	..	..	114
Trichinopoly	64,757	57,594	1,17,798	1,15,921	4,557	14,686	1,062	69	149	20,523	21,369
Madura	96,129	107,429	2,47,268	2,73,644	200	19,920	234	15	33	20,402	18,143
Tinnevelly	129,514	142,284	4,18,264	4,71,362	1,859	30,414	445	29	62	32,809	37,830
Total ..	1,691,902	1,578,617	39,63,146	35,82,864	17,258	3,70,805	6,373	413	892	3,95,741	4,35,973
Total, Class IV Works ..	2,954,038	2,788,374	75,91,925	69,60,080	2,22,289	9,45,812	2,67,808	17,455	37,493	14,90,857	18,17,660
Grand Total ..	6,372,893	6,082,245	2,10,68,395	1,95,63,567	3,05,355	19,06,755	11,64,576	1,20,038	1,66,687	36,63,411	42,38,380

ORDER—No. 339 I., dated 13th April 1899.

Communicated to the officers concerned for information.

(True Extract.)

for Secretary

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ the Chief Engineer for Irrigation, Tank Restoration Scheme.
„ Superintending Engineers.
„ the Superintending Engineer on Special duty,
Cauvery Completion Estimates.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.

Exd. T. K. Narayana Aiyangar.

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STATEMENT WITH DITTO.								
PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.								

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