Public Works (189 ) Department.

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G.O., No. 929 & 930 9

DATED 26 Oct 98

23/11/99

[Despatch Abstract.]

Statistical statements III E and IV E.

Ordered that the advance copies of the — received from the Bd of Rev. be forwarded to the Govt of India.

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Statistical Statements III E & IV E.

Forwarding the advance copies of the — received from the Bd of Revenue

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IRRIGATION.

# Government {1899} of Madras.

## PUBLIC WORKS.

*Recd.* } 1899. *Enclosures*

*Regd.* *Spare copies*

**G.O., Nos. 929, 930 I., 26th October 1899.**

**OCTOBER.**

**Statistical Statements III-E and IV-E**

Forwarding the advance copies of the — received from the Board of Revenue.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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**Irrigation.**

Read—the following papers :—

Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), No. 300, dated 27th September 1899.

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*Read*—again Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 4800, dated 22nd September 1899.

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*Read*—also the following papers :—

| | | | | | | |
|---|---|---|---|---|---|---|
| From the Collector | of | Anantapur, | dated | 24th | July | 1899, D. Dis. No. 1952. |
| ,, ,, | of | Arcot, North | ,, | 16th | ,, | ,, No. 1335-Ver. |
| ,, ,, | of | Arcot, South | ,, | 25th | Aug. | ,, ,, No. 1146-Ver. |
| ,, ,, | of | Bellary | ,, | 14th | July | ,, ,, No. 2190. |
| ,, ,, | of | Chingleput | ,, | 19th | ,, | ,, R. C. No. 239-Pl. |
| ,, ,, | of | Coimbatore | ,, | 12th | ,, | ,, D. Dis. No. 1999-Rev. |
| ,, ,, | of | Ganjám | ,, | 20th | ,, | ,, ,, No. 1870-Ver. |
| ,, ,, | of | Gódávari | ,, | 29th | ,, | ,, ,, No. 2833-Rev. |
| ,, ,, | of | Kistna | ,, | 31st | Aug. | ,, ,, No. 2736-Genl. |
| ,, ,, | of | ,, | ,, | 23rd | Sept. | ,, (Telegram). |
| ,, ,, | of | Kurnool | ,, | 4th | Aug. | ,, Dis. No. 1783-Gl. |
| ,, ,, | of | Madura | ,, | 6th | Sept. | ,, Rev. No. 657-Bd. & Govt. |
| ,, ,, | of | Nellore | ,, | 16th | July | ,, D. No. 1960-Ver. |
| ,, ,, | of | ,, | ,, | 18th | ,, | ,, D. No. 1996-Ver. |
| ,, ,, | of | Salem | ,, | 20th | ,, | ,, Dis. No. 1926. |
| ,, ,, | of | Tanjore | ,, | 17th | ,, | ,, D. Dis. No. 2438-Rev. |
| ,, ,, | of | Tinnevelly | ,, | 22nd | ,, | ,, R. Dis. No. 615-Genl. Rev. |
| ,, ,, | of | Trichinopoly | ,, | 17th | ,, | ,, Ref. on R.P. No. 413. |
| ,, ,, | of | Vizagapatam | ,, | 25th | ,, | ,, D. Dis. No. 229. |

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*Resolution*—No. 300, dated 27th September 1899.

The Board forwards herewith statistical statements Nos. III-E and IV-E for the year 1898–99. Figures for columns 2 to 4 of the latter statement have been adopted from the statistical returns for 1897–98, as the returns for 1898–99 will not be available till after the 1st October, the date for the submission of these returns by Collectors having been extended to that date—*vide* paragraph 7 of B.P., No. 106, dated 14th April 1899.

2. Except in parts of the Deccan Districts, the season on the whole was generally favourable for agriculture. The average rainfall for the whole Presidency, excluding Madras, where the land is charged with fixed quit-rents, and the two West Coast districts and the Nilgiris, where there are no irrigation works, was 39·70 inches against 33·00 inches in 1897–98 and 35·50 inches, the average for the five years ending

1897–98. The usual early rains were fairly abundant in those parts of the Presidency most dependent thereon; but there was considerable delay in the setting in of the south-west monsoon rains in parts of the Deccan Districts. In the Circars, the south-west monsoon rains were good and copious; but up to nearly the end of August, the rainfall was very scanty over the greater part of the Deccan, Carnatic, Central and Southern districts. The rainfall of September was, however, remarkably heavy; and the total fall during this monsoon was normal, or in slight excess over the whole area. This copious rainfall, though late, improved the agricultural outlook greatly and was followed by a heavier rainfall than usual over the greater part of the Presidency during the north-east monsoon. In the Circars, the rainfall at this season was almost normal, and elsewhere except in the Deccan Districts was in considerable excess. During October, the rainfall was good and even heavy except in the Deccan and parts of the Central districts; but in November, the fall was good or heavy throughout the districts of the East Coast and consequently there were floods in some parts, though no great damage was caused thereby. The partial failure of these later monsoon rains in parts of Vizagapatam and of the Deccan caused some loss of crop. During the remainder of the year, the rainfall was rather less than usual throughout.

3. The Gódávari began to rise on the 15th June and reached a maximum height of 9·6 feet above the new crest of the anikat on the 25th July 1898. The Kistna was in fresh at the end of the first week of June and rose to 13·3 feet above the crest of the anikat on the 28th July 1898. This was the highest recorded point during the year against 14·25 feet on the 12th August 1897. The supplies in the Pennér were early and copious. There were moderate freshets in the Cauvery from May to July; but in August, the river was unusually low and continued in that condition till October when it rose, and there was an ample supply to mature the crops.

4. A statement showing the rainfall in each district during each half of the year under report compared with the fall during the previous year and with the average for the five years ending 1897–98—Appendix I—is appended.

5. The following abstract shows the areas actually irrigated from Government sources in 1898–99 as compared with the figures for 1897–98—particulars are given in Appendix II:—

| Area irrigated under | * 1897–98. | 1898–99. | Difference. |
|---|---|---|---|
| | ACS. | ACS. | ACS. |
| Anikat and other important works, classes I and II .. .. .. | 3,108,793 | 3,207,538 | + 98,745 |
| Other works, classes III and IV .. .. .. .. .. .. | 2,913,981 | 3,014,498 | + 100,517 |
| Total .. | 6,022,774 | 6,222,036 | + 199,262 |

* Revised figures.

6. In some districts, the area shown as actually irrigated (column 12) is greater than that shown in column 8 (area at present estimated as annually irrigable) and that shown in the latter column is greater than the figure entered in column 7 (culturable area commanded by irrigation works). The Chief Engineer will be requested to issue such instructions as will ensure that correct figures for insertion in columns 7 and 8 are forthcoming in future.

7. As compared with the previous year, there was an increase of 98,745 and 100,517 acres under works of classes I and II and other works (classes III and IV), respectively, resulting in a total increase of 199,262 acres. The increase under works of classes I and II occurred under all the systems, except the Gódávari anikat, the Madras water-supply and irrigation extension project, and the Pelandorai, Tirukkóyilúr, Srívaikuntam and Marudur anikats. The large decrease (23,592 acres) under the Gódávari system occurred chiefly under second crop cultivation and was due to there having been an exceptionally large area of second crop cultivation in the previous year. The decreases under the other systems were small and call for no remarks. Irrigation under the Sagileru, Muniyéru and Dondapad projects was charged for the first time during the year under review.



Under works of classes III and IV, the increase occurred in all the districts except Ganjám, Vizagapatam, Kistna, Kurnool, Bellary and Anantapur. The Collector of Cuddapah has been asked to explain the large increase shown in his district. The decrease in Ganjám was due to the extension of irrigation under the Rushikulya project and to the consequent transfer of land irrigated by class IV works to class I works. The decrease in Kistna was only nominal and was due to the fact that the figures for 1897–98 include the irrigation under the Muniyéru and Dondapad projects which are shown separately for the year under report. The decrease in the remaining four districts was due to the unfavourable character of the season therein.

8. Statement No. III-E does not include statistics relating to the Periyár project, the accounts of which are still incomplete. The net area, according to statement No. IV-E in respect of works of classes I and II, after excluding the area 100,223 acres shown as irrigated by that project, is 3,107,315 acres, which is less than the area (3,126,319 acres) shown in statement No. III-E by 19,004 acres. This difference is due, as stated in B.P., No. 428, Revenue Settlement, dated 24th November 1898, partly to the fact that statement No. IV-E relates to the official, while statement No. III-E relates to the agricultural year and partly to the circumstance that the former statement shows the areas actually irrigated, while the latter excludes the extent on which crops withered.

(True Extract.)

(Signed) C. BENSON
Deputy Director
*for* Secretary.

(True Copy.)

(Signed) P. GOVINDA MENON,
First Assistant.

## APPENDIX I.

Comparative statement of rainfall in each district.

| Districts. | Average of five years ending 1897–98. | | 1897–98. | | 1898–99. | |
|---|---|---|---|---|---|---|
| | April to September. | October to March. | April to September. | October to March. | April to September. | October to March. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | INCHES. | INCHES. | INCHES. | INCHES. | INCHES. | INCHES. |
| Ganjám .. .. .. .. .. | 38·55 | 10·60 | 37·58 | 16·63 | 34·40 | 10·62 |
| Vizagapatam .. .. .. .. | 40·28 | 9·89 | 38·84 | 12·52 | 32·03 | 8·99 |
| Gódávari .. .. .. .. | 29·70 | 13·52 | 33·38 | 13·15 | 28·56 | 14·18 |
| Kistna .. .. .. .. .. | 24·77 | 9·05 | 26·38 | 5·59 | 20·73 | 10 42 |
| Kurnool .. .. .. .. .. | 18·62 | 6·09 | 22·23 | 2·85 | 21·65 | 3·76 |
| Bellary .. .. .. .. .. | 18·59 | 5·59 | 26·85 | 2·81 | 18·53 | 4·50 |
| Anantapur .. .. .. .. | 16 39 | 5·99 | 22·60 | 3·08 | 13·89 | 4·74 |
| Cuddapah .. .. .. .. | 17·35 | 9·35 | 19·62 | 4·03 | 14·44 | 11·01 |
| Nellore .. .. .. .. .. | 14·44 | 19·08 | 18·37 | 6·14 | 12·13 | 25·83 |
| Chingleput .. .. .. .. | 18·79 | 26·43 | 22·29 | 9·68 | 18·86 | 46·62 |
| South Arcot .. .. .. .. | 20·51 | 24·64 | 24·48 | 11·16 | 23·18 | 45·45 |
| North Arcot .. .. .. .. | 20·07 | 15·19 | 25·02 | 6·44 | 21·36 | 25·56 |
| Salem .. .. .. .. .. | 23·20 | 11·95 | 28·52 | 7·77 | 19·97 | 20·14 |
| Coimbatore .. .. .. .. | 15·00 | 12·56 | 19·14 | 8·29 | 16·30 | 16·00 |
| Trichinopoly .. .. .. .. | 19·31 | 17·48 | 26·83 | 8·47 | 16 29 | 26·24 |
| Tanjore .. .. .. .. .. | 15·84 | 28·71 | 18·07 | 12·09 | 15·98 | 42·27 |
| Madura .. .. .. .. .. | 13·56 | 20·20 | 16·75 | 10·03 | 14·23 | 25·62 |
| Tinnevelly .. .. .. .. | 7·42 | 19·93 | 11·80 | 14·65 | 6·32 | 23·78 |
| Average .. | 20·70 | 14·80 | 24·38 | 8·63 | 19·38 | 20·32 |

## APPENDIX II.

### IV-E.—COMPARATIVE statement of irrigation and rainfall for the official year 1898–99 in the Madras Presidency.

| 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. | Area irrigated in acres. | | | | | | Rainfall in inches. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 1897–98. | | | 1898–99 | | | 1897–98. | 1898–99. |
| | Total area in acres. | Culturable area in acres. | Cultivated area in acres. | No. | Name. | | | First crop. | Second crop. | Total. | First crop. | Second crop. | Total. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | | | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | INCHES. | INCHES. |
| Ganjám .. | 5,356,160 | 590,859 | 537,472 | 1 | Rushikulya project .. .. | 143,410 | 121,410 | 63,123 | 1,285 | 64,408 | 74,046 | 2,738 | 76,784 | 54·21 | 45·02 |
| | | | | 2 | Ganjám minor rivers system .. | 60,000 | 58,000 | 51,399 | 7,498 | 58,897 | 59,745 | 5,345 | 65,090 | | |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 44,564 | 44,564 | 42,881 | 1,480 | 44,361 | 37,456 | 1,739 | 39,195 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 81,972 | 81,972 | 72,506 | 4,668 | 77,174 | 68,731 | 4,042 | 72,773 | | |
| | | | | | Total .. | 329,946 | 305,946 | 229,909 | 14,931 | 244,840 | 239,978 | 13,864 | 253,842 | 54·21 | 45·02 |
| Vizagapatam. | 11,035,181 | 353,237 | 339,790 | 1 (*a*) | Petty works in charge of Public Works Department .. .. | 55,413 | 54,600 | 47,298 | 25,198 | 72,496 | 45,695 | 18,457 | 64,152 | 51·36 | 41·02 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 53,312 | 52,143 | 50,215 | 10,414 | 60,629 | 37,943 | 14,186 | 52,129 | | |
| | | | | | Total .. | 108,725 | 106,743 | 97,513 | 35,612 | 133,125 | 83,638 | 32,643 | 116,281 | 51·36 | 41·02 |
| Gódávari .. | 5,028,480 | 1,700,070 | 1,316,521 | 1 | Gódávari anikat .. .. .. | 773,899 | 669,330 | 622,830 | 170,561 | 793,391 | 649,899 | 119,968 | 769,867 | 46·53 | 42·74 |
| | | | | 2 | Kistna anikat .. .. .. | 39,276 | 39,276 | 22,960 | 22 | 22,982 | 26,442 | .. | 26,442 | | |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 49,415 | 44,562 | 38,990 | 4,981 | 43,971 | 45,202 | 1,903 | 47,105 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 50,895 | 47,451 | 33,313 | 4,184 | 37,497 | 42,552 | 1,874 | 44,426 | | |
| | | | | | Total .. | 913,485 | 800,619 | 718,093 | 179,748 | 897,841 | 764,095 | 123,745 | 887,840 | 46·53 | 42·74 |
| Kistna .. | 5,438,720 | 3,070,992 | 2,423,916 | 1 | Kistna anikat .. .. .. | 820,000 | 475,000 | 484,072 | 335 | 484,407 | 508,434 | 101 | 508,535 | 31·97 | 31·15 |
| | | | | 2 | Gódávari anikat .. .. .. | 12,500 | 5,670 | 6,898 | .. | 6,898 | 6,830 | .. | 6,830 | | |
| | | | | 3 | Muniyeru project .. .. | 12,000 | .. | .. | .. | .. | 1,931 | 80 | 2,011 | | |
| | | | | 4 | Dondapad do. .. .. | 1,868 | 1,868 | .. | .. | .. | 113 | .. | 113 | | |
| | | | | 5 (*a*) | Petty works in charge of Public Works Department .. .. | 100,391 | 16,870 | 20,887 | 998 | 21,885 | 19,163 | 215 | 19,378 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 25,812 | 23,823 | 20,600 | 504 | 21,104 | 20,933 | 642 | 21,575 | | |
| | | | | | Total .. | 972,571 | 523,231 | 532,457 | 1,837 | 534,294 | 557,404 | 1,038 | 558,442 | 31·97 | 31·15 |
| Kurnool .. | 4,972,160 | 2,507,986 | 1,876,344 | 1 | Kurnool-Cuddapah canal .. | 223,149 | 30,000 | 21,984 | 3,410 | 25,394 | 21,930 | 2,572 | 24,502 | 25·08 | 25·41 |
| | | | | 2 | Cumbum tank .. .. .. | 6,111 | 5,746 | 5,495 | 3,871 | 9,366 | 5,588 | 4,872 | 10,460 | | |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 20,572 | 20,572 | 21,150 | 5,478 | 26,628 | 20,228 | 4,722 | 24,950 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 30,378 | 27,303 | 26,764 | 4,892 | 31,656 | 23,504 | 5,220 | 28,724 | | |
| | | | | | Total .. | 280,210 | 83,621 | 75,393 | 17,651 | 93,044 | 71,250 | 17,386 | 88,636 | 25·08 | 25·41 |
| Bellary .. | 3,762,781 | 2,817,453 | 2,184,370 | 1 (*a*) | Petty works in charge of Public Works Department .. .. | 35,018 | 35,840 | 29,913 | 6,708 | 36,621 | 26,951 | 5,123 | 32,074 | 29·66 | 23·03 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 22,303 | 21,630 | 16,954 | 6,884 | 23,838 | 14,651 | 4,010 | 18,661 | | |
| | | | | | Total .. | 57,321 | 57,470 | 46,867 | 13,592 | 60,459 | 41,602 | 9,133 | 50,735 | 29·66 | 23·03 |
| Anantapur .. | 3,482,788 | 2,634,032 | 1,507,358 | 1 (*a*) | Petty works in charge of Public Works Department .. .. | 51,355 | 50,482 | 48,314 | 19,586 | 67,900 | 42,019 | 13,322 | 55,341 | 25·68 | 18·63 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 85,044 | 79,313 | 75,403 | 30,077 | 105,480 | 64,868 | 24,041 | 88,909 | | |
| | | | | | Total .. | 136,399 | 129,795 | 123,717 | 49,663 | 173,380 | 106,887 | 37,363 | 144,250 | 25·68 | 18·63 |
| Cuddapah .. | 5,582,760 | 2,413,575 | 1,731,540 | 1 | Kurnool-Cuddapah canal .. | 76,851 | 20,000 | 16,032 | 4,437 | 20,469 | 15,889 | 7,179 | 23,068 | 23·65 | 25·45 |
| | | | | 2 | Sagileru project .. .. .. | 4,342 | 4,342 | .. | .. | .. | 4,342 | 2,623 | 6,965 | | |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 56,568 | 55,177 | 47,377 | 20,118 | 67,495 | 55,131 | 24,457 | 79,588 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 147,913 | 136,831 | 102,245 | 38,056 | 140,301 | 103,068 | 37,753 | 140,821 | | |
| | | | | | Total .. | 285,674 | 216,350 | 165,654 | 62,611 | 228,265 | 178,430 | 72,012 | 250,442 | 23·65 | 25·45 |

IV-E.—Comparative statement of irrigation and rainfall for the official year 1898-99 in the Madras Presidency—*cont.*

| 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. | Area irrigated in acres. | | | | | | Rainfall in inches. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 1897-98. | | | 1898-99. | | | | |
| | Total area in acres. | Culturable area in acres. | Cultivated area in acres. | No. | Name. | | | First crop. | Second crop. | Total. | First crop. | Second crop. | Total. | 1897-98. | 1898-99. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | | | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | INCHES. | INCHES. |
| | | | | 1 | Pennér anikat .. .. .. | 140,769 | 106,146 | 62,098 | 3,949 | 66,047 | 64,774 | 3,628 | 68,402 | | |
| | | | | 2 | Sangam do. .. .. .. | 81,704 | 71,359 | 68,235 | 4,510 | 72,745 | 70,597 | 4,353 | 74,950 | | |
| | | | | 3 | Kistna do. .. .. .. | 1,523 | 1,523 | 1,221 | .. | 1,221 | 1,523 | .. | 1,523 | | |
| Nellore .. | 5,609,600 | 1,964,875 | 1,186,795 | 4 (*a*) | Petty works in charge of Public Works Department .. .. | 102,383 | 92,313 | 74,123 | 7,940 | 82,063 | 87,018 | 8,619 | 95,637 | 24·51 | 37·96 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 36,365 | 32,502 | 24,743 | 5,285 | 30,028 | 31,482 | 7,061 | 38,543 | | |
| | | | | | Total .. | 362,744 | 303,843 | 230,420 | 21,684 | 252,104 | 255,394 | 23,661 | 279,055 | 24·51 | 37·96 |
| | | | | 1 | Pálár anikat .. .. .. | 23,243 | 23,120 | 19,515 | 2,635 | 22,150 | 21,299 | 6,590 | 27,889 | | |
| | | | | 2 | Chembrambakkam tank .. | 13,114 | 13,114 | 10,879 | 3,897 | 14,776 | 12,766 | 3,511 | 16,277 | | |
| | | | | 3 | Madras water-supply and irrigation extension project .. | 7,367 | 7,069 | 7,434 | 3,024 | 10,458 | 7,330 | 2,711 | 10,041 | | |
| Chingleput .. | 1,978,965 | 952,033 | 745,972 | 4 | Vallur anikat .. .. .. | 5,495 | 5,199 | 4,357 | 248 | 4,605 | 4,374 | 459 | 4,833 | 31·97 | 65·48 |
| | | | | 5 (*a*) | Petty works in charge of Public Works Department .. .. | 252,412 | 236,362 | 215,958 | 32,209 | 248,167 | 219,565 | 64,149 | 283,714 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 134,021 | 127,020 | 122,536 | 14,562 | 137,098 | 125,035 | 36,790 | 161,825 | | |
| | | | | | Total .. | 435,652 | 411,884 | 380,679 | 56,575 | 437,254 | 390,369 | 114,210 | 504,579 | 31·97 | 65·48 |
| | | | | 1 | Pelandorai anikat .. .. | 6,892 | 6,803 | 9,645 | 267 | 9,912 | 9,383 | 307 | 9,690 | | |
| | | | | 2 | Lower Coleroon anikat .. .. | 78,846 | 77,735 | 72,153 | 2,138 | 74,291 | 83,122 | 3,439 | 86,561 | | |
| | | | | 3 | Shatiatope anikat .. .. | 26,497 | 24,846 | 29,448 | 4,296 | 33,744 | 29,442 | 4,804 | 34,246 | | |
| | | | | 4 | Vriddháchalam anikat .. .. | 5,747 | 5,608 | 6,204 | 310 | 6,514 | 6,224 | 433 | 6,657 | | |
| | | | | 5 | Mehmattur anikat .. .. | 3,980 | 3,916 | 3,470 | 112 | 3,582 | 3,782 | 136 | 3,918 | | |
| South Arcot. | 3,338,230 | 2,022,214 | 1,685,589 | 6 | Tirukkóyilúr anikat .. .. | 20,532 | 20,331 | 22,398 | 2,854 | 25,252 | 22,237 | 2,861 | 25,098 | 35·64 | 68·63 |
| | | | | 7 (*a*) | Petty works in charge of Public Works Department .. .. | 100,123 | 98,152 | 99,798 | 19,901 | 119,699 | 97,319 | 26,461 | 123,780 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 187,692 | 179,893 | 187,721 | 41,289 | 229,010 | 181,302 | 53,316 | 234,618 | | |
| | | | | | Total .. | 430,309 | 417,284 | 430,837 | 71,167 | 502,004 | 432,811 | 91,757 | 524,568 | 35·64 | 68·63 |
| | | | | 1 | Pálár anikat .. .. .. | 47,454 | 52,103 | 41,951 | 10,763 | 52,714 | 46,204 | 11,063 | 57,267 | | |
| | | | | 2 | Cheyaru anikat .. .. .. | 19,900 | 19,855 | 18,273 | 3,848 | 22,121 | 19,314 | 12,519 | 31,833 | | |
| | | | | 3 | Poiney anikat .. .. .. | 18,388 | 22,093 | 18,774 | 5,023 | 23,797 | 21,474 | 6,702 | 28,176 | | |
| North Arcot. | 4,713,871 | 1,377,938 | 999,370 | 4 (*a*) | Petty works in charge of Public Works Department .. .. | 75,237 | 74,929 | 56,285 | 21,008 | 77,293 | 62,001 | 25,238 | 87,239 | 31·46 | 46·92 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 183,438 | 171,622 | 156,608 | 71,565 | 228,173 | 166,241 | 87,259 | 253,500 | | |
| | | | | | Total .. | 344,417 | 340,602 | 291,891 | 112,207 | 404,098 | 315,234 | 142,781 | 458,015 | 31·46 | 46·92 |
| | | | | 1 | Barur tank project .. .. | 5,796 | 2,947 | 2,652 | 887 | 3,539 | 2,560 | 996 | 3,556 | | |
| | | | | 2 (*a*) | Petty works in charge of Public Works Department .. .. | 30,636 | 29,835 | 25,360 | 11,472 | 36,832 | 27,047 | 10,417 | 37,464 | 36·29 | 40·11 |
| Salem .. | 4,818,379 | 1,797,813 | 1,476,894 | (*b*) | Petty works in charge of Revenue Department .. | 91,398 | 89,181 | 85,347 | 29,306 | 114,653 | 85,859 | 30,562 | 116,421 | | |
| | | | | | Total .. | 127,830 | 121,963 | 113,359 | 41,665 | 155,024 | 115,466 | 41,975 | 157,441 | 36·29 | 40·11 |
| | | | | 1 | Thadapalli channel .. .. | 15,423 | 14,336 | 13,451 | 502 | 13,953 | 13,362 | 932 | 14,294 | | |
| | | | | 2 | Arkankottai channel .. .. | 4,686 | 4,237 | 3,840 | 252 | 4,092 | 3,756 | 345 | 4,101 | | |
| | | | | 3 | Kalingaroyan anikat .. .. | 9,026 | 11,289 | 11,230 | 9,130 | 20,360 | 11,289 | 9,178 | 20,467 | | |
| Coimbatore. | 5,030,420 | 3,039,240 | 2,529,520 | 4 (*a*) | Petty works in charge of Public Works Department .. .. | 63,410 | 61,108 | 59,291 | 20,160 | 79,451 | 60,470 | 19,869 | 80,339 | 27·43 | 32·30 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 10,391 | 9,350 | 8,267 | 3,209 | 11,476 | 8,980 | 2,638 | 11,618 | | |
| | | | | | Total .. | 102,936 | 100,320 | 96,079 | 33,253 | 129,332 | 97,857 | 32,962 | 130,819 | 27·43 | 32·30 |
| | | | | 1 | Cauvery upper anikat .. .. | 51,197 | 42,904 | 43,299 | 17,021 | 60,320 | 45,133 | 19,946 | 65,079 | | |
| | | | | 2 | Nandyar channel .. .. | 7,105 | 4,323 | 4,968 | 2,292 | 7,260 | 5,142 | 2,366 | 7,508 | | |
| Trichinopoly. | 3,028,480 | 1,434,901 | 1,025,729 | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 89,383 | 77,228 | 72,925 | 28,710 | 101,635 | 76,625 | 31,547 | 108,172 | 35·30 | 42·53 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 45,786 | 42,681 | 35,164 | 13,660 | 48,824 | 37,868 | 18,167 | 56,035 | | |
| | | | | | Total .. | 193,471 | 167,136 | 156,356 | 61,683 | 218,039 | 164,768 | 72,026 | 236,794 | 35·30 | 42·53 |

IV-E.—Comparative statement of irrigation and rainfall for the official year 1898-99 in the Madras Presidency—*cont.*

| 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. | Area irrigated in acres. | | | | | | Rainfall in inches. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total area in acres. | Culturable area in acres. | Cultivated area in acres. | No. | Name. | | | 1897-98. | | | 1898-99. | | | 1897-98. | 1898-99. |
| | | | | | | | | First crop. | Second crop. | Total. | First crop. | Second crop. | Total. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | | | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | INCHES. | INCHES. |
| Tanjore .. | 2,371,724 | 1,668,781 | 1,383,103 | 1 | Cauvery upper anikat .. .. | 868,342 | 1,197,667 | 804,429 | 80,146 | 884,575 | 807,960 | 85,482 | 893,442 | 30·16 | 58·25 |
| | | | | 2 | Lower Coleroon anikat .. .. | 55,969 | 24,490 | 22,998 | 1,085 | 24,083 | 23,306 | 1,483 | 24,789 | | |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | Not available. | 23,160 | 16,909 | 1,668 | 18,577 | 19,819 | 2,368 | 22,187 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | Do. | 36,230 | 35,655 | 2,472 | 38,127 | 34,972 | 2,642 | 37,614 | | |
| | | | | | Total .. | 924,311 | 1,281,547 | 879,991 | 85,371 | 965,362 | 886,057 | 91,975 | 978,032 | 30·16 | 58·25 |
| Madura .. | 5,640,462 | 1,442,273 | 1,121,373 | 1 | Periyár project .. .. .. | 116,618 | 81,342 | 69,692 | 20,370 | 90,062 | 75,391 | 24,832 | 100,223 | 26·78 | 39·85 |
| | | | | 2 (*a*) | Petty works in charge of Public Works Department .. .. | 47,243 | 46,658 | 44,718 | 20,668 | 65,386 | 45,700 | 16,379 | 62,079 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 85,834 | 82,624 | 78,527 | 21,017 | 99,544 | 80,653 | 24,267 | 104,920 | | |
| | | | | | Total .. | 249,695 | 210,624 | 192,937 | 62,055 | 254,992 | 201,744 | 65,478 | 267,222 | 26·78 | 39·85 |
| Tinnevelly.. | 3,448,859 | 1,761,039 | 1,378,687 | 1 | Srívaikuntam anikat .. .. | 30,393 | 23,920 | 19,421 | 18,725 | 38,146 | 20,970 | 13,844 | 34,814 | 26·45 | 30·10 |
| | | | | 2 | Marudur anikat .. .. | 17,920 | 17,715 | 17,092 | 15,170 | 32,262 | 17,052 | 14,185 | 31,237 | | |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 102,436 | 100,917 | 93,842 | 65,793 | 159,635 | 95,103 | 62,515 | 157,618 | | |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 87,787 | 86,426 | 75,449 | 33,825 | 109,274 | 76,724 | 34,650 | 111,374 | | |
| | | | | | Total .. | 238,536 | 228,978 | 205,804 | 133,513 | 339,317 | 209,849 | 125,194 | 335,043 | 26·45 | 30·10 |
| Grand Total. | 84,638,020 | 33,549,311 | 25,450,343 | .. | Total of first and second class works .. .. .. .. | 3,857,332 | 3,316,632 | 2,703,920 | 404,873 | 3,108,793 | 2,824,955 | 382,583 | 3,207,538 | 33·01 | 39·70 |
| | | | | | Total of third and fourth class works .. .. .. .. | 2,636,900 | 2,491,324 | 2,264,036 | 649,945 | 2,913,981 | 2,287,878 | 726,620 | 3,014,498 | | |
| | | | | | Total .. | 6,494,232 | 5,807,956 | 4,967,956 | 1,054,818 | 6,022,774 | 5,112,833 | 1,109,203 | 6,222,036 | 33·01 | 39·70 |

First crop is assumed to be equivalent of *kharif*, second crop of *rabi*.

## APPENDIX III.

III-E.—STATEMENT of quantity and value of crops irrigated in the Madras Presidency during the fasli year 1898–99 under Major (Productive) Works and Minor Works for which Capital and Revenue Accounts are kept.

| Name of system. | Description. | | | | | | Total. | |
|---|---|---|---|---|---|---|---|---|
| | Paddy. | | Ragi. | | Other crops | | Area irrigated. | Estimated value. |
| | Area irrigated. | Estimated value. | Area irrigated. | Estimated value | Area irrigated. | Estimated value. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| *Class I.—Works.* | ACS. | RS. | ACS. | RS. | ACS. | RS. | ACS. | RS. |
| 1. Gódávari delta .. .. | 685,698 | 1,83,75,368 | 3,127 | 46,630 | 81,710 | 12,77,944 | 770,535 | 1,96,99,942 |
| 2. Kistna do. .. .. | 556,411 | 1,50,80,691 | 768 | 4,246 | 4,011 | 1,24,973 | 561,190 | 1,52,09,910 |
| 3. Cauvery do. .. .. | 893,628 | 2,65,18,899 | 25,804 | 3,88,219 | 30,613 | 4,59,935 | 950,045 | 2,73,17,053 |
| 4 Pennér anikat .. .. | 66,259 | 20,13,718 | 911 | 9,788 | 1,903 | 12,013 | 69,073 | 20,35,517 |
| 5. Sangam do. .. .. | 69,918 | 22,00,995 | 1,371 | 13,072 | 3,480 | 28,690 | 74,769 | 22,42,759 |
| 6. Srivaikuntam do. .. .. | 81,080 | 4,63,715 | 125 | 672 | 2,029 | 14,102 | 33,234 | 4,78,489 |
| 7. Barur tank project .. .. | 2,997 | 87,351 | 358 | 2,735 | 453 | 3,958 | 3,808 | 94,044 |
| 8. Rushikulya do. .. .. | 79,229 | 17,72,664 | 1,941 | 9,679 | 1,209 | 49,163 | 82,379 | 18,31,506 |
| 9. Kurnool-Cuddapah canal .. | 23,844 | 6,84,496 | 3,070 | 35,687 | 20,090 | 9,39,288 | 47,004 | 16,59,471 |
| 10. Periyár project .. .. | .. | .. | .. | .. | .. | .. | .. | .. |
| *Class II.—Works.* | | | | | | | | |
| 11. Pálár anikat .. .. | 86,715 | 18,66,271 | 7,744 | 46,279 | 4,508 | 24,913 | 98,967 | 19,37,463 |
| 12. Pelandorai do. .. .. | 8,798 | 2,17,655 | 397 | 5,128 | 398 | 9,535 | 9,593 | 2,32,318 |
| 13 Chembrambakkam tank .. | 12,809 | 1,92,927 | 1,334 | 8,403 | 1,066 | 33,563 | 15,209 | 2,34,893 |
| 14. Madras water supply and irrigation extension project. | 7,980 | 1,44,985 | 841 | 5,786 | 578 | 6,463 | 9,399 | 1,57,234 |
| 15. Cumbum tank .. .. .. | 7,944 | 2,80,838 | 369 | 4,426 | 2,150 | 23,731 | 10,463 | 3,08,995 |
| 16. Thadapalli channel .. .. | 13,857 | 5,21,925 | 75 | 640 | 1,014 | 29,815 | 14,946 | 5,52,380 |
| 17. Arakankottai do. .. .. | 4,074 | 1,49,333 | 6 | 58 | 85 | 2,280 | 4,165 | 1,51,671 |
| 18. Kalingarayan do. .. .. | 16,777 | 6,76,317 | 1,925 | 16,062 | 1,819 | 1,50,405 | 20,521 | 8,42,784 |
| 19. Vallur anikat .. | 3,959 | 54,498 | 239 | 1,584 | 401 | 2,111 | 4,599 | 58,193 |
| 20. Cheyáru do. .. | 29,680 | 6,91,392 | 3,296 | 18,655 | 1,006 | 4,304 | 33,982 | 7,14,351 |
| 21. Poiney do. .. | 22,748 | 5,00,413 | 4,700 | 27,086 | 1,625 | 13,148 | 29,073 | 5,40,647 |
| 22. Lower Coleroon do. .. | 106,248 | 31,40,719 | 2,392 | 29,507 | 2,116 | 18,970 | 110,756 | 31,89,196 |
| 23. Shatiatope do. .. | 28,563 | 6,82,574 | 2,722 | 32,334 | 1,013 | 12,502 | 32,298 | 7,27,410 |
| 24. Vriddhachalam do. .. | 6,413 | 1,65,195 | 502 | 5,816 | 219 | 14,347 | 7,134 | 1,85,358 |
| 25. Mehmattur do. .. | 3,741 | 1,05,097 | 58 | 625 | 71 | 2,287 | 3,870 | 1,08,009 |
| 26. Marudur do. .. | 23,764 | 4,00,425 | 261 | 1,344 | 2,970 | 25,994 | 26,995 | 4,27,763 |
| 27. Tirukkóyilúr do. .. | 21,954 | 4,84,834 | 1,911 | 20,013 | 1,051 | 28,115 | 24,916 | 5,32,962 |
| 28. Ganjám minor rivers system .. | 55,529 | 14,57,498 | 1,542 | 9,737 | 3,513 | 22,989 | 60,614 | 14,90,224 |
| 29. Nandyar channel .. .. | 4,809 | 89,703 | 1,129 | 9,180 | 1,054 | 35,918 | 6,992 | 1,34,801 |
| 30. Sagileru project .. .. | 4,915 | 1,53,544 | 1,145 | 14,796 | 852 | 14,540 | 6,912 | 1,82,880 |
| 31. Muniyeru do. .. .. | 2,741 | 71,550 | .. | .. | 28 | 247 | 2,769 | 71,797 |
| 32. Dondapad do. .. .. | 2 | 53 | 96 | 785 | 11 | 285 | 109 | 1,123 |
| Total .. | 2,883,084 | 7,92,45,643 | 70,159 | 7,18,972 | 173,076 | 33,86,528 | 3,126,319 | 8,33,51,143 |

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No. 207 I.

Submitted to Government.

2. With regard to the inconsistencies in the figures referred to in paragraph 6 of the Board's Proceedings, it may be noted that the necessary instructions have already been issued to Superintending Engineers in this office circular memo. No. 12 G., dated 27th June 1899, and they should see that correct figures are determined in communication with the Collectors concerned, where necessary.

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

21st October 1899.



ORDER—No. 929 I., dated 26th October 1899.

The advance copies of the statistical statements III-E and IV-E received from the Board of Revenue will be forwarded to the Government of India, in conformity with its letter No. 2 I., dated 3rd January 1898, printed with G.O., No. 48 I., dated 20th January 1898.

2. The attention of Superintending Engineers is drawn to the remarks in paragraph 2 of the foregoing endorsement of the Chief Engineer for Irrigation.

[Here enter No. 930 I., dated 26th October 1899.]

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineers of Circles.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.

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ENDORSEMENT—No. 930 I., dated 26th October 1899.

Forwarded.

(By order.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

Exd. T. K. Narayana Aiayangar.

# Public Works (1899) Department.

CURRENT No. 8668

*From* The Chief Engineer Punjab

*Order*

No. 207-I

*Dated* 21-10-99

*Received* } 21-10-99

*Registered* }

*Enclosures* Plan and others - 2 } 1 and 2

*Spare copies.*

## SUBJECT.

Statistical Statements III E. & IV E. Submitting advance copies of — for the transmission to the Secretary of State for India.

BACK PAPERS.

| No. | Date. |
|---|---|
| | |

FURTHER PAPERS.

| No. | Date. |
|---|---|
| | |

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Proceedings of the Board of Rev: (Revenue Settlement, Land Records, and Agriculture)

No. 300 dy 27th Sept 1899.

Ro 207. Dy 21.10.99

prepd

Submitted to Government

2. With regard to the circumstances in the figures referred to in para 6 of the Board's Proceedings, it may be stated that the necessary instructions have already been issued to the Supy: Engineers in this office Circular No. 12-G, dated 27th June 1899 & they should see that correct figures are determined in communication with the Collectors concerned, where necessary. No. 929 Dy 26.10.99

Order thereon

The advance copies of

Print and issue emergently & so as to reach the Govt by 1st Nov/99.

J.H.

D.S.

21/10/99

memo

× flag I.

The Statistical statements IIIE and IVE received from the Board of Revenue will be forwarded to the Govt. of India, in conformity with its letter No 2. I., dated 3rd January 1898, printed with G.O., No 48. I., dated 20th January 1898.

2. The attention of the Supdg: Engineers is drawn to the remarks in para 2 of the foregoing endorsement of the Chief Engineer for Irrigation.

Endorsement No: 930 Dy 26.10.99.

Forwarded.

2/10
99.

3/11/99

To,
The Chief Engineer for Irrigation
" Supdg: Engrs. of Circles
" Examiner P.W. Accounts
" Rent Department

E. Form No 1 (a)—100—3-5-99

1899.

# Board of Revenue

(Revenue Settlement, Land Records and Agriculture).

**MADRAS.**

CHIEF ENGINEER FOR IRRIGATION
13 OCT. 1899

Recd. 366m } 1899.
Regd. 13 - 10 —

Enclosures on (B.P. 106 14-4-99)

Spare copies

Printed October th.

**Proceedings, No. 300, 27th September 1899.**

**SEPTEMBER**

*Irrigation and Rainfall.*—Forwarding comparative statements of — for 1898–99.

## PROCEEDINGS OF THE BOARD OF REVENUE

(Revenue Settlement, Land Records and Agriculture).

Mr. A. W. B. Higgens.

Read—again Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 4800, dated 22nd September 1899.

Read—also the following papers :—

| | | | | | |
|---|---|---|---|---|---|
| From the Collector of Anantapur, | dated | 24th | July | 1899, | D. Dis. No. 1952. |
| ,, ,, of Arcot, North | ,, | 16th | ,, | ,, | ,, No. 1335-Ver. |
| ,, ,, of Arcot, South | ,, | 25th | Aug. | ,, | ,, No. 1146-Ver. |
| ,, ,, of Bellary | ,, | 14th | July | ,, | ,, No. 2190. |
| ,, ,, of Chingleput | ,, | 19th | ,, | ,, | R. C. No. 239-Pl. |
| ,, ,, of Coimbatore | ,, | 12th | ,, | ,, | D. Dis. No. 1999-Rev. |
| ,, ,, of Ganjám | ,, | 20th | ,, | ,, | ,, No. 1870-Ver. |
| ,, ,, of Gódávari | ,, | 29th | ,, | ,, | ,, No. 2833-Rev. |
| ,, ,, of Kistna | ,, | 31st | Aug. | ,, | ,, No. 2736-Genl. |
| ,, ,, of ,, | ,, | 23rd | Sept. | ,, | (Telegram). |
| ,, ,, of Kurnool | ,, | 4th | Aug. | ,, | Dis. No. 1783-Gl. |
| ,, ,, of Madura | ,, | 6th | Sept. | ,, | Rev. No. 657-Bd. & Govt. |
| ,, ,, of Nellore | ,, | 16th | July | ,, | D. No. 1960-Ver. |
| ,, ,, of ,, | ,, | 18th | ,, | ,, | D. No. 1996-Ver. |
| ,, ,, of Salem | ,, | 20th | ,, | ,, | Dis. No. 1926. |
| ,, ,, of Tanjore | ,, | 17th | ,, | ,, | D. Dis. No. 2438-Rev. |
| ,, ,, of Tinnevelly | ,, | 22nd | ,, | ,, | R. Dis. No. 615-Genl. Rev. |
| ,, ,, of Trichinopoly | ,, | 17th | ,, | ,, | Ref. on R.P. No. 413. |
| ,, ,, of Vizagapatam | ,, | 25th | ,, | ,, | D. Dis. No. 229. |

Resolution—No. 300, dated 27th September 1899.

The Board forwards herewith statistical statements Nos. III-E and IV-E for the year 1898–99. Figures for columns 2 to 4 of the latter statement have been adopted from the statistical returns for 1897–98, as the returns for 1898–99 will not be available till after the 1st October, the date for the submission of these returns by Collectors having been extended to that date—*vide* paragraph 7 of B.P., No. 106, dated 14th April 1899.

2. Except in parts of the Deccan Districts, the season on the whole was generally favourable for agriculture. The average rainfall for the whole Presidency, excluding Madras, where the land is charged with fixed quit-rents, and the two West Coast districts and the Nilgiris, where there are no irrigation works, was 39·70 inches against 33·00 inches in 1897–98 and 35·50 inches, the average for the five years ending 1897–98. The usual early rains were fairly abundant in those parts of the Presidency most dependent thereon; but there was considerable delay in the setting in of the south-west monsoon rains in parts of the Deccan Districts. In the Circars, the south-west monsoon rains were good and copious; but up to nearly the end of August, the rainfall was very scanty over the greater part of the Deccan, Carnatic, Central and



Southern districts. The rainfall of September was, however, remarkably heavy; and the total fall during this monsoon was normal, or in slight excess over the whole area. This copious rainfall, though late, improved the agricultural outlook greatly and was followed by a heavier rainfall than usual over the greater part of the Presidency during the north-east monsoon. In the Circars, the rainfall at this season was almost normal, and elsewhere except in the Deccan Districts was in considerable excess. During October, the rainfall was good and even heavy except in the Deccan and parts of the Central districts; but in November, the fall was good or heavy throughout the districts of the East Coast and consequently there were floods in some parts, though no great damage was caused thereby. The partial failure of these later monsoon rains in parts of Vizagapatam and of the Deccan caused some loss of crop. During the remainder of the year, the rainfall was rather less than usual throughout.

3. The Gódávari began to rise on the 15th June and reached a maximum height of 9·6 feet above the new crest of the anikat on the 25th July 1898. The Kistna was in fresh at the end of the first week of June and rose to 13·3 feet above the crest of the anikat on the 28th July 1898. This was the highest recorded point during the year against 14·25 feet on the 12th August 1897. The supplies in the Pennér were early and copious. There were moderate freshets in the Cauvery from May to July; but in August, the river was unusually low and continued in that condition till October when it rose, and there was an ample supply to mature the crops.

4. A statement showing the rainfall in each district during each half of the year under report compared with the fall during the previous year and with the average for the five years ending 1897–98—Appendix I—is appended.

5. The following abstract shows the areas actually irrigated from Government sources in 1898–99 as compared with the figures for 1897–98—particulars are given in Appendix II :—

| Area irrigated under | * 1897–98. | 1898–99. | Difference. |
|---|---|---|---|
| | Acs. | Acs. | Acs. |
| Anikat and other important works, classes I and II .. .. .. | 3,108,793 | 3,207,538 | + 98,745 |
| Other works, classes III and IV .. .. .. .. .. .. | 2,913,981 | 3,014,498 | + 100,517 |
| Total .. | 6,022,774 | 6,222,036 | + 199,262 |

* Revised figures.

6. In some districts, the area shown as actually irrigated (column 12) is greater than that shown in column 8 (area at present estimated as annually irrigable) and that shown in the latter column is greater than the figure entered in column 7 (culturable area commanded by irrigation works). The Chief Engineer will be requested to issue such instructions as will ensure that correct figures for insertion in columns 7 and 8 are forthcoming in future.

7. As compared with the previous year, there was an increase of 98,745 and 100,517 acres under works of classes I and II and other works (classes III and IV), respectively, resulting in a total increase of 199,262 acres. The increase under works of classes I and II occurred under all the systems, except the Gódávari anikat, the Madras water-supply and irrigation extension project, and the Pelandorai, Tirukkóyilúr, Srívaikuntam and Marudur anikats. The large decrease (23,592 acres) under the Gódávari system occurred chiefly under second crop cultivation and was due to there having been an exceptionally large area of second crop cultivation in the previous year. The decreases under the other systems were small and call for no remarks. Irrigation under the Sagileru, Muniyéru and Dondapad projects was charged for the first time during the year under review.

Under works of classes III and IV, the increase occurred in all the districts except Ganjám, Vizagapatam, Kistna, Kurnool, Bellary and Anantapur. The Collector of Cuddapah has been asked to explain the large increase shown in his district. The decrease in Ganjám was due to the extension of irrigation under the Rushikulya project and to the consequent transfer of land irrigated by class IV works to class I

works. The decrease in Kistna was only nominal and was due to the fact that the figures for 1897–98 include the irrigation under the Muniyéru and Dondapad projects which are shown separately for the year under report. The decrease in the remaining four districts was due to the unfavourable character of the season therein.

8. Statement No. III-E does not include statistics relating to the Periyár project, the accounts of which are still incomplete. The net area, according to statement No. IV-E in respect of works of classes I and II, after excluding the area 100,223 acres shown as irrigated by that project, is 3,107,315 acres, which is less than the area (3,126,319 acres) shown in statement No. III-E by 19,004 acres. This difference is due, as stated in B.P., No. 428, Revenue Settlement, dated 24th November 1898, partly to the fact that statement No. IV-E relates to the official, while statement No. III-E relates to the agricultural year and partly to the circumstance that the former statement shows the areas actually irrigated, while the latter excludes the extent on which crops withered.

(True Extract.)

(Signed) C. BENSON
Deputy Director
*for* Secretary.

(True Copy.)

First Assistant

To the Chief Engineer for Irrigation, with a spare copy of B.P., No. 106, dated 14th April 1899.

Copy to the Collectors of all districts, except Madras, South Canara, Malabar and the Nilgiris.





## APPENDIX I.

Comparative statement of rainfall in each district.

| Districts. | Average of five years ending 1897–98. | | 1897–98. | | 1898–99. | |
|---|---|---|---|---|---|---|
| | April to September. | October to March. | April to September. | October to March. | April to September. | October to March. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | INCHES. | INCHES. | INCHES. | INCHES. | INCHES. | INCHES. |
| Ganjám .. .. .. .. .. | 38·55 | 10·60 | 37·58 | 16·63 | 34·40 | 10·62 |
| Vizagapatam .. .. .. .. | 40·28 | 9·89 | 38·84 | 12·52 | 32·03 | 8·99 |
| Gódávari .. .. .. .. | 29·70 | 13·52 | 33·38 | 13·15 | 28·56 | 14·18 |
| Kistna .. .. .. .. .. | 24·77 | 9·05 | 26·38 | 5·59 | 20·73 | 10·42 |
| Kurnool .. .. .. .. .. | 18·62 | 6·09 | 22·23 | 2·85 | 21·65 | 3·76 |
| Bellary .. .. .. .. .. | 18·59 | 5·59 | 26·85 | 2·81 | 18·53 | 4·50 |
| Anantapur .. .. .. .. | 16·39 | 5·99 | 22·60 | 3·08 | 13·89 | 4·74 |
| Cuddapah .. .. .. .. | 17·35 | 9·35 | 19·62 | 4·03 | 14·44 | 11·01 |
| Nellore .. .. .. .. .. | 14·44 | 19·08 | 18·37 | 6·14 | 12·13 | 25·83 |
| Chingleput .. .. .. .. | 18·79 | 26·43 | 22·29 | 9·68 | 18·86 | 46·62 |
| South Arcot .. .. .. .. | 20·51 | 24·64 | 24·48 | 11·16 | 23·18 | 45·45 |
| North Arcot .. .. .. .. | 20·07 | 15·19 | 25·02 | 6·44 | 21·36 | 25·56 |
| Salem .. .. .. .. .. | 23·20 | 11·95 | 28·52 | 7·77 | 19·97 | 20·14 |
| Coimbatore .. .. .. .. | 15·00 | 12·56 | 19·14 | 8·29 | 16·30 | 16·00 |
| Trichinopoly .. .. .. .. | 19·31 | 17·48 | 26·83 | 8·47 | 16 29 | 26·24 |
| Tanjore .. .. .. .. .. | 15·84 | 28·71 | 18·07 | 12·09 | 15·98 | 42·27 |
| Madura .. .. .. .. .. | 13 56 | 20·20 | 16 75 | 10·03 | 14·23 | 25·62 |
| Tinnevelly .. .. .. .. | 7·42 | 19·93 | 11·80 | 14·65 | 6·32 | 23·78 |
| Average .. | 20·70 | 14·80 | 24·38 | 8·63 | 19·38 | 20·32 |

## APPEN

### IV-E.—COMPARATIVE statement of irrigation and rainfall for

| 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. |
|---|---|---|---|---|---|---|---|
| | Total area in acres. | Culturable area in acres. | Cultivated area in acres. | No. | Name. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | ACS. | ACS. |
| Ganjám .. | 5,356,160 | 590,859 | 537,472 | 1 | Rushikulya project .. .. | 143,410 | 121,410 |
| | | | | 2 | Ganjám minor rivers system .. | 60,000 | 58,000 |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 44,564 | 44,564 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 81,972 | 81,972 |
| | | | | | Total .. | 329,946 | 305,946 |
| Vizagapatam. | 11,035,181 | 353,237 | 339,790 | 1 (*a*) | Petty works in charge of Public Works Department .. .. | 55,413 | 54,600 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 53,312 | 52,143 |
| | | | | | Total .. | 108,725 | 106,743 |
| Gódávari .. | 5,028,480 | 1,700,070 | 1,316,521 | 1 | Gódávari anikat .. .. .. | 773,899 | 669,330 |
| | | | | 2 | Kistna anikat .. .. .. | 39,276 | 39,276 |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 49,415 | 44,562 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 50,895 | 47,451 |
| | | | | | Total .. | 913,485 | 800,619 |
| Kistna .. | 5,438,720 | 3,070,992 | 2,423,916 | 1 | Kistna anikat .. .. .. | 820,000 | 475,000 |
| | | | | 2 | Gódávari anikat .. .. .. | 12,500 | 5,670 |
| | | | | 3 | Muniyeru project .. .. | 12,900 | .. |
| | | | | 4 | Dondapad do. .. .. | 1,868 | 1,868 |
| | | | | 5 (*a*) | Petty works in charge of Public Works Department .. .. | 100,391 | 16,870 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 25,812 | 23,823 |
| | | | | | Total .. | 972,571 | 523,231 |
| Kurnool .. | 4,972,160 | 2,507,986 | 1,876,344 | 1 | Kurnool-Cuddapah canal .. | 223,149 | 30,000 |
| | | | | 2 | Cumbum tank .. .. .. | 6,111 | 5,746 |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 20,572 | 20,572 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 30,378 | 27,303 |
| | | | | | Total .. | 280,210 | 83,621 |
| Bellary .. | 3,762,781 | 2,817,453 | 2,184,370 | 1 (*a*) | Petty works in charge of Public Works Department .. .. | 35,018 | 35,840 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 22,303 | 21,630 |
| | | | | | Total .. | 57,321 | 57,470 |
| Anantapur .. | 3,482,788 | 2,634,032 | 1,507,358 | 1 (*a*) | Petty works in charge of Public Works Department .. .. | 51,355 | 50,482 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 85,044 | 79,313 |
| | | | | | Total .. | 136,399 | 129,795 |
| Cuddapah .. | 5,582,760 | 2,413,575 | 1,731,540 | | Kurnool-Cuddapah canal .. | 76,851 | 20,000 |
| | | | | 1 | Sagileru project .. .. .. | 4,342 | 4,342 |
| | | | | 2 | Petty works in charge of Public Works Department .. .. | 56,568 | 55,177 |
| | | | | 3 (*a*) | Petty works in charge of Revenue Department .. .. .. | 147,913 | 136,831 |
| | | | | (*b*) | Total .. | 285,674 | 216,350 |



## DIX II.

### the official year 1898–99 in the Madras Presidency.

| Area irrigated in acres. | | | | | | Rainfall in inches. | |
|---|---|---|---|---|---|---|---|
| 1897–98. | | | 1898–99 | | | 1897–98. | 1898–99. |
| First crop. | Second crop. | Total. | first crop. | Second crop. | Total. | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | INCHES. | INCHES. |
| 63,123 | 1,285 | 64,408 | 74,046 | 2,738 | 76,784 | 54·21 | 45·02 |
| 51,399 | 7,498 | 58,897 | 59,745 | 5,345 | 65,090 | | |
| 42,881 | 1,480 | 44,361 | 37,456 | 1,739 | 39,195 | | |
| 72,506 | 4,668 | 77,174 | 68,731 | 4,042 | 72,773 | | |
| 229,909 | 14,931 | 244,840 | 239,978 | 13,864 | 253,842 | 54·21 | 45·02 |
| 47,298 | 25,198 | 72,496 | 45,695 | 18,457 | 64,152 | 51·36 | 41·02 |
| 50,215 | 10,414 | 60,629 | 37,943 | 14,186 | 52,129 | | |
| 97,513 | 35,612 | 133,125 | 83,638 | 32,643 | 116,281 | 51·36 | 41·02 |
| 622,830 | 170,561 | 793,391 | 649,899 | 119,968 | 769,867 | 46·53 | 42·74 |
| 22,960 | 22 | 22,982 | 26,442 | .. | 26,442 | | |
| 38,990 | 4,981 | 43,971 | 45,202 | 1,903 | 47,105 | | |
| 33,313 | 4,184 | 37,497 | 42,552 | 1,874 | 44,426 | | |
| 718,093 | 179,748 | 897,841 | 764,095 | 123,745 | 887,840 | 46·53 | 42·74 |
| 484,072 | 335 | 484,407 | 508,434 | 101 | 508,535 | 31·97 | 31·15 |
| 6,898 | .. | 6,898 | 6,830 | .. | 6,830 | | |
| .. | .. | .. | 1,931 | 80 | 2,011 | | |
| .. | .. | .. | 113 | .. | 113 | | |
| 20,887 | 998 | 21,885 | 19,163 | 215 | 19,378 | | |
| 20,600 | 504 | 21,104 | 20,933 | 642 | 21,575 | | |
| 532,457 | 1,837 | 534,294 | 557,404 | 1,038 | 558,442 | 31·97 | 31·15 |
| 21,984 | 3,410 | 25,394 | 21,930 | 2,572 | 24,502 | 25·08 | 25·41 |
| 5,495 | 3,871 | 9,366 | 5,588 | 4,872 | 10,460 | | |
| 21,150 | 5,478 | 26,628 | 20,228 | 4,722 | 24,950 | | |
| 26,764 | 4,892 | 31,656 | 23,504 | 5,220 | 28,724 | | |
| 75,393 | 17,651 | 93,044 | 71,250 | 17,386 | 88,636 | 25·08 | 25·41 |
| 29,913 | 6,708 | 36,621 | 26,951 | 5,123 | 32,074 | 29·66 | 23·03 |
| 16,954 | 6,884 | 23,838 | 14,651 | 4,010 | 18,661 | | |
| 46,867 | 13,592 | 60,459 | 41,602 | 9,133 | 50,735 | 29·66 | 23·03 |
| 48,314 | 19,586 | 67,900 | 42,019 | 13,322 | 55,341 | 25·68 | 18·63 |
| 75,403 | 30,077 | 105,480 | 64,868 | 24,041 | 88,909 | | |
| 123,717 | 49,663 | 173,380 | 106,887 | 37,363 | 144,250 | 25·68 | 18·63 |
| 16,032 | 4,437 | 20,469 | 15,889 | 7,179 | 23,068 | 23·65 | 25·45 |
| .. | .. | .. | 4,342 | 2,623 | 6,965 | | |
| 47,377 | 20,118 | 67,495 | 55,131 | 24,457 | 79,588 | | |
| 102,245 | 38,056 | 140,301 | 103,068 | 37,753 | 140,821 | | |
| 165,654 | 62,611 | 228,265 | 178,430 | 72,012 | 250,442 | 23·65 | 25·45 |

IV-E.—Comparative statement of irrigation and rainfall for the official year 1898–99 in the Madras Presidency—*cont.*

| 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. |
|---|---|---|---|---|---|---|---|
| | Total area in acres. | Culturable area in acres. | Cultivated area in acres. | No. | Name. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | ACS. | ACS. |
| | | | | 1 | Pennér anikat .. .. .. | 140,769 | 106,146 |
| | | | | 2 | Sangam do. .. .. .. | 81,704 | 71,359 |
| | | | | 3 | Kistna do. .. .. .. | 1,523 | 1,523 |
| Nellore .. | 5,609,600 | 1,964,875 | 1,186,795 | 4 (*a*) | Petty works in charge of Public Works Department .. .. | 102,383 | 92,313 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. .. .. | 86,365 | 32,502 |
| | | | | | Total .. | 862,744 | 303,843 |
| | | | | 1 | Pálár anikat .. .. .. | 23,243 | 23,120 |
| | | | | 2 | Chembrambakkam tank .. | 13,114 | 13,114 |
| | | | | 3 | Madras water supply and irrigation extension project .. | 7,367 | 7,069 |
| Chingleput.. | 1,978,965 | 952,033 | 745,972 | 4 | Vallur anikat .. .. .. | 5,495 | 5,199 |
| | | | | 5 (*a*) | Petty works in charge of Public Works Department .. .. | 252,412 | 236,862 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 134,021 | 127,020 |
| | | | | | Total .. | 435,652 | 411,884 |
| | | | | 1 | Pelandorai anikat .. .. | 6,892 | 6,803 |
| | | | | 2 | Lower Coleroon anikat .. .. | 78,846 | 77,735 |
| | | | | 3 | Shatiatope anikat .. .. | 26,497 | 24,846 |
| | | | | 4 | Vriddháchalam anikat .. .. | 5,747 | 5,608 |
| | | | | 5 | Mehmattur anikat .. .. | 3,980 | 3,916 |
| | | | | 6 | Tirukkóyilúr anikat .. .. | 20,532 | 20,331 |
| South Arcot. | 3,338,230 | 2,022,214 | 1,685,589 | 7 (*a*) | Petty works in charge of Public Works Department .. .. | 100,123 | 98,152 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 187,692 | 179,893 |
| | | | | | Total .. | 430,309 | 417,284 |
| | | | | 1 | Pálár anikat .. .. .. | 47,454 | 52,103 |
| | | | | 2 | Cheyaru anikat .. .. .. | 19,900 | 19,855 |
| | | | | 3 | Poiney anikat .. .. .. | 18,388 | 22,093 |
| North Arcot. | 4,713,871 | 1,377,938 | 999,370 | 4 (*a*) | Petty works in charge of Public Works Department .. .. | 75,237 | 74,929 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 183,438 | 171,622 |
| | | | | | Total .. | 344,417 | 340,602 |
| | | | | 1 | Barur tank project .. .. | 5,796 | 2,947 |
| | | | | 2 (*a*) | Petty works in charge of Public Works Department .. .. | 30,636 | 29,835 |
| Salem .. | 4,818,379 | 1,797,813 | 1,476,894 | (*b*) | Petty works in charge of Revenue Department .. | 91,398 | 89,181 |
| | | | | | Total .. | 127,830 | 121,963 |
| | | | | 1 | Thadapalli channel .. .. | 15,423 | 14,336 |
| | | | | 2 | Arkankottai channel .. .. | 4,686 | 4,237 |
| | | | | 3 | Kalingaroyan anikat .. .. | 9,026 | 11,289 |
| Coimbatore. | 5,030,420 | 3,039,240 | 2,529,520 | 4 (*a*) | Petty works in charge of Public Works Department .. .. | 63,410 | 61,108 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 10,391 | 9,350 |
| | | | | | Total .. | 102,936 | 100,320 |
| | | | | 1 | Cauvery upper anikat .. .. | 51,197 | 42,904 |
| | | | | 2 | Nandyar channel .. .. | 7,105 | 4,323 |
| Trichinopoly. | 3,028,480 | 1,434,901 | 1,025,729 | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 89,383 | 77,228 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 45,786 | 42,681 |
| | | | | | Total .. | 193,471 | 167,136 |



| Area irrigated in acres. | | | | | | Rainfall in inches. | |
|---|---|---|---|---|---|---|---|
| 1897-98. | | | 1898-99. | | | 1897-98. | 1898-99. |
| First crop. | Second crop. | Total. | First crop. | Second crop. | Total. | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | INCHES. | INCHES. |
| 62,098 | 3,949 | 66,047 | 64,774 | 3,628 | 68,402 | | |
| 68,235 | 4,510 | 72,745 | 70,597 | 4,353 | 74,950 | | |
| 1,221 | .. | 1,221 | 1,523 | .. | 1,523 | 24·51 | 37·96 |
| 74,123 | 7,940 | 82,063 | 87,018 | 8,619 | 95,637 | | |
| 24,743 | 5,285 | 30,028 | 31,482 | 7,061 | 38,543 | | |
| 230,420 | 21,684 | 252,104 | 255,394 | 23,661 | 279,055 | 24·51 | 37·96 |
| 19,515 | 2,635 | 22,150 | 21,299 | 6,590 | 27,889 | | |
| 10,879 | 3,897 | 14,776 | 12,766 | 3,511 | 16,277 | | |
| 7,434 | 3,024 | 10,458 | 7,330 | 2,711 | 10,041 | | |
| 4,357 | 248 | 4,605 | 4,374 | 459 | 4,833 | 31·97 | 65·48 |
| 215,958 | 32,209 | 248,167 | 219,565 | 64,149 | 283,714 | | |
| 122,536 | 14,562 | 137,098 | 125,035 | 36,790 | 161,825 | | |
| 380,679 | 56,575 | 437,254 | 390,369 | 114,210 | 504,579 | 31·97 | 65·48 |
| 9,645 | 267 | 9,912 | 9,383 | 307 | 9,690 | | |
| 72,153 | 2,138 | 74,291 | 83,122 | 3,439 | 86,561 | | |
| 29,448 | 4,296 | 33,744 | 29,442 | 4,804 | 34,246 | | |
| 6,204 | 310 | 6,514 | 6,224 | 433 | 6,657 | | |
| 3,470 | 112 | 3,582 | 3,782 | 136 | 3,918 | 35·64 | 68·63 |
| 22,368 | 2,854 | 25,252 | 22,237 | 2,861 | 25,098 | | |
| 99,798 | 19,901 | 119,699 | 97,319 | 26,461 | 123,780 | | |
| 187,721 | 41,289 | 229,010 | 181,302 | 53,316 | 234,618 | | |
| 430,837 | 71,167 | 502,004 | 432,811 | 91,757 | 524,568 | 35·64 | 68·63 |
| 41,951 | 10,763 | 52,714 | 46,204 | 11,063 | 57,267 | | |
| 18,273 | 3,848 | 22,121 | 19,314 | 12,519 | 31,833 | | |
| 18,774 | 5,023 | 23,797 | 21,474 | 6,702 | 28,176 | | |
| 56,285 | 21,008 | 77,293 | 62,001 | 25,238 | 87,239 | 31·46 | 46·92 |
| 156,608 | 71,565 | 228,173 | 166,241 | 87,259 | 253,500 | | |
| 291,891 | 112,207 | 404,098 | 315,234 | 142,781 | 458,015 | 31·46 | 46·92 |
| 2,652 | 887 | 3,539 | 2,560 | 996 | 3,556 | | |
| 25,360 | 11,472 | 36,832 | 27,047 | 10,417 | 37,464 | 36·29 | 40·11 |
| 85,347 | 29,306 | 114,653 | 85,859 | 30,562 | 116,421 | | |
| 113,359 | 41,665 | 155,024 | 115,466 | 41,975 | 157,441 | 36·29 | 40·11 |
| 13,451 | 502 | 13,953 | 13,362 | 932 | 14,294 | | |
| 3,840 | 252 | 4,092 | 3,756 | 345 | 4,101 | | |
| 11,230 | 9,130 | 20,360 | 11,289 | 9,178 | 20,467 | | |
| 59,291 | 20,160 | 79,451 | 60,470 | 19,869 | 80,339 | 27·43 | 32·30 |
| 8,267 | 3,209 | 11,476 | 8,980 | 2,638 | 11,618 | | |
| 96,079 | 33,253 | 129,332 | 97,857 | 32,962 | 130,819 | 27·43 | 32·30 |
| 43,299 | 17,021 | 60 320 | 45,133 | 19,946 | 65,079 | | |
| 4,968 | 2,292 | 7,260 | 5,142 | 2,366 | 7,508 | | |
| 72,925 | 28,710 | 101,635 | 76,625 | 31,547 | 108,172 | 35·30 | 42·53 |
| 35,164 | 13,660 | 48,824 | 37,868 | 18,167 | 56,035 | | |
| 156,356 | 61,683 | 218,039 | 164,768 | 72,026 | 236,794 | 35·30 | 42·53 |

IV-E.—Comparative statement of irrigation and rainfall for the official year 1898–99 in the Madras Presidency—*cont.*

| 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. |
|---|---|---|---|---|---|---|---|
| | Total area in acres. | Culturable area in acres. | Cultivated area in acres. | No. | Name. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | ACS. | ACS. |
| Tanjore .. | 2,371,724 | 1,668,781 | 1,383,103 | 1 | Cauvery upper anikat .. .. | 868,342 | 1,197,667 |
| | | | | 2 | Lower Coleroon anikat .. .. | 55,969 | 24,490 |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | Not available. | 23,160 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | Do. | 36,230 |
| | | | | | Total .. | 924,311 | 1,281,547 |
| Madura .. | 5,640,462 | 1,442,273 | 1,121,373 | 1 | Periyár project .. .. .. | 116,618 | 81,342 |
| | | | | 2 (*a*) | Petty works in charge of Public Works Department .. .. | 47,243 | 46,658 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 85,834 | 82,624 |
| | | | | | Total .. | 249,695 | 210,624 |
| Tinnevelly.. | 3,448,859 | 1,761,039 | 1,378,687 | 1 | Srívaikuntam anikat .. .. | 30,393 | 23,920 |
| | | | | 2 | Marudur anikat .. .. | 17,920 | 17,715 |
| | | | | 3 (*a*) | Petty works in charge of Public Works Department .. .. | 102,436 | 100,917 |
| | | | | (*b*) | Petty works in charge of Revenue Department .. | 87,787 | 86,426 |
| | | | | | Total .. | 238,536 | 228,978 |
| Grand Total. | 84,638,020 | 33,549,311 | 25,450,343 | .. | Total of first and second class works .. .. .. .. | 3,857,332 | 3,316,632 |
| | | | | .. | Total of third and fourth class works .. .. .. .. | 2,636,900 | 2,491,324 |
| | | | | | Total .. | 6,494,232 | 5,807,956 |



| Area irrigated in acres. | | | | | | Rainfall in inches. | |
|---|---|---|---|---|---|---|---|
| 1897–98. | | | 1898–99. | | | 1897–98. | 1898–99. |
| First crop. | Second crop. | Total. | First crop. | Second crop. | Total. | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| ACS. | ACS. | ACS. | ACS. | ACS. | ACS. | INCHES. | INCHES. |
| 804,429 | 80,146 | 884,575 | 807,960 | 85,482 | 893,442 | 30·16 | 58·25 |
| 22,998 | 1,085 | 24,083 | 23,306 | 1,483 | 24,789 | | |
| 16,909 | 1,668 | 18,577 | 19,819 | 2,368 | 22,187 | | |
| 35,655 | 2,472 | 38,127 | 34,972 | 2,642 | 37,614 | | |
| 879,991 | 85,371 | 965,362 | 886,057 | 91,975 | 978,032 | 30·16 | 58·25 |
| 69,692 | 20,370 | 90,062 | 75,391 | 24,832 | 100,223 | 26·78 | 39·85 |
| 44,718 | 20,668 | 65,386 | 45,700 | 16,379 | 62,079 | | |
| 78,527 | 21,017 | 99,544 | 80,653 | 24,267 | 104,920 | | |
| 192,937 | 62,055 | 254,992 | 201,744 | 65,478 | 267,222 | 26·78 | 39·85 |
| 19,421 | 18,725 | 38,146 | 20,970 | 13,844 | 34,814 | 26·45 | 30·10 |
| 17,092 | 15,170 | 32,262 | 17,052 | 14,185 | 31,237 | | |
| 93,842 | 65,793 | 159,635 | 95,103 | 62,515 | 157,618 | | |
| 75,449 | 33,825 | 109,274 | 76,724 | 34,650 | 111,374 | | |
| 205,804 | 133,513 | 339,317 | 209,849 | 125,194 | 335,043 | 26·45 | 30·10 |
| 2,703,920 | 404,873 | 3,108,793 | 2,824,955 | 382,583 | 3,207,538 | 33·01 | 39·70 |
| 2,264,036 | 649,945 | 2,913,981 | 2,287,878 | 726,620 | 3,014,498 | | |
| 4,967,956 | 1,054,818 | 6,022,774 | 5,112,833 | 1,109,203 | 6,222,036 | 33·01 | 39·70 |

First crop is assumed to be equivalent of *kharif*, second crop of *rabi*.

## APPENDIX III.

III-E.—Statement of quantity and value of crops irrigated in the Madras Presidency during the fasli year 1898–99 under Major (Productive) Works and Minor Works for which Capital and Revenue Accounts are kept.

| Name of system. | Description. | | | | | | Total. | |
|---|---|---|---|---|---|---|---|---|
| | Paddy. | | Ragi. | | Other crops | | Area irrigated. | Estimated value. |
| | Area irrigated. | Estimated value. | Area irrigated. | Estimated value | Area irrigated. | Estimated value. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| *Class I.—Works.* | ACS. | RS. | ACS. | RS. | ACS. | RS. | ACS. | RS. |
| 1. Gódávari delta .. .. | 685,698 | 1,83,75,368 | 3,127 | 46,630 | 81,710 | 12,77,944 | 770,535 | 1,96,99,942 |
| 2. Kistna do. .. .. | 556,411 | 1,50,80,691 | 768 | 4,246 | 4,011 | 1,24,973 | 561,190 | 1,52,09,910 |
| 3. Cauvery do. .. .. | 893,628 | 2,65,18,899 | 25,804 | 3,38,219 | 30,613 | 4,59,935 | 950,045 | 2,73,17,053 |
| 4. Pennér anikat .. .. | 66,259 | 20,13,718 | 911 | 9,788 | 1,903 | 12,013 | 69,073 | 20,35,517 |
| 5. Sangam do. .. .. | 69,918 | 22,00,995 | 1,371 | 13,072 | 3,480 | 28,690 | 74,769 | 22,42,759 |
| 6. Srivaikuntam do. .. .. | 31,080 | 4,63,715 | 125 | 672 | 2,029 | 14,102 | 33,234 | 4,78,489 |
| 7. Barur tank project .. .. | 2,997 | 87,351 | 358 | 2,735 | 453 | 3,958 | 3,808 | 94,044 |
| 8. Rushikulya do. .. .. | 79,229 | 17,72,664 | 1,941 | 9,679 | 1,209 | 49,163 | 82,379 | 18,31,506 |
| 9. Kurnool-Cuddapah canal .. | 23,844 | 6,84,496 | 3,070 | 35,687 | 20,090 | 9,39,288 | 47,004 | 16,59,471 |
| 10. Periyár project .. .. | .. | .. | .. | .. | .. | .. | .. | .. |
| *Class II.—Works.* | | | | | | | | |
| 11. Pálár anikat .. .. | 86,715 | 18,66,271 | 7,744 | 46,279 | 4,508 | 24,913 | 98,967 | 19,37,463 |
| 12. Pelandorai do. .. .. | 8,798 | 2,17,655 | 397 | 5,128 | 398 | 9,535 | 9,593 | 2,32,318 |
| 13 Chembrambakkam tank .. | 12,809 | 1,92,927 | 1,334 | 8,403 | 1,066 | 35,563 | 15,209 | 2,34,893 |
| 14. Madras water supply and irrigation extension project. | 7,980 | 1,44,985 | 841 | 5,786 | 578 | 6,463 | 9,399 | 1,57,234 |
| 15. Cumbum tank .. .. .. | 7,944 | 2,80,838 | 369 | 4,426 | 2,150 | 23,731 | 10,463 | 3,08,995 |
| 16. Thadapalli channel .. .. | 13,857 | 5,21,925 | 75 | 640 | 1,014 | 29,815 | 14,946 | 5,52,380 |
| 17. Arakankottai do. .. .. | 4,074 | 1,49,333 | 6 | 58 | 85 | 2,280 | 4,165 | 1,51,671 |
| 18. Kalingaroyan do. .. .. | 16,777 | 6,76,317 | 1,925 | 16,062 | 1,819 | 1,50,405 | 20,521 | 8,42,784 |
| 19. Vallur anikat .. | 3,959 | 54,498 | 239 | 1,584 | 401 | 2,111 | 4,599 | 58,193 |
| 20. Cheyáru do. .. | 29,680 | 6,91,392 | 3,296 | 18,655 | 1,006 | 4,304 | 33,982 | 7,14,351 |
| 21. Poiney do. .. | 22,748 | 5,00,413 | 4,700 | 27,086 | 1,625 | 13,148 | 29,073 | 5,40,647 |
| 22. Lower Coleroon do. .. | 106,248 | 31,40,719 | 2,392 | 29,507 | 2,116 | 18,970 | 110,756 | 31,89,196 |
| 23. Shatiatope do. .. | 28,563 | 6,82,574 | 2,722 | 32,334 | 1,013 | 12,502 | 32,298 | 7,27,410 |
| 24. Vriddhachalam do. .. | 6,413 | 1,65,195 | 502 | 5,816 | 219 | 14,347 | 7,134 | 1,85,358 |
| 25. Mehmattur do. .. | 3,741 | 1,05,097 | 58 | 625 | 71 | 2,287 | 3,870 | 1,08,009 |
| 26. Marudur do. .. | 23,764 | 4,00,425 | 261 | 1,344 | 2,970 | 25,994 | 26,995 | 4,27,763 |
| 27. Tirukkóyilúr do. .. | 21,954 | 4,84,834 | 1,911 | 20,013 | 1,051 | 28,115 | 24,916 | 5,32,962 |
| 28. Ganjám minor rivers system .. | 55,529 | 14,57,498 | 1,542 | 9,737 | 3,513 | 22,989 | 60,614 | 14,90,224 |
| 29. Nandyar channel .. .. | 4,809 | 89,703 | 1,129 | 9,180 | 1,054 | 35,918 | 6,992 | 1,34,801 |
| 30. Sagileru project .. .. | 4,915 | 1,53,544 | 1,145 | 14,796 | 852 | 14,540 | 6,912 | 1,82,880 |
| 31. Muniyeru do. .. .. | 2,741 | 71,550 | .. | .. | 28 | 247 | 2,769 | 71,797 |
| 32. Dondapad do. .. .. | 2 | 53 | 96 | 785 | 11 | 285 | 109 | 1,123 |
| Total .. | 2,883,084 | 7,92,45,643 | 70,159 | 7,18,972 | 173,076 | 33,86,528 | 3,126,319 | 8,33,51,143 |

Govt Print

REVENUE DEPARTMENT.

**1899.**

# Board of Revenue

## (Revenue Settlement, Land Records and Agriculture),

## MADRAS.

FOR IRRIGATION.
13 OCT. 1899

*Recd.* } 1899. *Enclosures*

*Regd.* *Spare copies*

*Printed May 17th.*

**Proceedings, No. 106, 14th April 1899.**

**APRIL.**

*Agricultural statistics and Jamabandi statements.*—Communicating, with remarks, to Collectors for information and guidance, orders regarding the preparation and submission of certain returns of —.

## PROCEEDINGS OF THE BOARD OF REVENUE

(Revenue Settlement, Land Records and Agriculture).

Read—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), dated 16th June 1896, Mis. No. 2978 :—

*Read*—the following G.O., No. 206, Revenue, dated 21st May 1896 :—

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), No. 20, dated 4th February 1896 :—

The Full Board.

Resolution—No. 20, dated 4th February 1896.

The Board begs to submit herewith, for the early and favourable consideration of Government, a joint memorandum prepared by the Board's Secretaries and the Deputy Director of Land Records and Agriculture, containing suggestions for reducing the work of the over-burdened taluk and village establishments by dispensing with the annual compilation of certain agricultural statistics, and requiring their compilation only once in ten years, when they may be published with the report on the decennial census.

2. The village accountants have recently been trained in survey, and they are now the recognized agency for making, or maintaining, the survey of every district. In the immediate future every village accountant has to prepare, from the survey records, a Field Measurement Book in which every field and sub-division in the village has to be plotted to scale, with an entry of the measurement of every side; and duplicate copies of this book will also have to be made by them.

In this and other directions the work of the village accountants has increased of late years to such an extent that it has become a matter of urgent necessity that they should be relieved, as far as possible, of the task of compiling annual statistics, which, however interesting as statistics, are not put to any practical use. The posting statements of crop and irrigation particulars, in detail of fields, are so voluminous, and the supervising agency is so weak, that the village accountants are under strong temptation to fudge the totals, and the statistics are thus such as no wise person can safely venture to trust. They can never be permanently improved whilst the village accountants are so pressed on all sides by more emergent work.

3. The Board therefore heartily supports the following recommendations :—

(1) That Statistical Returns $A_1$, $A_2$, $A_3$ and $A_4$ should only be required once in ten years, different years being fixed for compiling particulars of (*a*) irrigation, (*b*) crops, and for taking the census of live-stock.

(2) That the demand for annual statistics should be limited to the items indicated in the form attached to the memorandum, and that the date of the submission of these statistics should be 1st February, so that they may be carefully compiled after the accounts prepared for the annual jamabandi are completed.



* 1. Forests.
2. Not available for cultivation.
3. Cultivable waste other than fallow.
4. Current fallows.
5. Net area cropped during the year.

4. In this annual return the total area and the first five * items of $A_2$ can continue to be shown.

The net area cropped can be divided into "irrigated" and "unirrigated."

The statistics prepared for the Public Works Department exhibit particulars of the areas irrigated under each "Irrigation system," and under other Government irrigation works "major" and "minor." The difference between these figures and the total irrigated area will represent the area irrigated by private tanks and wells. There would thus be no difficulty, if desired, in dividing the irrigated area under the following heads :—

(1) Area under large systems for which Capital and Revenue Accounts are kept.
(2) Area under other Government works.
(3) Area under private channels, tanks and wells.

5. In place of $A_3$, and the Provincial crop-return G, the areas under paddy, food-crops, and the chief commercial products † may be shown. Special returns are submitted for tea, coffee and cinchona; but these may be added to the proposed seven items if desired.

† Indigo.
Gingelly.
Cotton.
Castor-oil seeds.
Ground-nuts.
Sugar-cane.
Tobacco.

6. The Board thinks that the return C, showing the incidence of Land Revenue, and D, varieties of tenure, should be decennial. The annual jamabandi report shows the incidence of taxation for the occupied Government area.

7. E, statement of transfers, can be submitted annually, as the particulars are compiled for the jamabandi report, but it is important that time should be allowed up to 1st February for its submission.

(True Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department,
with copy of memorandum.

## APPENDIX.

Memorandum.

*Statistical Returns or Returns of Agricultural Statistics.*

These returns, which were prescribed in the Government of India circulars noted on the margin, are prepared for every ryotwari village and for a large number of whole inam villages also. They are required to be submitted annually before 1st November, for inclusion in the Presidency Administration Report, and for the use of the Government of India by whom they are again republished. When the Proprietary Village Service Act is introduced into zamindari estates, similar returns will, in all probability, have to be prepared for all zamindari villages also.

Government of India Circular No. 19–20, dated 20th July 1891, in B.P., No. 245, dated 28th March 1892, and letter No. 3850–70, dated 31st October 1893, in B.P., No. 475, dated 23rd November 1893.

2. The amount of labour involved in the preparation of these statistics annually is enormous and is, we think, altogether out of proportion to the value of the information afforded. Some idea of the vast labour entailed may be formed from the fact that the abstract returns, which are six in number, have to be prepared for 24,000 ryotwari, and for many of the 4,890 whole inam villages, and then tabulated for each of the 157 taluks into which the Presidency is divided, and finally totalled up for the 21 districts, excluding Madras. The detailed statements from which the abstracts by

villages are prepared contain numerous columns and sub-heads, and, for many of these statements, postings in detail of fields, or of individuals, have to be made, before the village totals can be arrived at. As the village returns have to be compiled and submitted long before the 15th August when the district returns are due to the Board, to enable it to submit its consolidated returns to the Government of India before the 1st November, differences always arise between these returns and those accompanying the annual Land Revenue Settlement, or the Jamabandi Report, which are prepared at a later date, and are submitted to the Local Government by the 1st March following. These differences necessitate endless references from the Board to the District offices and from the latter to the taluk offices, and in many cases, also to the village accountants; and in the end very little practical good is obtained, as the returns must be hurried through and despatched by the 1st November, or as soon after it as possible.

3. In order to reduce the amount of labour entailed, to secure greater accuracy, and to avoid duplication, we are strongly of opinion that the statistical returns should be simplified and assimilated with the Land Revenue Settlement returns, so far at least as the more important features are concerned, and that sufficient time should be afforded, say, till 1st February or 1st March, for the correct preparation of the returns. Some of the returns may also be made quinquennial, and others decennial. The proposed changes are explained below :—

(i) *A*-1—*Total acreage, showing the total area by professional survey, and the variation of this area from the area arrived at from the village papers, after deducting the areas of Feudatory States and other areas for which no returns are available.*—The latter particular relates to zamindari and agency tracts and some whole inam villages in certain districts. In all cases, however, the figures are practically almost unvarying, and it should, we consider, suffice if the return be made decennial, and for the years in which the censuses are taken. The entry of the "area by village papers" appears to be unnecessary in this Presidency. It entails tabulation by villages, and small differences which result involve numerous references for explanation. The item appears to have been added with special reference to Provinces still incompletely surveyed.

(ii) *A*-2—*Classification of the area shown in the village papers.*—Here the first five items, as they stand, could be obtained from compilations now made in every village, taluk and district, for the jamabandi (Land Revenue Settlement) returns, if the latter were very slightly modified. Item 6 shows the area irrigated during the year under works of five classes, whilst item 7 shows the area of crop raised by the aid of irrigation under four sub-heads. The compilations of these particulars both in the villages and in the taluks entail great labour, and it is difficult to see what good purpose is served thereby. It would be easy and simple to show the total area of crop that is irrigated and that is grown independently of any irrigation. For the use of the Public Works Department, particulars of the areas irrigated under what are called the larger "systems," that is, the Gódávari, Kistna, Cauvery, Pennér and other anikats, the Rushikulya and Periyár projects, &c., and under Major and Minor irrigation works maintained by Government are separately compiled; so that the remainder of the total area irrigated must be that watered from private works and from wells. That should suffice for an annual return, whilst, if further particulars are required, they might be compiled quinquennially or decennially.

(iii) *A*-3—*Acreage of crops.*—This is supplemented in this Presidency by a still more detailed statement G, involving the preparation of compilation tables in every taluk and district office, with at least 63 columns, both under ryotwari and inam. There is a corresponding amount of compilation necessary in each village for the field as a unit.

For the information of the mercantile community, reports on the sowings and forecasts of the outturn of—

| | |
|---|---|
| Paddy, | Gingelly, |
| Indigo, | Cotton, |

have to be prepared, and it is thus necessary to compile the figures of area sown with these crops, from month to month, and it would not add much labour to carry on this



work to the end of the year. It is thought that, by adding particulars for a few more crops of commercial importance, such as castors, groundnuts, sugarcane, tobacco and lumping the remainder under (*a*) all other food-grains and pulses, (*b*) other crops, ample annual particulars would be available, and that more detailed particulars, if required, might be compiled quinquennially or decennially from the village records. As in the forecasts all distinction between ryotwar and inam land may be given up.

(iv) *A*-4—*Stock.*—For this, an annual census of the live-stock of every landholder, and stock-owner in every village has to be made, and the work is expected to be checked by the Revenue Inspectors, Tahsildars and Divisional-officers. The preparation and compilation of the return annually involves an enormous amount of labour without any commensurate advantage, whilst the results are far from satisfactory. If made decennially, arrangements for checking the census could be specially made, as is done in the census of population.

4. Our suggestions regarding the above returns, therefore, are—

(1) that the detailed returns should in all cases be quinquennial or decennial only, different years of the decennium being chosen for collecting and compiling the particulars of—

| | |
|---|---|
| (*a*) Irrigation, | (*c*) Live-stock maintained, |
| (*b*) Crops raised, | |

so as to distribute the work and to have the statistics ready for the year of the census.

(2) That a brief annual return based almost entirely on the existing jamabandi returns should be furnished to the Government of India by the 1st of February in each year. A form of return is appended.

5. In regard to the other returns, we add the following remarks:—

*B* is a return of wholesale prices, at present based upon records ordered to be maintained at each taluk. The Board has already in its Proceedings, No. 44 (Revenue Settlement, Land Records and Agriculture) of 1895, recommended a measure for simplifying the work of preparing this, and this has been accepted by the Local Government. Its approval by the Government of India is desirable.

*C* is a return showing the incidence of land revenue and it will be sufficient if this were prepared decennially in the census year. Much of the information can, however, be easily prepared from the jamabandi returns and can be furnished annually, if required.

*D* is a statement of varieties of tenure and is at present quinquennial. It might be made decennial without any loss.

*E* is a statement of transfers made during the year, for which particulars are compiled for the jamabandi returns. If time be allowed up to 1st February for its submission, no separate general compilation in the taluk and district offices would be required, though it would be necessary to provide for the compilation of the small number of transfers affecting inam and zamindari land.

6. We feel sanguine that, if the changes suggested above are sanctioned, immense relief will be afforded to the village and taluk officials, and it would be possible to enforce greater accuracy and punctuality in the preparation of the various statistical returns required by the Local Government and the Government of India, and thus bring the "Land Records" to a thorough state of efficiency.

(Signed) P. RAJARATNA MUDALIAR,
Secretary, Board of Revenue
(R.S., L.R., and Agri.).

( „ ) L. M. WYNCH,
Secretary, Board of Revenue
(Land Revenue).

( „ ) C. BENSON, M.R.A.C.,
Dy. Director of Land Records
and Agriculture.

2nd January 1896.

Enclosure.

| Districts. | 1 | Total area. | 2 | Forest. | 3 | Not available for cultivation. | 4 | Culturable waste other than fallow. | 5 | Total area occupied. | 6 | Current fallows. | 7 | Net area cropped. Irrigated. | 8 | Unirrigated. | 9 | Crops cultivated. Food crops. Paddy. | 10 | All others including pulses. | 11 | Commercial products. Indigo. | 12 | Gingelly. | 13 | Cotton. | 14 | Castor-oil seeds. | 15 | Groundnut. | 16 | Sugarcane. | 17 | Tobacco. | 18 | Others. | 19 | Area cropped more than once. | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Order—No. 206, Revenue, dated 21st May 1896.

Miscellaneous.

The Government agrees with the Board of Revenue and the following letter will be despatched to the Director-General of Statistics to the Government of India.

(True Extract.)

(Signed) A. T. ARUNDELL,
Ag. Secretary to Government.

To the Board of Revenue (Revenue Settlement, Land Records and Agriculture).

———

*Resolution*—Mis. No. 2978, dated 16th June 1896.

Recorded.

(True Copies and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

Copy to Land Revenue Department.
,, Deputy Director, Land Records and Agriculture.

———

Read—again the following Proceedings of the Board of Revenue, (Rev. Sett., L. Rds. and Agri.), Mis. No. 3232, dated 19th May 1898 :—

*Read*—the following G.O., No. 254, Revenue, dated 5th May 1898 :—

*Read*—again G.O., No. 206, Revenue, dated 21st May 1896.

Abstract.—Approving the suggestions of the Board of Revenue for the simplification of returns of agricultural statistics.

———

*Read*—again the following G.O., Mis. No. 3943, Revenue, dated 29th July 1897 :—

Read—the following letter from DENZIL IBBETSON, Esq., C.S.I., Secretary to the Government of India (Department of Revenue and Agriculture—Statistics), to the Chief Secretary to the Government of Madras, dated Simla, the 13th July 1897, No. 1825—1-2 :—

I am directed to communicate the following remarks in reply to your letter No. 207, dated 21st May 1896, with which you forwarded to the Director-General of Statistics, for the orders of the Government of India, a copy of the Proceedings of the Board of Revenue containing suggestions regarding the preparation and submission of the returns of agricultural statistics.

2. The Government of India recognise the fact that the work imposed upon the village (as upon all other Government) establishments is increasing, and fully sympathise with the desire of the Madras Government to reduce it by discontinuing any portion that can properly be held to be unnecessary. They understand, however, that all the particulars from which the tables of agricultural statistics are compiled are, and will continue to be, *recorded* every year in Madras for each survey unit; and that the labour to which exception is taken is that of extracting the figures in the form of totals for embodiment in the tables. The letter under reply mentions the necessity

of posting the details for each separate field. It is perhaps possible that some slight modification of the register in which the details are recorded might remove this necessity. In Northern India the totals are ordinarily extracted and posted for each page or double page only of the register.

3. The general case as regards the tables of agricultural statistics is as follows. They are prepared and submitted to Parliament under the general orders of the Secretary of State for India; and some of them have been framed or altered so as to comply with his special requisitions. Their form has been several times considered by experts from all the provinces in conference, with a view to reduce the labour of compilation to the lowest point compatible with the object in view. It is not yet ten years since they were thus reconsidered. Their value mainly depends upon their being uniform for all provinces; and other provinces have not suggested any alterations; though all doubtless feel the burden of preparing them. At the same time, one of the main objects which the Government of India, acting upon the recommendations of the Famine Commission, endorsed by the Secretary of State, have steadily kept in view in developing and improving the village agency, has been to obtain accurate and complete agricultural statistics regarding the land. These statistics serve a double purpose. They are not only important as informing Government year by year of the condition of the estates from which it draws its land revenue, and as enabling it to gauge the agricultural progress of each tract and village, to decide in what respects its agricultural standard is most deficient, and to detect at once signs of deterioration which may call for relief, but they are also of special value as affording a sound basis for the assessment of the land revenue demand, thus doing away with the necessity for that minute inquisition by a foreign establishment which has been one of the chief evils attendant upon settlement operations. The totals for villages are therefore absolutely necessary; and their extraction is the main part of the labour. Their compilation into totals for districts and provinces is a comparatively small matter. It must be remembered also that the tables are imperial and not merely provincial; and that the omission of details which may be of minor importance in a particular province will destroy the completeness of statistics which may be of the greatest importance for India taken as a whole. Finally, any change in periodical returns is to be avoided unless there are very strong reasons in its favour as it destroys the continuity of the statistical record and renders comparison impossible. A change which affected one province only would be still more objectionable, as the figures must then be either incomplete or heterogeneous.

4. I am now to examine in detail the proposals made in your letter under reply. The references are in all cases to the tables as published for 1893–94 which was the latest issue in the hands of the Madras Government when the letter under reply was written.

*Form A*-3.—Detail of area under various crops.

*Form A*-2.—Fallow; cropped area; areas irrigated from various sources; irrigated areas under classes of crops.

It seems to the Government of India that this information is almost useless unless it is obtained annually. The figures fluctuate so widely from year to year in sympathy with the nature of the season that it would be most unsafe to take every tenth, or even every fifth year as typical. The information is of the first importance for assessment purposes, and, the Government of India would have thought, for general administrative purposes also; and it is necessary that it should be complete. They do not think the list of crops can be reduced with advantage; it was indeed amplified some years ago at the request of the Secretary of State. It seems to them important to distinguish between irrigation from canals, wells and tanks, respectively; and here again, details of irrigation were specially called for by the Secretary of State. The detail of irrigated crops given under head 7 of Table A-2 is perhaps not so essential, while the labour of extracting it must be considerable. But separate details of the cropping of irrigated and unirrigated land, respectively, are of the greatest value in fixing assessment rates; and they would retain the information, which is otherwise interesting and useful. It will be for the Government of Madras to decide whether



they will simplify or abandon the still more elaborate provincial form of Table A-3, and the distinction between raiyatwari and inam land to which the joint note forwarded with your letter refers. The Government of India require neither.

5. *Table A*-1—*Total areas by professional and village surveys.*—The item to which the strongest objection is taken is that headed "area in village papers." It is, however, or should be, simply the total of heads 1 to 5 of Table A-2; so that if these are retained, this total is ready to hand. For the object of the entry I am to refer you to page 2 of the explanatory memorandum prefixed to the returns of agricultural statistics for 1893–94. I am to remark that if, as would appear from the joint note, the Madras Presidency has been "completely surveyed," it is not evident why the figures of heads 4 and 3 are not identical, as they are in Bombay and Sindh.

6. Under the other heads of Table A-1, the fluctuations are inconsiderable, except where, as in Bengal or Burma, survey operations are in progress on a large scale. The Government of India propose therefore to transfer head 4 to Table A-2, giving it either as the first entry under the heading "area for which village returns are available," or merely making it the total of heads 1 to 5; probably the former. This having been done, they think that Table A-1 (which would then consist of the first three heads, and deal with professional survey only) might be made quinquennial; subject to the proviso that whenever survey operations on a considerable scale are in progress, whether in British territory or in feudatory states, in tracts which have not before been surveyed, or not for many years, the alterations in area which the results of the operations may render necessary should be annually embodied in the figures. It is for the Local Government to say whether this change would give any material relief.

7. *Table A*-4—*Live-stock.*—The Government of India agree with much that is said about this table in the joint note. They are inclined to make it quinquennial. It is true that it is of advantage to know the effect of a year of drought or famine upon the live-stock. But they doubt whether the figures have at present much claim to accuracy; and they believe that a quinquennial census would be more likely to be accurate than an annual one, as it would become a special operation instead of a part of the yearly routine. In some provinces the live-stock are counted, for the purposes of the present return, in one-fourth of the villages only each year, so that each return includes partial statistics for four separate years, of which two may precede and the other two follow a year of drought. This must destroy in great part the usefulness of the figures, and a general quinquennial census would clearly be preferable.

8. *Table C—Incidence of land revenue on area and population.*—The Government of India think that this return also may be made quinquennial, though they would not make it decennial. Here again, in some provinces the figures are ascertained with accuracy for a portion only of the villages in each year. But the figures in question change so slowly that there is apparently no objection to the procedure in this case, the figures being annually rectified for, say, one-fifth of the villages; subject however to the proviso that in any year in which a new assessment has been announced in a local area, the figures for the whole of that area must be brought up to date.

9. *Table D—Tenures held from Government.*—The Government of India think that this table might be treated in the same manner as Table C; when settlement operations are concluded in any local area, the figures for that area being brought up to date.

10. If, as suggested above, Tables A-1 and A-4, C and D are made quinquennial, the years for their separate preparation might be fixed as follows with reference to the years of Indian census:—

| | | |
|---|---|---|
| Table C | 1892, | 1897, &c. |
| Do. D | 1893, | 1898, &c. |
| Do. A-4 | 1894, | 1899, &c. |
| Do. A-1 | 1895, | 1900, &c. |

All these tables should however be repeated each year in the general administration report, with a note to show the year in which the figures were last collected.

11. As regards the change of date by which the returns are due to reach the Government of India, there is no objection to the date for Table E being changed to 1st February as proposed in paragraph 7 of the Board's Resolution. But as that date will leave not more than sufficient time for the subsequent examination and compilation of the figures, I am to ask that the strictest punctuality may be observed. The Government of India are not certain whether the Madras Government desire any change in the date for the despatch of the other tables.

12. I am to say that other Local Governments and Administrations will now be consulted regarding the changes suggested in paragraphs 5 to 10 of this letter, and I am to request that the Government of India may be favoured with the opinion of the Madras Government upon them.

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Order—Mis. No. 3943, Revenue, dated 29th July 1897.

Referred to the Board of Revenue for early remarks.

(True Extract.)

(Signed) G. STOKES,
Secretary to Government.

To the Board of Revenue (Revenue Settlement, Land Records and Agriculture).

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*Read*—also the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), Mis. No. 9612, dated 30th November 1897 :—

Read—Proceedings of the Madras Government, Revenue Department, Mis. No. 3943, dated 29th July 1897.

---

Resolution—Mis. No. 9612, dated 30th November 1897.

The Board begs to submit the following reply to G.O., Mis. No. 3943, dated 29th July 1897.

2. The Government of India is willing to make tables $A_4$, C and D, as well as table $A_1$, with the exception of item 4, quinquennial. The Board considers that this may be accepted. It is to be observed, however, that table D is already a quinquennial return in this Presidency—*vide* paragraph 5 of letter from the Government of India, communicated with G.O., Mis. No. 4591, dated 26th August 1891. As regards table $A_1$, the Government of India, in paragraphs 5 and 6 of its letter, observes that item 4, "corresponding area by village papers" is or should be simply the total of heads 1 to 5 of table $A_2$. It therefore proposes to transfer the item to the latter table and enquires whether, with this change, the submission of table $A_1$ quinquennially would give any material relief. The Board begs to state that though, as observed by the Government of India, item 4 of table $A_2$ should agree with the total of heads 1 to 5 of table $A_2$, it is not obtained by merely totalling up those heads but by independent postings in the village and taluk accounts and this course is followed in order to secure a check of the totals obtained under those heads. The change proposed by the Government of India will not therefore afford material relief. It may be noted in this connection that instructions have recently been received from the Director-General of Statistics that totals of heads 1 to 5 should be entered in table $A_2$—*vide* G.O., No. 1159, dated 27th February 1897.

3. With reference to the concluding sentence of paragraph 5 of the Government of India letter, the Board begs to state that the main cause of the difference between the figures entered against items 3 and 4 of table $A_1$ is, as explained in the memorandum referred to by the Government of India, that the area by professional survey, which is furnished by the Superintendent of Survey, represents the area by *traverse survey*, while the area by village papers represents the added total of field areas. The Superintendent has, however, been requested to send a revised statement substituting the total of field areas wherever available, for traverse area. When this is



received, the revised figures will be entered in the statistical table $A_1$, and then it is hoped that the differences between items 3 and 4 of the table will be minimised. They cannot entirely disappear, because whole inam villages in the Presidency are, with a few exceptions, unsurveyed.

4. The Board regrets that the Government of India is unable to sanction the submission of tables $A_2$ and $A_3$ quinquennially. The Government of India remarks in paragraph 2 of its letter, that the necessity of posting the details for each field, required for these tables, may possibly be obviated by some modification of the village registers, and that in Northern India, the totals are ordinarily extracted and posted for each page or double page only of the register. The Board begs to state that, even in this Presidency, totals are made for each page of the Adangal (village account No. 2)—*vide* form of posting statement given at page 17 of Board's Proceedings, No. 131, dated 10th March 1894 ; but, that in making out the totals for each page, separate postings have to be made, in detail of fields, for each different crop and item, of information specified in the tables. With so many different items, it appears impracticable to provide a separate column for each in the village accounts so as to facilitate totalling ; but the point will be considered in connection with the revision of the "Village Manual."

5. Referring to the latter part of paragraph 4 of the Government of India letter, the Board begs to state that Government has already sanctioned the discontinuance of the Provincial return G—*vide* paragraph 7 of G.O., No. 516, Revenue, dated 8th October 1896.

6. In paragraph 8 of its letter, the Government of India, while suggesting that table C may be made quinquennial, observes that in some provinces the figures are ascertained with accuracy for a portion only of the villages in each year and that there is no objection to this procedure, the figures being annually rectified for, say, one-fifth of the villages. This plan would save no labour in this Presidency, as the main portion of the table, *i.e.*, from column 4 onwards, is filled in from statements prescribed and prepared annually for the Jamabandi report, and from the census tables.

7. In paragraph 11 of the letter, the Government of India states that table E may be submitted by 1st February as proposed by the Board and adds that it is not certain whether the Government of Madras desires any change in the date for the despatch of the other tables. As stated in paragraphs 2 and 3 of the joint note submitted with Board's Proceedings, No. 20, dated 4th February 1896, the returns of agricultural statistics and the statements, connected with the annual settlement of land revenue have to be prepared from the same sources ; but, while the latter are due in the Board's office only on the 1st October and to Government on the 1st March, the former have to be submitted to the Director-General of Statistics by the 1st November and are therefore due to the Board by the middle of August. This hardly leaves sufficient time in the districts, for the correct preparation of these returns, as they relate to the year ending 30th June ; and the result is that numerous discrepancies are noticed and frequent references to Collectors are necessitated. The Board would therefore suggest that the date fixed for the submission of the returns of agricultural statistics be changed from 1st November to 1st February.

There is, however, one difficulty in making this change, and that is, that all these returns are published in the General Administration Report of the Presidency and are therefore required to be submitted to Government in the Public Department by the 1st November. This difficulty can be overcome, if, for the purposes of the Presidency Administration Report, the figures of the preceding year (fasli), or quinquennium as the case may be are considered sufficient. In the case of the administration of land revenue, of which a summary appears in Part I of the Presidency Administration Report, the information given in the report relates to the preceding fasli year.

(True Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

To the Secretary to Government, Revenue Department.

*Order*—No. 254, Revenue, dated 5th May 1898.

Miscellaneous.

The Government sees no objection to the proposal of the Government of India to make tables $A_1$ (with the exception of item 4) $A_4$, C and D quinquennial. As regards item 4 of table $A_1$ the Government considers that it would best appear as the total of items 1 to 5 of table $A_2$. In the case of table C, it will be pointed out to the Government of India that no relief will be given by making table C quinquennial and, at the same time, requiring that the figures for one-fifth of the villages should be annually rectified; and in the case of table D, it will be pointed out that this return is already quinquennial in this Presidency and that no annual revision of the figures for any portion of the villages is required.

2. The decision of the Government of India to retain tables $A_2$ and $A_3$ as annual returns will be accepted, it being understood that item 7 of table $A_2$, giving the details of the crops irrigated is to be omitted. The Government notes that the Board will consider the question of revising the form of the Adangal (village statement No. 2) so as to facilitate the extraction of the particulars required by tables $A_2$ and $A_3$; an additional column or two for the separate exhibition of the more important items would probably not add materially to the present length of the account.

3. The years proposed by the Government of India for the separate preparation of the several tables seem suitable.

4. As to the date by which these returns should be forwarded to the Director-General of Statistics, the Government agrees with the Board that the 1st of February would be suitable.

5. The Government of India will be informed of the views of His Excellency in Council and the following letter will accordingly be addressed to that Government.

(True Extract.)

(Signed) G. S. FORBES,
Ag. Secretary to Government.

To the Board of Revenue (Revenue Settlement).

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*Resolution*—Mis. No. 3232, dated 19th May 1898.

Recorded.

(True Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

To the Deputy Director of Land Records and Agriculture.

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Read—again the following Proceedings of the Board of Revenue (Rev. Sett., L. Rds. and Agri.), Mis. No. 5477, dated 10th September 1898: —

*Read*—the following G.O., No. 496, Revenue, dated 29th August 1898: —

Read—the following letter from T. W. HOLDERNESS, Esq., I.C.S., c.s.i., Secretary to the Government of India, Revenue and Agricultural Department (General), to the Secretary to the Government of Madras, dated Simla, the 8th August 1898, Circular No. 14—177-1:—

In the Circular from this Department, No. 15—1-3, dated the 13th July 1897, the opinions of Local Governments and Administrations were invited on certain suggestions regarding the preparation and submission of the returns of Agricultural Statistics.



2. The Government of India having carefully considered the opinions and wishes of Local Governments expressed in the replies received, have decided to abandon the proposal to transfer head 4 (Area by professional survey) of Table A-1 (Total area) to table A-2 (Classification of area). The present form will therefore be adhered to.

3. As regards Tables A-4, C and D, the Government of India leave it to Local Governments and Administrations to prepare their tables annually or quinquennially as suits them best. All that is necessary is the insertion of a note to the tables or in the explanatory memorandum which accompany them, explaining the period to which the figures relate.

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Read—also the following letter from T. W. HOLDERNESS, Esq., I.C.S., c.s.i., Secretary to the Government of India, Revenue and Agricultural Department (General), to the Secretary to the Government of Madras, dated Simla, the 8th August 1898, No. 2116—177-2:—

I am directed to refer to your letter, No. 255, Revenue, dated the 5th May 1898, in which you stated the views of the Governor in Council on the proposals for the simplification of agricultural statistics contained in Mr. Ibbetson's letter, No. 1825—1-2, dated the 13th July 1897.

2. As regards tables A-1 (Total acreage), A-4 (Stock, &c.), C (Incidence of Revenue) and D (Varieties of tenure), I am to refer the Government of Madras to the instructions contained in this Department's Circular No. 14—177-1 of to-day's date, which have been framed after due consideration of the views expressed by all Local Governments and Administrations who were consulted in the matter.

3. With reference to paragraph 4 of your letter, I am to say that head 7 (crops irrigated) of table A-2 (Classification of area) may, as is understood by the Government of Madras, be omitted, the "Total area irrigated" given under head 6 of the same table being sufficient.

4. With reference to paragraph 8 of your letter, I am to point out that the Madras returns are compiled for the year ending the 31st of March, whilst the date fixed for their submission to the Government of India is the 1st of November. The period available for compilation and checking amounts therefore to seven months which compares very favourably with the time allowed to other Local Governments. Under the circumstances, the Government of India consider that no sufficient reason has been shown for altering the date of submission, and I am to request that all tables, with the exception of table E, may be despatched so as to reach the Government of India by the date hitherto prescribed.

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Order—No. 496, Revenue, dated 29th August 1898.

Miscellaneous.

Communicated to the Board of Revenue for information and guidance.

(True Extract.)

(Signed) F. J. WILSON,
*for* Secretary to Government.

To the Board of Revenue (Revenue Settlement, Land Records and Agriculture).

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*Resolution*—Mis. No. 5477, dated 10th September 1898.

Recorded pending receipt of orders of Government on B.P., No. 293, dated 9th August 1898.

2. With reference to paragraph 2 of the Government of India's letter, No. 2116—177-2, dated 8th August 1898, the Board begs to point out that in paragraph 2 of the circular referred to therein, no reference has been made to the submission of return $A_1$, and that it is therefore presumed that the return ($A_1$) should be prepared and submitted annually.

3. Sub-head 4 of Table $A_1$, is described in paragraph 2 of the circular as "area by professional survey," but it should be "area by village papers."

4. As regards the Government of India's remark in paragraph 4 of its letter referred to above, viz., that the Madras returns are compiled for the year ending 31st March, the Board begs to point out that this is a mistake as the returns are compiled for the agricultural year ending 30th June before which date the village accounts cannot be closed.

In these circumstances, it is only with great exertion that Collectors can forward them so as to reach the Board by the 15th August, and the period does not allow of their being properly compared with the jamabandi returns for the same year, which are not due until 1st October. It is therefore evident that the period of two months and a half allowed up to 1st November for the examination and compilation of the Presidency returns in the Board's office is insufficient, and in this connection, the Board begs to draw attention to the general notes under Table A given in the explanatory memorandum, page iii, prefixed to the returns of agricultural statistics by Government of India (Thirteenth Issue), to paragraph 2 of the memorandum submitted with B.P., No. 20, dated 4th February 1896, and to paragraph 7 of B.P., Mis. No. 9612, dated 30th November 1897, printed in G.O., No. 254, Revenue, dated 5th May 1898.

5. Meanwhile, pending the issue of final orders, the Deputy Director of Land Records will be directed to consider what modifications in his proposals for preparing the village accounts are rendered possible by changes sanctioned by the Government of India.

(True Copy and Extract.)

(Signed) C. BENSON,
*for* Secretary.

To the Secretary to Government, Revenue Department.

Copy to the Deputy Director of Land Records and Agriculture.

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Read—again the following Proceedings of the Board of Revenue (Rev. Sett., L. Rds. and Agri.), Mis. No. 7112, dated 9th December 1898 :—

*Read*—the following G.O., Mis. No. 4499, Revenue, dated 18th November 1898 :—

Read—Proceedings of the Board of Revenue (Rev. Sett., L. Rds. and Agri.), Mis. No. 5477, dated 10th September 1898.

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Order—Mis. No. 4499, Revenue, dated 18th November 1898.

The presumption expressed in paragraph 2 of the Proceedings of the Board as to the annual preparation of table A-1 is correct.

2. The following letter will be despatched to the Government of India on the subject of fixing the date of submission of these returns at the 31st December instead of the 1st November.

(True Extract.)

(Signed) G. S. FORBES,
Secretary to Government.

To the Board of Revenue (Revenue Settlement).



*Resolution*—Mis. No. 7112, dated 9th December 1898.

Recorded, pending receipt of orders of the Government of India.

(True Copy and Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

To the Deputy Director of Land Records and Agriculture.

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Read—again the following Proceedings of the Board of Revenue (Rev. Sett., L. Rds. and Agri.), Mis. No. 7323, dated 28th December 1898 :—

*Read*—the following G.O., No. 786, Revenue, dated 17th December 1898 :—

Read—again G.O., Mis. No. 4499, Revenue, dated 18th November 1898.

Read—also the following letter from the Government of India, Revenue and Agricultural Department, No. 3402-177-4, dated 13th December 1898 :—

In reply to your letter No. 4500, dated 18th November 1898, I am directed to say that, under the circumstances explained, the Government of India agree to the 31st of December being fixed as the date for the submission of the returns of agricultural statistics for the Madras Presidency, and to express a hope that that date will be strictly adhered to.

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Order—No. 786, Revenue, dated 17th December 1898.

Communicated to the Board of Revenue.

(True Extract.)

(Signed) G. S. FORBES,
Secretary to Government.

To the Board of Revenue (Revenue Settlement).

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*Resolution*—Mis. No. 7323, dated 28th December 1898.

Recorded.

(True Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

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Read—also the following G.O., Nos. 47, 47A, Revenue, dated 18th January 1899: —

*Read*—the following Proceedings of the Board of Revenue (Rev. Sett., L. Rds. and Agri.), No. 293, dated 9th August 1898 : —

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(Full Board.)

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Resolution—No. 293, dated 9th August 1898.

In continuation of its proposals for the simplification of the returns of Agricultural Statistics, which met with the approval of Government in G.O., No. 206, Revenue, dated 21st May 1896, the Board begs to recommend for favourable consideration a

proposal that (1) the Statement of Irrigation sources in and out of repair, No. 25, and (2) the Statement of Rent-roll, No. 26, which are at present prepared by the Collectors annually and submitted by the Board along with the jamabandi report, may be made quinquennial, and that the quinquennial Return G, showing the statistics of the area irrigated under Government or private sources of irrigation and of the revenue dependent thereon, may be abolished. The amount of labour involved in the preparation of these returns is very great, and, if the Board's proposal be accepted, it will afford a welcome relief to all village officers and to all Taluk establishments, without, in the Board's opinion, any detriment to administrative requirements.

2. The Irrigation statement showing the number of different sources of irrigation in and out of repair, classified according to the areas they irrigate, was originally ordered to be submitted once in five years, in Circular Order, dated 13th June 1853, when the forms accompanying settlement (jamabandi) reports were revised by the Board. When the revised Manual of Village and Taluk Accounts, approved in G.O., No. 517, Revenue, dated 24th June 1886, was introduced, this return was made annual, but no reason for the change was recorded. The return is based on Village Account No. 22, from which Taluk Account No. 28 is prepared. The latter is abstracted in Taluk form No. 53 for submission to the Board and Government. The changes that may occur in the number of irrigation sources of different classes from year to year cannot be great, except as regards wells. Nor are they so many as to compensate for the heavy labour involved in the preparation of these returns annually; on the other hand, a great deal of labour in posting the village returns would be saved, if the plan of preparing the returns quinquennially is reverted to, whilst greater care in the preparation could be enforced.

3. The Rent-roll statement was orginally an annual return, prescribed in Board's Circular, dated 2nd July 1849, but it was ordered to be submitted once in five years when the forms were revised in 1853, as stated above. This was also made an annual return, when the revised Manuals of Village and Taluk Accounts were introduced in 1887. The return is based on Village Account No. 23, from which Taluk No. 29 is prepared and abstracted in form No. 54 for the submission of the annual return. The object of prescribing this as an annual return is not apparent, as the changes from year to year are trifling and the submission of the information quinquennially, as was done formerly, will bring out changes more clearly. The statement may, however, be improved by showing the area as well as the assessment on holdings under each class. In most countries holdings are classified by their area—not by rental—and it would bring the statistics of this Presidency more into the general line if classification by area were adopted from or after the next census year (1901).

4. If these recommendations are approved by Government, the years in which these returns should be prepared should be so fixed as to distribute the work of compilation as much as possible on the plan accepted, in part, by the Government of India in the case of Agricultural Statistics—*vide* G.O., No. 254, Revenue, dated 5th May 1898. On a full consideration of the distribution proposed by the Government of India for the returns of Agricultural Statistics, the Board suggests the following for the submission of the returns which it is now proposed to make quinquennial :—

| | | |
|---|---|---|
| 1898–99 | ... ... ... ... | Incidence (C), |
| 1899–1900 | ... ... ... ... | Live-stock ($A_4$), |
| 1900–1901 | ... ... ... ... | Total areas ($A_1$), |
| 1901–1902 | ... ... ... ... | Tenures (D and No. 26), |
| 1902–1903 | ... ... ... ... | Irrigation works (No. 25), |

and so on for every five years in future.

It is proposed that Agricultural Return D and Rent-roll statement No. 26 should be submitted in the same year, as they both relate to tenures, and it is especially advisable to secure the submission of these returns in or near the census year. Statistical Return $A_1$ of total areas should also be prepared for another year close to the census. This has necessitated a slight modification of the Government of India suggestions.



5. The statement (G) of Statistics of Irrigation, which the Board proposes to abolish, was prescribed in G.O., No. 1306, dated 14th August 1878, and was ordered to be submitted decennially as part of the census. In a subsequent order, G.O., No. 1836, dated 6th September 1879, Government directed its submission quinquennially, in lieu of one proposed in that year in connection with the irrigation accounts required for purposes of the Public Works Department—*vide* G.O., No. 118, dated 17th January 1879. Again in G.O., No. 722, dated 25th July 1887, when the Government of India had represented that its submission was unnecessary, Government ordered it to be continued on the ground that it showed the "revenue derived from" the different sources of irrigation, and that it should be submitted annually. On a representation made by the Board, however, it was again made quinquennial—*vide* G.O., No. 968, dated 4th October 1887. This is a most elaborate statement containing 277 columns (omitting those in which there are *nil* entries) as will be seen from statement No. 25-B appended to the Board's jamabandi report for fasli 1306—Board's Proceedings, No. 260, dated 20th July 1898—and it does not show the revenue derived from the sources the irrigation under which it purports to show.

6. The preparation of this return entails great labour on the Village officers and the Taluk and District establishments. The irrigation accounts, prepared and furnished to the Chief Engineer annually for each class of irrigation works, show the revenue derived therefrom and, except under such works as have been provided with water-rate karnams for zamin areas, the figures given in Return G for such areas can at present only be the wildest guesses. No useful purpose is, the Board believes, served by this quinquennial statement, in which particulars for each class of work, under Government and private sources, are separately given for Government, inam and zamindari areas. The areas irrigated are to be found, so far as records allow, in Statistical Return A-2, where the area irrigated from wells is shown as well as that from other sources. No revenue is derived from wells, and as soon as the rules framed under the Proprietary Estates Village Service Act have been brought fully into action in zamindari estates, correct information regarding the area irrigated in zamindaris can also be obtained and embodied in A-2 statement. Little or no reliance can be placed upon the figures given in Return G for reasons that are obvious. The return is neither required by the Secretary of State nor the Government of India and has been superseded by other returns, and the Board therefore urges that it may be abolished.

(True Extract.)

(Signed) C. BENSON,
Dy. Dir., L. Rds. and Agri.

To the Secretary to Government, Revenue Department.

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*Order*—No. 47, Revenue, dated 18th January 1899.

Miscellaneous.

In the Proceedings read above, the Board of Revenue proposes, with reference to the returns of Agricultural Statistics, that the statement of Irrigation sources in and out of repair, No. 25, and the statement of Rent-roll, No. 26, both of which are now submitted annually with the jamabandi report, be made quinquennial, and that the quinquennial Return G showing the statistics of the areas irrigated under, and the revenue dependent on, the several sources of irrigation, Government or private, be abolished. These proposals are approved.

Statement No. 25A, appended to the jamabandi report, which is prepared from the same returns as statement No. 25, will also be made quinquennial. The proposal to improve statement No. 26 by showing the area as well as the assessment on holdings is also approved.

2. With reference to the proposal of the Board of Revenue in paragraph 4 of its Proceedings as regards the years in which the quinquennial returns of Agricultural Statistics should be submitted, it is observed that these returns have to be with the Government of India by the 31st December of the year in which they are submitted. The Government understands the Board to propose that—

| Return | Should be prepared from the accounts of | | and submitted to the Government of India by |
|---|---|---|---|
| C (Incidence) ... ... | Faslis 1898–99, | 1903–4, &c. ... | 31st Dec. 1899, 1904, &c. |
| $A_4$ (Live-stock) ... | ,, 1899–1900, | 1904–5, &c. ... | 31st ,, 1900, 1905, &c. |
| $A_1$ (Total areas) ... | ,, 1900–1, | 1905–6, &c. ... | 31st ,, 1901, 1906, &c. |
| D and 26 (Tenures) ... | ,, 1901–2, | 1906–7, &c. ... | 31st ,, 1902, 1907, &c. |
| No. 25 (Irrigation works). | ,, 1902–3, | 1907–8, &c. ... | 31st ,, 1903, 1908, &c. |

The proposal is accepted.

(True Extract.)

(Signed) G. S. FORBES,
Secretary to Government.

To the Board of Revenue (Revenue Settlement, Land Records and Agriculture).

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Endorsement No. 47 A.

Copy to the Government of India, Revenue and Agricultural Department.

(Signed) N. E. MARJORIBANKS,
Ag. Under Secretary to Government.

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Resolution—No. 106, dated 14th April 1899.

The papers read above containing the orders of the Government of India and of the Local Government regarding certain of the agricultural statistical returns and of jamabandi statements No. 25 (Irrigation), No. 26 (Rent-roll), and quinquennial G (Irrigation) will be communicated to all Collectors for information and guidance.

2. Taking the returns of agricultural statistics, no change is made in the preparation of $A_1$, $A_2$, $A_3$ (Collr.'s G) and E except that item 7 of $A_2$ should be omitted. Returns $A_4$ and C have been made quinquennial, D being already quinquennial.

3. The omission of the particulars against item 7 of $A_2$ leads to the removal of columns 17—21 of the statement prescribed at page 17 of B.P., No. 131, dated 10th March 1894, and of the second part, columns 5 and 6, of Village Account No. 2 D and of the corresponding columns in Taluk No. 8 A prescribed in B.P., No. 246, dated 18th June 1894, and columns 19—24 of Taluk No. 31.

4. Statistical return $A_4$ having been made quinquennial, the census of live stock, Village Account No. 21, section II, will only be made once in five years, and neither this return nor columns 9—22 of Taluk No. 32 need be compiled, except in the years selected for this enumeration. This, of course, carries with it the direction to make the corresponding entry in section VI of the village statistical register in these years only.

5. Statistical return D being also quinquennial, Village Account No. 21, section I, will only be prepared for the years in which the return is required, and in these years only is it necessary to compile columns 2—8 of Taluk No. 32. Further instructions for the preparation of this return in conjunction with Village Account No. 23 and Taluk Nos. 29 and 54 will issue hereafter.



6. Collectors are requested to issue clear and definite instructions to their taluk and village officers that the above returns and Statistical Return C should be prepared for the following years only :—

| | | | |
|---|---|---|---|
| $A_4$ Return of live and dead stock ... | October | 1899, | 1904, 1909, &c. |
| C. Incidence of revenue ... ... | Fasli | 1308, | 1313, 1318, &c. |
| D. Tenures ... ... ... | Fasli | 1310, | 1315, 1320, &c. |

7. As the date for the submission of the Board's consolidated returns of agricultural statistics has been extended from 1st November to 31st December, a similar concession will be granted to Collectors who should submit their statements punctually on the 1st October, the date on which the jamabandi statements are due to the Board. This extension of time will afford sufficient time for extracting, as far as possible, the figures required for the statistical returns from the jamabandi statements. Collectors are therefore requested to see that in future the figures given in these two sets of returns agree and where they differ to explain such variations fully. Statement H should, however, be submitted before the 15th July as directed in B.P., No. 446, dated 7th December 1898.

8. In regard to the enumeration of live and dead stock, the attention of all officers concerned should be drawn to the instructions issued in the proceedings quoted on the margin and to the necessity for making this as complete and accurate as possible. The enumeration should be made by the village officers jointly in October and the detailed statements be forwarded to the Revenue Inspectors by the end of that month. These officers, as well as Tahsildars and Divisional officers, should, when they visit the villages, take the opportunity of checking and correcting the enumeration. In lieu of Village Account No. 21, section II, as printed in the manual, the form adopted in section VI of the Village Statistical Register should be followed with the change that in column 1 the names of the persons, whether pattadar, inamdar, or others owning any live or dead stock, should be noted. The taluk posting statement Taluk No. 32, and the abstract $A_4$ should be similarly modified.

B.P., No. 476, dated 30th November 1887.
,, ,, 367, ,, 31st July 1888.

9. The returns above mentioned should be submitted to the Board as follows :—

| Returns | Should be prepared from the accounts of fasli. | Should be submitted to the Board. |
|---|---|---|
| C (Incidence) ... ... | 1308, 1313, 1318, &c. | 1st October 1899, 1904, &c. |
| $A_4$ (Agricultural stock) ... | 1309, 1314, 1319, &c. | ,, ,, 1900, 1905, &c. |
| D (Tenure) ... ... | 1310, 1315, 1320, &c. | ,, ,, 1901, 1906, &c. |

Return D should be prepared in conjunction with, and as far as possible extracted from, the jamabandi rent-roll statement No. 26 alluded to below.

10. As regards the jamabandi statements, Collectors will understand that the quinquennial statement G (Irrigation), referred to in B.P., No. 408, dated 28th October 1887, is abolished and that statements No. 25 (Irrigation sources) and No. 26 (Rent-roll) have been made quinquennial.

11. In the absence of definite orders from Government on the suggestion made in the last sentence of paragraph 3 of B.P., No. 293, dated 9th August 1898, viz., that holdings in the rent-roll statement should be classified according to the area and not according to the rental, the Board is in doubt whether any change should be made, but it is proposed that the village statement should in future be drawn up in the following form in which petty holdings on which the assessment is one rupee and less should be separately entered. It is also proposed that the classification should follow the assessment only (column 7 of Village Account No. 12), as this will be the simplest course for the karnams to adopt and will convey all essential information regarding the economic aspect of ryotwari holdings.

Rec. 288



Village, Taluk, fasli 13

*Rent Roll.*

| Classification of holdings. | Single pattas. | | | | Joint pattas. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Number of pattas. | Extent of holdings | | Assessment | Number of pattas. | Number of share-holders. | Extent of holdings | | Assessment |
| | | Dry. | Wet. | | | | Dry. | Wet. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | ACS. | ACS. | RS. A. | | | ACS. | ACS. | RS. A. |
| Rupee 1 and less .. .. | | | | | | | | | |
| Rs. 10 and less but over Re. 1. | | | | | | | | | |
| Rs. 30 and less but over Rs. 10. | | | | | | | | | |
| Rs. 50 and less but over Rs. 30. | | | | | | | | | |
| Rs. 100 and less but over Rs. 50. | | | | | | | | | |
| Rs. 250 and less but over Rs. 100. | | | | | | | | | |
| Rs. 500 and less but over Rs. 250. | | | | | | | | | |
| Rs. 1,000 and less but over Rs. 500. | | | | | | | | | |
| Over Rs. 1,000 .. . | | | | | | | | | |
| Total .. | | | | | | | | | |

If this is approved, the taluk forms Nos. 29 and 54 and section VII of the village statistical register will be revised accordingly.

12. With reference to paragraph 2 of G.O., No. 47, dated 18th January 1899, the Board begs to state that, subsequent to the issue of B.P., No. 293, dated 9th August 1898, it has been ordered that return $A_1$ should be annual—*vide* G.O., Mis. No. 4499, dated 18th November 1898. In consequence, $A_1$ should be expunged from the list of quinquennial returns under reference. The Board further begs to state that, in the proceedings referred to above, the years in which the several quinquennial statements should be prepared, were proposed without reference to the dates of their submission. Of these returns, two, viz., No. 25 (Irrigation sources) and No. 26 (Rent-roll) are jamabandi statements printed and submitted to the Local Government along with the jamabandi report on the 1st March, whereas the other three are returns of agricultural statistics which have been recently ordered to be submitted to the Director-General of Statistics on 31st December—*vide* G.O., No. 786, dated 17th December 1898. The table should therefore stand as follows:—

| Returns. | Should be prepared from the accounts of fasli. | And submitted by. | |
|---|---|---|---|
| C (Incidence) .. .. | 1308, 1313, 1318 | 31st December 1899, 1904, &c. | The Director-General of Statistics. |
| $A_4$ (Agricultural stock) .. | 1309, 1314, 1319 | ,, ,, 1900, 1905, &c. | |
| D (Tenure) .. .. .. | 1310, 1315, 1320 | ,, ,, 1901, 1906, &c. | |
| 26 (Rent-roll) .. .. | | 1st March 1902, 1907, &c. | Government (Revenue Department). |
| 25 (Irrigation) .. .. | 1311, 1316, 1321 | ,, ,, 1903, 1908, &c. | |

(True Copy and Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

(True Copy.)

(Signed) P. GOVINDA MENON,
First Assistant.

To all Collectors (Divisional-officers and Tahsildars).
,, the Secretary to Government, Revenue Department.
,, the Deputy Director, Land Records.

Copy to Land Revenue Department.
,, to the Chief Secretary to Government, Public Department.

Exd. W. D'Moss.

urgent

Mrs

Please say if the Bd Proceedings no 106 of 14-4-99 what forms are enclosures to the Bd Proceedings to record at the head of the Proceedings is also intended to be printed

No 23/5/99

Secy 23/5/99