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[Despatch Abstract.]

COLLEGE OF AGRICULTURE, SAIDAPET.

Recording, with remarks, the review by the Director of Public Instruction of the report on the working of the -- during 1894-95.

BACK PAPERS.

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

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
C	1495		(no year marked)				

Govt. of {1895} Madras.

EDUCATIONAL.

Issued

Recd. *Encl.*

G.O., No. 834, 19th October 1895.

OCTOBER.

College of Agriculture, Saidapet.

Recording, with remarks, the review by the Director of Public Instruction of the report on the working of the — during 1894–95.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following paper :—

From the Hon'ble Mr. D. DUNCAN, M.A., D.Sc., Director of Public Instruction, to the Chief Secretary to Government, dated Madras, 17th September 1895, No. 10219.

I have the honour to submit, for the information of Government, a copy of my Proceedings reviewing the report on the working of the College of Agriculture during the session 1894–95.

Enclosures.

No. 10147.

Proceedings of the Director of Public Instruction, dated 14th September 1895.

College of Agriculture, Saidapet, 1894-95.

Read the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 19th June 1895, No. 169 :—

Read the following letter from W. KEESS, Esq., M.A., M.R.A.C., Acting Principal, Madras College of Agriculture, to the Director of Public Instruction, dated Saidapet, 4th May 1895, No. 353 :—

I have the honour to submit the report of the College of Agriculture for the session 1894–95 (4th July 1894 to 4th May 1895).

2. The session under report is noticeable in that shortly before it opened Government conferred valuable privileges on the possession of the diploma in Agriculture and also passed orders on the curriculum and future working of the college. Hereafter matriculate students of this institution, who possess the diploma in Agriculture, can appear for the Revenue Test, Higher Grade, and the Criminal Judicial Tests, Lower and Higher Grades. The notification, which contained the bestowal of this recognition on the diploma, appeared in the *Fort St. George Gazette*, on the 29th May 1894, that is, about five weeks before the session commenced ; while the orders on the curriculum and future working of the college (G.O., No. 460, dated 22nd June 1894, Educational), reached me on 20th July 1894, that is, about a fortnight after the college had re-opened. The recruitment of the new class was not therefore stimulated to any perceptible extent, but several students, who had spent three years at the college, rejoined the senior class with a view to completing the tests for the diploma. For six sessions previous to the one under report the college had worked with its diploma unrecognised and with a feeling of suspense hanging over it. It is a matter for sincere congratulation that this state of affairs has at last come to an end.

3. There was only one change in the *personnel* of the staff. As this occurred at the commencement of the session, it caused no inconvenience. On 1st July 1894 M.R.Ry. C. Krishna Menon, Fourth Assistant, availed himself of a year's leave without allowances and M.R.Ry. R. Ramaswami Aiyar, Agricultural Inspector, was appointed to act for him.

4. The annexed statement shows that there were six more students on the rolls on the 31st March 1895 than on the corresponding date in the previous year. The increase [illegible] been explained in paragraph 2. On the 1st September 1894 student Iyappa (Coorg) of class I was accidentally drowned in the river Adyar while bathing. During the session, two students withdrew, one because he could not be suitably accommodated at Saidapet and the other because his father died and he was required to look after the family property :—

—	Class I.		Class II.		Class III.		Total.	
	31st March 1894.	31st March 1895.	31st March 1894.	31st March 1895.	31st March 1894.	31st March 1895.	31st March 1894.	31st March 1895.
Europeans and Eurasians ..	..	..	1	..	..	1	1	1
Native Christians	..	..	1	..	..	1	1	1
Muhammadans	1	..	..	1	..	..	1	1
Brahmans	10	7	11	9	10	16	31	32
Non-Brahman caste Hindus.	3	8	2	2	2	2	7	12
Total ..	14	*15	15	12	12	20	41	*47

* Excludes the student who was allowed to attend as a casual student (Proceedings, No. 3471, dated 22nd March 1895).

5. As directed in paragraph 2 of Proceedings, No. 6450, dated 31st August 1888, a statement showing the distribution of students according to the districts from which they come is annexed. It will be observed that 14 out of the 47 students come from territories outside the Madras Presidency.

Districts.	Class I.	Class II.	Class III.	Total.
Vizagapatam	..	1	..	1
Gódávari	1	..	..	1
Nellore	..	1	..	1
Cuddapah	1	..	..	1
Anantapur	..	..	1	1
North Arcot	..	..	1	1
Chingleput	1	..	..	1
South Arcot	2	..	..	2
Tanjore	1	2	2	5
Trichinopoly	1	..	..	1
Pudukkóttai	..	..	1	1
Madura	2	1	..	3
Tinnevelly	1	1	3	5
Salem	..	1	2	3
Coimbatore	1	1	2	4
Malabar	1	..	1	2
South Canara	..	1	..	1
Mysore	..	2	6	8
Coorg	2	1	..	3
Kathiawar	1	..	..	1
Goa	..	..	1	1
Total ..	15	12	20	47

6. Of the seven district scholarships in class I, five are filled by Collectors' nominees. The annexed table gives particulars :—

Names of students.	Districts.	Nominated by	Sections of the population.	Educational qualification.
1. S. Krishnasawmi Dikshadar ..	South Arcot ..	Collectors ..	Brahman	F.A.
2. G. Subbarayadu	Gódávari		Do.	Matriculation.
3. S. Ramachendra Chari	Cuddapah		Do.	Do.
4. Rajah Hari Haraputhra Pillai	Trichinopoly ..		Non-Brahman ..	Do.
5. C. V. Rajagopalachari ..	Anantapur		Brahman	F.A.
6. G. R. Chengalvaraya Mudali ..	Ganjám	Principal ..	Non-Brahman ..	Matriculation.
7. A. Seetharama Aiyar	Nilgiris		Brahman	Do.

7. The work of the college was conducted more or less on the same lines as during the two previous sessions with the exception that Surveying and Levelling in the first year and Agricultural Engineering in the second year were not introductory to the lectures in these subjects during the second and third year, respectively, but formed part of the regular instruction in the prescribed syllabuses. A certain amount of experience has now been gained in the working of the college curriculum, and I don't think the present arrangements are capable of much improvement. In my last report I gave my reasons for doing the various subjects in the order stated. The reasons hold good for the session under report. The order in which the different subjects were arranged is given below :—

First year.

Agriculture, Advanced, Part I (portion).
Inorganic Chemistry, Intermediate (portion).
Botany, Intermediate, Special (whole).
Physiography, Intermediate (whole).
Surveying and Levelling, Intermediate (portion).
Veterinary Science, Intermediate, Stage I (introductory to second year's work).

Second year.

Agriculture, Advanced, Part I (continued).
Do. do. Part II (portion).
Veterinary Science, Intermediate, Stage I (whole).
Inorganic Chemistry, Intermediate (completed).
Organic Chemistry, Intermediate (whole).
Surveying and Levelling, Intermediate (whole).
Agricultural Engineering, Intermediate (portion).

Third year.

Agriculture, Advanced, Part I (completed).
Do. do. Part II (completed).
Veterinary Science, Intermediate, Stage II (whole).
Agricultural Engineering, Intermediate (whole).

8. The following statement gives the number of lectures and of hours devoted to practical instruction during the session. The figures given do not include the time devoted to plot cultivation, excursions, quantitative analysis, &c. The statement is apt to convey a wrong impression of the work of the college, for an hour's lecture and an hour devoted to plan drawing are placed on exactly the same footing. In my last report I made the following remark :— "As experience has shown that different classes of men, doing the same subject under the same instructor, work at different speeds, a comparison between the figures of the session under report with those of previous sessions would serve no useful purpose." The remark holds good for the session now under report.

Subject.	Lectures.	Hours of practical instruction.	Remarks.
Class I.			
Agriculture, Advanced, Part I	60	101	
Botany, Intermediate, Special	107	74	Class usually taken in two batches.
Inorganic Chemistry, Intermediate ..	63	33	
Physiography, Intermediate	129	..	Some of the lectures were in reality practical classes. A few special classes were also held.
Veterinary Science, Intermediate, Stage I ..	59	..	Introductory to second year's work.
Surveying and Levelling, Intermediate ..	..	83	Excludes two half-days spent in the field.
Museum classes	..	26	
Class II.			
Agriculture, Advanced, Part I	61	38	Excludes plot cultivation.
Do. do. Part II	27	..	
Veterinary Science, Intermediate, Stage I ..	100	61	Twenty-eight of the lectures by the Superintendent, Civil Veterinary Department.
Inorganic Chemistry, Intermediate	66	53	
Organic Chemistry, Intermediate	87	25	
Surveying and Levelling, Intermediate ..	33	148	Excludes three days spent in the field.
Agricultural Engineering, Intermediate ..	43	14	Division between lectures and practical instruction is approximate.
Class III.			
Agriculture, Advanced, Part I	101	120	Excludes 23 days spent on agricultural excursions, of which seven days were occupied in travelling and resting, and the remaining sixteen days in work.
Do. do. Part II	79	24	Excludes hours in which the class worked in batches at oil-cake analysis, &c.
Agricultural Engineering, Intermediate ..	48	146	Division between lectures and practical instruction is approximate. Excludes two half-days spent on excursions.
Veterinary Science, Intermediate, Stage II.	94	108	Of the lectures, 29 were delivered by the Superintendent, Civil Veterinary Department. Of the hours of practical instruction, 36 were taken by the Superintendent, Civil Veterinary Department.
Museum classes	..	26	

Occupation.		Number of students.
Teachers of Agriculture		4
Employed in the Agricultural Department	Bombay 1, Madras 5, Native States 10	16
Employed in the Civil Veterinary Department		13
Revenue Inspectors		38
Employed in the Forest Department	Madras Government 23, Native States 17	40
Employed by Government in other posts		84
Employed by local bodies		12
Employed by Native States in other posts than Agriculture or Forests.		23
Barristers, Pleaders and Merchants		9
Resident outside India		7
Unemployed		16
No answers received		25
Sub-Magistrates		3
Dead		22
	Total	355

13. Classes I and III underwent gymnastic instruction. Class II, as in previous sessions, was exempted from gymnastics owing to press of out-door work.

The athletic club as usual looked after the requirements of the students in cricket, tennis and foot-ball. Tennis seems to be the favourite recreation of the majority of men here. Towards the close of the session a boat was purchased and a Boat Club formed. Nearly every afternoon in March and April the boat was out on the river and appeared to give its occupants a good deal of exercise in a very short time.

The athletic sports of the College were held on Saturday, 16th February 1895, in the presence of a fairly large assembly. The Honourable Mr. Justice Best was kind enough to distribute the prizes. By permission of the Commanding Officer and Officers the Band of the 27th Madras Infantry played a selection of music during the sports. A Native Band was also in attendance.

14. The Agricultural Students' Association held seven meetings, at which papers dealing with agricultural questions were read and discussed. A paper on "Tobacco cultivation" contributed by student M. Paramaswara Aiyar of Class III was printed and circulated among the members. The anniversary meeting of the Association was held on Thursday, 2nd May 1895, on a more extended scale than usual, the meeting being preceded by refreshments and succeeded by a musical party.

15. From July to December the Farm hostel was under the management of a contractor, who did not give complete satisfaction and left at the end of the year. In January and February there was no hostel on the Farm, but on 1st March a hostel was opened under the management of a committee of students with an assistant of the College as chairman and another assistant as treasurer. The number of students on the 1st April messing in the hostel was 17. The same number of Teachers' College students was allowed to join. Referring to your remark in paragraph 3 of the review of my last report, I beg to state that I have not noticed any difference in health between students messing in the hostel and those living in the village of Saidapet.

16. *Financial statement.*—The statement appended to the report shows an expenditure, including Farm and Veterinary hospital, but excluding scholarships, of Rs. 34,424–5–4 against Rs. 32,224–11–5 for 1893–94. The receipts amounted to Rs. 4,961–13–11 against Rs. 4,625–5–6 during the previous year.

17. *The Farm.*—The report is, as usual, for the financial year. The season was irregular, the rainfall being not only deficient but badly distributed. The south-west monsoon was very late in bringing rain, while the north-east monsoon ceased earlier than usual.

The rainfall statement is annexed. In this connection I beg to state that the average rainfall was incorrectly given in my last report. It should have been 51·92 inches and not 51·22 inches;—

Statement showing the monthly rainfall registered at the College Farm, Saidapet.

Months.	Actual rainfall, 1894–95.	Average rainfall collected at Saidapet during the previous 24 years.
	INCHES.	INCHES.
April 1894	0·97	0·27
May „	...	2·31
June „	0·36	2·63
July „	2·02	4·17
August 1894	10 68	4·81
September „	5 79	5·32
October „	10·58	11·24
November „	12·71	14·42
December „	0·46	5·43
January 1895	...	0 47
February „	...	0 47
March „	...	0·29
Total ...	43·57	51·83

18. The net cost of the Farm annexé was Rs. 859–12–8 against Rs. 1,309–7–5 during the previous year. The outbreak of foot-and-mouth disease, which occurred in November and December, occasioned a good deal of extra expenditure in the shape of cattle food and hire of animals to go on with the Farm work. The season too was not favourable and of course farming operations for profit are considerably hampered by the Farm being attached to the College for educational purposes. Under these circumstances, I think M.R.Ry. R. Ramaswami Iyer, 4th Assistant, and M.R.Ry. J. Chelvaranga Raju, Bailiff, who are chiefly concerned in the management of the Farm, can be said to have done well.

Farm Receipts	Rs. A. P.	Rs. A. P.
Field produce		1,354 8 9
Live-stock—		
Sale of cows, calves, sheep, &c.	510 0 0	
Sale of milk, butter, ghee, &c.	939 5 10	
Covering fees	80 0 0	
		1,529 5 10
Miscellaneous		692 2 4
Total ...		3,576 0 11

Farm Charges.	Rs. A. P.	Rs. A. P.
Cattle food—		
Ground-nut cake, &c.	890 15 1	
Dholl husk	304 10 0	
Wheat bran	175 1 3	
Salt	38 0 0	
Paddy straw	124 13 7	
Rice, ragi, &c.	15 12 0	
		1,549 3 11
Manure		9 13 0
Seeds and plants		126 9 7
Cooly labour		2,248 2 6
Machines, implements, &c.		209 10 9
Workshop		42 8 7
Estate improvements		67 7 0
Contingencies		74 11 7
Live-stock		107 10 8
Total ...		4,435 13 7

19. The following statement gives the cropping of the Farm :—

Number of fields.	Area in acres.	Crop.	When sown.	When harvested.	Cost of cultivation.	Grain in Madras measures.	Straw, hay or green fodder in tons.	Cobs in Madras measures.	Value.	Hay or green fodder in tons.	Value.	
	Acs.				Rs. A. P.				Rs. A. P.		Rs. A. P.	
1. West	3·50	Horsegram	1st November 1894	28th February 1895	13 14 0	.. ..	..	..	..	..	..	Set apart for practical work of students.
1. East (North) ..	1·75	Blackgram	2nd ,, ,, ...	29th January ,, ...	12 2 0	370	*Nil.*	246⅔	17 9 11	*Nil.*	..	Grain sold at 14 measures a rupee.
.. South) ..	1·75	Varagu and dholl	19th September ,, ...	Varagu on 1st March 1895, dholl still in field.	33 15 0	144	*Nil.*	96	12 0 0	*Nil.*	..	Do. at 8 do. do.
2. West	2·56					256 (of varagu).	2½ (straw).	100	2 13 6	·98	3 6 8	Grain valued at 38 measures a rupee and straw at Rs. 3–8–0 a ton.
2. East	2·50	Guinea grass	10th and 11th March 1893 ..	Various	121 14 0	*Nil.*	13·80 (green fodder).	*Nil.*	..	5·52	61 13 2	Green fodder valued at 200 lb. a rupee.
3.	3·80	Yellow cholum for hay	3rd August 1894	15th October 1894	20 6 6	*Nil.*	4·5 (hay).	*Nil.*	..	1·18	17 11 2	Hay valued at Rs 15 a ton.
		1st crop cumbu for hay	6th July ,, ...	12th September ,, ...	13 2 0	*Nil.*	3·5 (hay).	*Nil.*	..	1·84	18 6 5	Do. at Rs. 10 do.
4.	1·90	2nd ,, yellow cholum for hay	10th October ,, ...	6th February 1895	22 9 0	*Nil.*	3 (hay).	*Nil.*	..	1·58	23 11 2	Do. at Rs. 15 do.
		1st ,, horsegram for hay	4th July ,, ...	1st October 1894	13 4 0	*Nil.*	2 (hay).	*Nil.*	..	1·11	16 10 5	Do. at Rs. 15 do.
5.	1·80	2nd ,, white cholum for hay	29th October ,, ...	28th January 1895	9 0 0	*Nil.*	1·8 (hay).	531½	29 8 3	2·5	20 0 0	Grain sold 18 measures a rupee and straw valued Rs. 8 a ton.
		1st ,, ragi	Transplanted, 6th May 1894 ..	31st August 1894	45 11 6	850	4 (straw).	265	18 14 10	2·5	20 0 0	Do. valued 14 measures a rupee and straw valued Rs. 8 a ton.
6.	1·60	2nd ,, white cholum	30th October 1894	11th March 1895	19 9 3	424	4 (straw).	40	3 8 0	*Nil.*	..	Poor return owing to flowers being washed off by heavy rain in August. ... tturn very inferior. Sold at 10½ measures a rupee.
		1st ,, Gingelly	26th June ,, ...	4th October 1894	10 15 0	80	*Nil.*					
	2·00											Sown on ridges, one of cotton and two of maize alternating. Sown late ... rival of seeds from England. Cobs valued at 3 pies each and straw at Rs. 8 a ton.
7. West	1·00	2nd ,, sea, island cotton and castor's horse-tooth maize.	23rd November ,, ...	Maize on 19th March 1895, cotton still in field.	30 0 0	600 cobs.	¼ (straw).	600 cobs.	9 6 0	·25	2 0 0	Green fodder valued at Rs. 15 a ton.
		Do. Sutton's yellow variety of maize (half for seed and half for green fodder).	5th December ,, ..	31st January 1895	18 3 6	540 cobs.	⅓ (green fodder).	*Nil.*	..	⅔	10 0 0	
East	1·00			19th March ,, ...			⅓ (straw).	1,080 cobs.	16 14 0	⅔	3 3 2	Cobs and straw valued at 3 pies each and Rs. 8 a ton, respectively.
												Crop failed. No. 8 is a very difficult field to cultivate and it is much exposed to t...
8.	2·70	Castor and ragi	4th November ,, ...	3rd November 1894	13 0 0	*Nil.*	2½ (hay).	*Nil.*	..	2·19	32 13 7	Hay valued at Rs. 15 per ton.
		1st crop yellow cholum for hay ..	4th August ,, ...	Crop standing in field	34 7 6							....
9.	1·14	2nd ,, indigo	5th February 1895	2nd July 1894	33 1 0	*Nil.*	3·57 (green fodder).	*Nil.*	..	3·20	35 2 8	Green fodder valued 200 lb. a rupee.
		1st ,, yellow cholum for fodder ..	19th April 1894	23rd March 1895	44 6 0	800 lb.	*Nil.*	714·3 lb.	20 11 5	*Nil.*	..	Yield stated is the weight after deducting the quantity given for picking (about three ...
10.	1·12	2nd ,, groundnut	21st August ,, ...	14th March ,, ...	66 4 9	1,200 lb.	*Nil.*	706 lb.	20 7 8	*Nil.*	..	yield). Sold at Rs 14–8–0 a candy of 500 lb.
		1st ,, ,, ...	17th ,, ,, ...	16th March 1895	21 5 0	..	..	..	..	..	..	Sutton's white variety of maize also sown but seeds failed ...
11. North	1·70	2nd ,, yellow cholum for fodder ..	16th March 1895	Not yet harvested	..	..	..	..	..	..	..	....
South	·50	Plantains	1st July 1892	Standing	8 11 0	..	..	..	..	..	..	
												Reserved for plot cultivation.
Plots	·3											Hay valued at Rs. 15 a ton.
12. West	1·00	Yellow cholum for hay	20th April 1894	4th June 1894	26 14 6	*Nil.*	2·23 (hay).	*Nil.*	..	2·23	33 7 2	Grain valued at 18 measures a rupee and straw at Rs. 8 a ton.
East	2·00	1st crop ragi	Transplanted, 31st May 1894 ..	28th August 1894	94 9 0	1,014	5 (straw).	507	28 2 6	2·5	20 0 0	Do. at 16 do. do. do. do.
		2nd ,, yellow cholum	11th October 1894	20th February 1895	29 8 0	468	4·25 (straw).	234	14 10 0	2½	17 0 0	Do. at 16 do. do. do. do. at Rs. 3 a ton.
		Wheat (Coimbatore)	7th December ,, ...	17th March 1895	29 10 0	84	½ (straw).	280	17 8 0	⅔	2 8 0	Grain sold 22½ measures a rupee and straw valued at Rs. 10–8–0 a to...
13.	·30	1st crop white car	10th January ,, ...	4th May 1894	82 5 6	2,292	¾ (straw).	848·88	37 2 3	1·11	11 10 6	Do. do. do. do. do.
A.	2·70	2nd ,, sixty days' samba	24th May ,, ...	98h August 1894	75 0 0	2,240	2½ (straw).	829·63	36 4 9	·93	9 12 3	....
		3rd ,, ,, ,, ...	23rd January 1895	Standing	..	..	..	..	..	..	..	....
		Sugarcane	18th August 1894	Do.	..	..	..	..	..	..	..	....
14.		Chillies	26th January 1895	Do.	..	..	..	..	..	..	..	
B.	·75	Maize	12th December 1894	23rd March 1895	3 2 0	200 cobs.	1/10 (straw).	1,000 cobs.	15 10 0	·5	4 0 0	Cobs and straw as before.
		Sixty days' samba (broadcast)	15th September 1894	4th January 1895	13 4 0	80	1/10 (straw).	160	7 0 0	·5	5 4 0	Grain sold 22½ measures a rupee and straw valued at Rs. 10–8–0 a ton.
		Pisini dry variety (drilled)	14th ,, ,, ...	4th ,, ,, ...	42 4 0	1,196	3⅔ (straw).	299	13 12 4	·94	9 13 6	Do. 21½ do. do. do. do. do.
		Chinna samba (broadcast)	15th ,, ,, ...	25th ,, ,, ...	10 8 0	552	1 (straw).	1,104	53 10 8	2	21 0 0	Do. 20½ do. do. do. do. do.
16.	5·00	Horsegram	9th November ,, ...	23rd February ,, ...	10 6 0	..	..	..	..	..	..	Crop failed.
		Greengram	10th ,, ,, ...	21st ,, ,, ...	5 3 0	64	*Nil.*	64	8 0 0	*Nil.*	..	Grain sold 8 measures a rupee.
17.	3·00	Ragi (on ·25 acres only)	Transplanted, 16th June 1894 ..	1st September 1894	13 7 9	108	⅓ (straw).	432	24 0 0	1⅓	10 10 8	Grain sold 18 measures a rupee and straw valued Rs. 8 per ton.
		Sirumani (on 1·0 acre)	Do. 25th October 1894.	26th February 1895	52 0 6	1,152	2 (straw).	1,152	59 4 8	2	21 0 0	Do. do. do. do. Rs. 10–8–0 a ton.
		Do. (broadcasted)	10th September 1894	9th ,, ,, ...	36 1 6	1,008	1·5 (straw).	1,008	51 14 1	1·5	15 12 0	Do. do. do. do. do.
18.	..	1st crop ragi	Transplanted, 16th June 1894 ..	4th September 1894	48 13 3	284	1 (straw).	378⅔	21 0 7	1⅓	10 10 8	Grain sold at 18 measures a rupee and straw valued Rs. 8 a ton.
		1st ,, cholum for fodder	19th April 1894	Various	22 0 0	*Nil.*	2·12 (green fodder).	*Nil.*	..	2·49	27 14 5	Green fodder valued at 200 lb. a rupee.
		2nd ,, sirumani, transplanted ..	23rd October 1894	26th February 1895	79 7 0	2,016	2·5 (straw).	1,260	64 10 8	1·56	16 6 6	Grain sold at 19⅔ measures a rupee and straw valued Rs. 10–8–0 a ton.
20.	1·60	1st ,, yellow cholum for hay	27th January ,, ...	Various	26 6 6	*Nil.*	1 (hay).	*Nil.*	..	1·	15 0 0	Hay valued Rs. 15 a ton.
		2nd ,, white car (on bed dry) ..	25th August ,, ...	29th December 1894	31 0 3	488	1·5 (straw).	488	23 11 7	1·5	15 12 0	Grain sold at 20¼ measures a rupee and straw valued at Rs. 10–8–0 a ton.
		Sirumani (broadcasted)	13th September 1894	11th February 1895	70 1 6	3,120	6⅔ (straw).	734·11	37 12 7	1·5	15 12 0	Do. at 19⅔ do. do. do. do. do.
21.	1·00	Yellow cholum for fodder	21st ,, ,, ...	Various	13 4 0	..	3·15 (green fodder).	*Nil.*	..	1·05	11 12 10	Green fodder valued at 200 lb. a rupee.
22.	4·25	Chinna samba	6th ,, ,, ...	22nd January 1895	13 14 0	160	⅓ (straw).	320	15 8 11	1·	10 8 0	Grain sold 20½ measures a rupee and straw at Rs. 10–8–0 a ton.
25.	3·0 ... ·50 App.	Vadan samba	6th ,, ,, ...	22nd ,, ,, ...	32 9 6	528	1⅓ (straw).	528	25 10 8	1·5	15 12 0	Do. do. do. do. do. do.
	1·00 ,,	Pisini	12th ,, ,, ...	2nd ,, ,, ...	15 5 0	260	⅔ (straw).	520	25 4 5	1·	10 8 0	Do. do. do. do. do. do.
26. ..	0·50 ,,	Neelan samba	12th ,, ,, ...	8th February ,, ...	13 5 0	208	¾ (straw).	693⅓	33 11 3	⅔	8 12 0	Do. do. do. do. do.
	0·30 ,,											

20. There was a slight decrease in total amount of milk obtained, which can be explained by the fact that every cow in the herd was attacked by foot-and-mouth disease in November and December, and of course in these months there was great diminution in the yield. The daily average increased from 9·06 lb. to 9·40 lb. As I remarked in my last report, I do not attach much importance to these averages.

Name of cow.	Age.	Yield in 1894–95.		Number of days cow yielded.	Average.
		Madras Measures of 100 cubic inches.	Pounds.		
1. Kalyanee	11 years ..	58·00	216·34	53	1·09
2. Subbammah	14 „ ..	551·38	2,056·63	223	2·47
3. Meenakshi No. II	6 „ ..	582·25	2,171·79	230	2·53
4. Narayanee	7 „ ..	839·50	3,131·34	365	2·30
5. Tara	6 „ ..	955·63	3,564·48	343	2·75
6. Seetha	5 „ ..	586·50	2,187·65	247	2·37
7. Kamakshi	13 „ ..	301·63	1,125·06	117	2·58
8. Kali No. II.	8 „ ..	595·50	2,221·22	234	2·54
9. Meenakshi	14 „ ..	649·13	2,421·24	224	2·90
10. Sahib's cow	11 „ ..	506·13	1,887·85	192	2·64
11. Swarnam	5 „ ..	147·75	551·11	64	2·31
12. Kamalam	5 „ ..	80·00	298·40	30	2·67
	Total ..	5,853·38	21,833·11	2,327	..

The daily average per head for the whole herd $= \frac{5,853·38}{2,327} = 2·52$ Madras Measures $= 9·40$ lb.

21. As will be seen from the annexed statement, the value of the live-stock on the farm decreased by Rs. 751. In my last report I pointed out that the farm was overstocked. During the year under report live-stock to the value of Rs. 510 was sold off and the farm may now be said to carry a reasonable number of cattle and sheep.

Statement showing the number and value of stock at the commencement and end of the year 1894–95.

Description.	Commencement.		End.	
	Number of animals.	Value.	Number of animals.	Value.
		Rs.		Rs.
1. Cows	13	985	10	855
2. Heifers	6	160	4	140
3. Heifer calves	4	37	6	66
4. Bulls	13	1,475	11	935
5. Bullocks	7	457	6	430
6. Bull calves	5	95	3	35
Sheep.				
1. Rams	5	50	7	50
2. Ewes	16	80	21	84
3. Gimmers	4	12	1	3
4. Lambs	19	19	21	21
	..	3,379	..	2,619

22. The following statements give the information usually supplied regarding the live-stock of the farm:—

	Rs.	A.	P.
Value of labour to be charged against stock	225	0	0
Value of farm-grown fodder consumed by stock	689	12	5

Value of services rendered by live-stock on the farm :—

		RS.	A.	P.			RS.	A.	P.
Field No. 1	...	29	8	0	Field No. 13		0	12	0
„ „ 2	...	20	5	0	„ „ 14		67	2	0
„ „ 3	...	13	8	0	„ „ 16		24	6	0
„ „ 4	...	14	4	0	„ „ 17		25	14	0
„ „ 5	...	11	4	0	„ „ 18		24	0	0
„ „ 6	...	45	5	0	„ „ 20		36	6	0
„ „ 7	...	27	6	6	„ „ 21		15	6	0
„ „ 8	...	11	10	0	„ „ 22		17	10	0
„ „ 9	...	32	11	6	„ „ 25		5	4	0
„ „ 10	...	41	7	6	„ „ 26		19	8	0
„ „ 11	...	39	8	0					
„ „ 12	...	91	15	0	Total ...		615	0	6

120 tons of farm-yard manure, valued at Rs. 180, were obtained.

Bull service.—160 outside cows and 11 farm cows were served.

Value of service rendered by live-stock to College, Botanical Gardens, &c., Rs. 180.

23. *Botanical Gardens.*—The gardens were maintained in proper order. The plots in the upper terrace were utilized for growing specimens of the crops of the Presidency. The gardens cost Rs. 112 more than they did during the previous year. The excess cost is chiefly represented by additional cooly labour.

24. *Veterinary Hospital.*—The total number of patients rose from 345 to 446. The expenditure (including establishment) and income were Rs. 1,175–3–8 and Rs. 531–7–6, respectively, the corresponding figures for the previous year being Rupees 1,070–2–8 and Rs. 496–13–11. A letter from Mr. D'Silva and the usual tabular statement are appended to the report.

25. The service books of the establishment have been written up to date.

26. In conclusion, I desire to acknowledge the services of the Assistants and other officers of the college.

—

From S. L. D'SILVA, Esq., Second Assistant Sub. *pro. tem.*, in charge of the Government Veterinary Hospital, Saidapet, to the Acting Principal, College of Agriculture, dated Saidapet, 30th April 1895.

I beg to submit herewith a statement, in the usual form, of the cases treated at the Veterinary hospital during the year ending 31st March 1895.

It will be seen from the statement that there was an increase under each heading in the number of cases treated during the year. The increase is especially notable in the case of cattle patients, whose number rose from 119 in 1893–94 to 167 in 1894–95. This increase, however, was partly due to an outbreak of foot-and-mouth disease on the farm in November last, when 31 head of cattle were attacked and treated.

The castration operations conducted at the hospital during the year under report seem to establish the noteworthy fact that bulls can stand the improved methods of castration just as well as, if not better than, horses. Three bulls were castrated by the actual cautery, and the results were highly satisfactory. There was no bleeding after the operation, and no other untoward consequences of any kind were noticed. The popular notion that method of castration other than "mulling" do not quite suit bulls is not borne out by these results.

Statement showing the principal classes of diseases treated at the Government Veterinary hospital, Saidapet, during 1894–95.

Class of disease.	Horses and ponies.		Bulls and bullocks.		Cows and heifers.		Other animals.		Total.	
	Treated.	Died.	Treated.	Died.	Treated.	Died.	Treated	Died.	Treated.	Died.
Non-specific blood diseases	23	..	9	..	2	..	20	2	54	2
Specific blood diseases	7	1	21	..	14	..	10	..	52	1
Diseases of the digestive organs	16	..	10	..	1	1	30	2	57	3
Do. of the biliary apparatus	4	1	1	..	..	..	7	1	10	2
Do. of the respiratory organs	22	..	4	..	1	..	5	1	34	1
Do. of the urinary system	1	..	..	..	..	..	..	..	1	..
Do. of the skin	6	..	2	..	..	..	16	..	24	..
Do. of the foot	20	..	1	..	1	..	..	..	22	..
Do. of the eye	3	..	4	..	2	1	4	..	13	1
Do. of the ear	..	..	..	..	..	..	6	..	6	..
Do. of the lactiferous organs	..	..	..	..	2	..	..	..	2	..
Do. of the generative organs	..	..	..	..	3	..	4	..	7	..
Do. of the nervous system	2	1	..	..	..	..	1	1	3	2
Injuries and diseases of bones	4	..	5	1	1	..	2	..	11	1
Injuries and diseases of ligaments, tendons and muscles	23	..	12	..	..	..	..	..	36	..
Surgical conditions, wounds, tumours, &c.	29	1	58	2	13	..	14	2	114	5
Total	160	4	127	3	40	2	119	9	446	18

—

	Budget estimate for 1894–95.	Expenditure.	
		1893–94.	1894–95.
	RS.	RS. A. P.	RS. A. P.
Principal	13,800	10,759 5 4	† 11,907 14 1
Masters and Teachers	9,834	8,198 2 1	9,166 6 10
Establishment	2,330	2,305 14 1	2,337 3 2
Ordinary contingencies	950	899 14 6	943 13 7
Service postage	100	45 0 0	50 0 0
Service telegram		1 8 0	5 14 0
Rents, rates and taxes	70	78 10 0	69 12 0
Scholarships *	..	..	..
Travelling allowances	700	598 11 0	703 5 0
Library and prize allowances	350	158 11 0	214 4 8
Laboratory charges	250	75 6 8	107 7 3
Furniture, apparatus and live-stock	1,200	745 1 1	257 2 6
Farm annexé	4,500	4,500 14 0	4,435 13 7
Botanical gardens	1,000	797 15 3	909 0 9
Petty construction and repairs	1,550	1,613 12 10	1,548 5 11
Payments made through the Accountant-General's office for periodicals, stores, &c.	..	343 2 11	592 10 4
Public Works Workshops adjustments	..	52 8 0	..
Veterinary Hospital charges.			
Establishment	816	816 0 0	815 8 0
Contingencies	1,184	254 2 8	359 11 8
Total	38,634	32,244 11 5	34,424 5 4
Receipts.			
College of Agriculture	..	4,128 7 7	‡ 4,430 6 5
Veterinary hospital	..	496 13 11	531 7 6
Total	..	4,625 5 6	4,961 13 11

* Rs. 3,407–9–2 under this head are to be charged against separate provision in the educational budget.
† Includes Rs. 1,700–12–6, being exchange compensation allowance.

	RS.	A.	P.
‡ Farm	3,576	0	11
Fees	600	0	0
Rent and miscellaneous	254	5	6

No. 579.

Referred to the Commissioner of Land Records and Agriculture for favour of remarks and early return.

(Signed) D. DUNCAN,
Director of Public Instruction.

16th May 1895.

Resolution—dated 19th June 1895, No. 169.

Government in its Order No. 759, Educational, dated 8th October 1894, having directed that the report on the college should only deal with matters that have occurred during the official year, the Board will proceed to review the work of the college without awaiting the results of the examinations held in April last.

2. The orders of Government regarding the reorganisation of the college, and granting a recognition, so far as employment in the public service is concerned, to persons who obtain the Agricultural diploma, were received too late in the year to have any influence on the recruitment of students for the class formed in July 1894. They had the effect however of increasing the number of students in the college from 41 to 47, as several students rejoined the senior class with a view to completing the tests for the Agriculture diploma. A proposal made by Government to institute a special course in Agriculture as a training for Revenue Inspectors was under discussion during the year, but no final decision on the subject was arrived at.

3. The curriculum adopted in the college underwent no alteration, and the Principal does not think that it can be improved. The Board in its Proceedings, No. 33 of 1895, drew special attention to what it considered to be the undue amount of time devoted to the teaching of Surveying and Levelling and Agricultural Engineering (subjects which are only indirectly connected with Agriculture), and suggested that the courses in these subjects might be reconsidered. The Government has recently directed that a Committee should be formed to consider the matter.

4. The cost of the college during the year, excluding the farm, garden and hospital, amounted to Rs. 27,904–3–4 against Rs. 25,875–11–6 in 1893–94; the bulk of the increase occurring under charges for staff, although no steps have yet been taken to fill up the post of Vice-Principal.

5. The Government, in its order, dated 10th August 1894, No. 587, Revenue, determined to open a class in connection with the college in which instruction in Veterinary Science up to the intermediate standard should be given, and sanctioned the appointment of a special Veterinary Assistant, under the Civil Veterinary Department, to carry on the work, but the approval of the Government of India to the appointment was not received during the year.

6. The success of the operations on the college farm was to a certain extent marred by an untimely and deficient rainfall, whilst the farm stock suffered from an outbreak of foot-and-mouth disease. The subjoined table summarises the results obtained from the crops grown. Some of the yields are fair. In another year, the Principal should, the Board suggests, be requested to report all yields in pounds for grain and the like, yields of fodder and straw being returned in tons as at present.

Crops.	Area sown.	Outturn. Grain or seed. Amount.	Grain or seed. Per acre.	Straw or fodder. Amount.	Straw or fodder. Per acre.	Remarks.
Cereals.	Acs.	Measures.	Measures.	Tons	Tons.	
Paddy	21·55	15,300	710	27·125	1·21	2·70 acres standing.
Wheat (Coimbatore)	·30	84	280	·25	·83	
Ragi	4·60	2,256	490	10·33	2·25	
Cholum	3·60	892	248	8·25	2·29	
Varagu and dholl	2·56	256	100	2·50	·98	Dholl standing.
Maize	1·37	1,340 (Cobs.)	978	·55	·40	Cotton sown with maize standing on ·33 acres.
Caster and ragi	2·70	Failed.				

Crops.	Area sown.	Outturn. Grain or seed. Amount.	Grain or seed. Per acre.	Straw or fodder. Amount.	Straw or fodder. Per acre.	Remarks.
Pulses.	Acs.	Measures.	Measures.	Tons.	Tons.	
Horse-gram	1·75	370	211	..	..	Crop on 2 acres failed.
Black-gram	1·75	144	82	..	..	
Green-gram	1·00	64	64	..	..	
Industrial.						
Sugarcane	·40	..	..	..	..	Crop standing.
Indigo	1·14	..	..	..	..	
Gingelly	2·00	80	40	..	..	
Ground-nuts	2·82	2,000 lb.	709	..	..	
Fodder.				*Green fodder.*		
Guinea grass	2·50	..	..	13·80	5·52	
Maize	·50	..	..	·33	·67	
Cholum (green)	4·97	..	..	8·84	1·78	1·70 acres not harvested.
Cholum (dry)	10·64	..	..	15·03	1·41	
				Dry fodder.		
Cumbu	1·90	..	..	3·50	1·84	
Horse-gram	1·80	..	..	2·00	1·11	
Sundries.						
Plantains	·50	..	..	..	..	Standing.
Chillies	·15	..	..	..	..	

7. Owing to the outbreak of foot-and-mouth disease, the yield of milk obtained from the dairy herd fell off slightly, although the daily average yield per head increased. It is not clear whether the record was made by weight, or only calculated to weights for the purposes of the report.

The Principal has wisely reduced the stock kept on the farm, which was previously excessive.

The number of cows brought for service by the bulls kept on the farm showed a satisfactory increase.

8. The number of patients treated in the Veterinary hospital showed a material increase, part of which was due to the outbreak of disease on the farm in November 1894.

(True Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Director of Public Instruction, with the original report returned.
Copy to all Collectors.
" to the Superintendent, Civil Veterinary Department.

Read—the following letter from the Acting Principal, Madras College of Agriculture, to the Director of Public Instruction, dated Saidapet, 15th July 1895, No. 422:—

I have the honour to submit the report of the Superintendent, Civil Veterinary Department, on the work carried on by him at this College during the session 1894–95. I have no remarks to make, as I concur in those contained in the report. I should, however, like to take this opportunity of acknowledging the great advantage derived by the College from the connection with it of Veterinary-Lieutenants Turnbull and Harris.

From the Superintendent, Civil Veterinary Department, Madras Presidency, to the Principal, Government Agricultural College, Saidapet, dated Chepauk, 1st July 1895, No. 519.

I have the honour to submit, herewith, a report of the work carried out by the Superintendent, Civil Veterinary Department, at the Government Agricultural College during the official year ending the 31st March 1895.

The late Superintendent, Veterinary-Lieutenant Turnbull, lectured from July to September 1894, and during that period his work was as under :—

Class II, Physiology.—Eleven lectures of one hour each.

Class III, Veterinary Medicine and Surgery, theoretical.—Eleven lectures of one hour each.

Class III, Veterinary Medicine and Surgery, practical.—Nine lectures of 1½ hours each.

In the practical portion of the curriculum, he was assisted by Mr. S. L. D'Silva, Second Assistant.

He held one examination for each class on the portions done at the end of the period of study.

I took charge of the Office of Superintendent, Civil Veterinary Department, on the 30th November 1894.

I delivered the undermentioned lectures from the 22nd January to the 28th March 1895:—

Class II, Physiology.—Eighteen lectures of one hour each.

Class III, Veterinary Medicine and Surgery, theoretical.—Eighteen lectures of one hour each.

Class III, Veterinary Medicine and Surgery, practical.—Thirteen lectures of 1½ hours each.

In the practical portion of the curriculum, I was ably assisted by Mr. S. L. D'Silva, Second Assistant.

With regard to the theoretical portion of my course, I consider the men of my class were exceedingly well up in their work. This fact is praiseworthy, as students had worked under great disadvantages during the year, having their course of lectures broken up for a lengthy period owing to my predecessor's (Veterinary-Lieutenant Turnbull) transfer to the North Punjab.

Practically, I found that men were able to perform simple operations satisfactorily. They are called on for no more. Their weakness lies in their inability to handle animals with skill. This point shall be given more attention and corrected during the current year.

I would, in conclusion, compliment Mr. S. L. D'Silva, Second Assistant, on his work during my term of office.

No. 10147.

Introduction.—The year was memorable in the annals of the College. The state of suspense in which the College had worked for several sessions was at length removed by Government passing final orders on the College curriculum and other kindred matters long pending. Government raised the value of the diploma in Agriculture by opening the Revenue and Judicial Higher tests to men who have obtained it, even though they have passed only the Matriculation Examination, which the Government recognized as the minimum general education qualification for admission into the College. The Director trusts that the College will be better recruited in future in consequence of the above concession.

2. *Staff.*—No steps were taken to fill the post of Vice-Principal. M.R.Ry. C. Krishna Menon, Fourth Assistant, went to England on a year's leave on forfeiture of pay with a view to improve his qualifications, and on the recommendation of Government the Secretary of State was pleased to sanction for him a special bonus of £100 on condition of his serving in the College for three years after his return to India.

3. *Strength.*—There were 47 students on the rolls on the 31st March 1895 as against 41 on the corresponding date in 1894. The Principal attributes this to the re-entry into the College of several students with a view to complete the tests for the diploma. The exact number of such students should have been given. Fourteen of the students came from territories beyond the Presidency limits, Mysore and Coorg contributing respectively eight and three; and of the districts only five—Tanjore, Tinnevelly, Coimbatore, Salem and Madura—sent in three to five each, the other districts being represented by one or two only. Of the students, 32 were Brahmans and 12 non-Brahman Hindus. The European, Native Christian and Muhammadan communities had each but a single representative. The increase in the number of non-Brahman students is encouraging. Eight students belonged to the richer and 37

to the middle classes; and 10 were the sons of officials and 34 of land-holders; 25 on the whole were stipendiaries, the rest being paying scholars. Only five of the seven district scholarships were filled by Collectors' nominees, of whom two were First Arts undergraduates. Although a pass at the Matriculation Examination has been recognized as the minimum qualification for admission into the College, the importance now attached to the diploma will, the Director trusts, enable Collectors to secure graduates or at least undergraduates of the F.A. standard as scholarship-holders.

4. *Examinations.*—The results obtained by the College at the Government Technical Examination held in April 1894 have been noticed and commented on in paragraph 4 of Proceedings No. 8655, dated 12th September 1894, reviewing the report for 1893–94. Paragraph 10 of the Principal's report is unnecessary as, with reference to Government Order on the report for 1893–94, information connected with the examination held in April 1895 should find place in the report for 1895–96.

5. *Practical work.*—It does not seem to the Director that the practical work done by the several classes was attended with such success as might have been expected. Class III made two agricultural excursions through Anantapur and Coimbatore, but only sixteen days were spent in actual work. Untimely and deficient rainfall more or less affected the operations on the farm.

6. *Veterinary instruction and hospital.*—Pending the orders of the Government of India the special Veterinary class which Government proposed to start in the College for training young men for subordinate posts in the Civil Veterinary Department and as private practitioners was not opened during the year. There was a general rise in the number of patients treated at the Veterinary hospital, the large increase under cattle patients being due to the outbreak of foot-and-mouth disease on the farm. The Director presumes that the instruction in the last review as to the necessity for a thorough knowledge of the common bazaar drugs used in Veterinary Science is being acted up to. It is observed that the net expenditure on the Veterinary hospital rose from Rs. 573 to Rs. 614.

7. *The College farm.*—Some of the yields from the crops grown on the farm-annexé were fair, and the results would have been better but for untimely and insufficient rain. The reduction in the live-stock is noted with satisfaction, as also the increase in the number of cows brought for service. The yield of milk by the farm dairy which, the Director understands, was obtained by volume and calculated to weight, slightly fell owing to the outbreak of foot-and-mouth disease, but it is noted that the daily average yield had increased. The net expenditure on the farm fell from Rs. 1,309 to Rs. 860, which must chiefly be attributed to the increased receipts from farm produce and sale of live-stock. A satisfactory reduction is also noticed in the outlay on cattle food.

8. *The College hostel.*—Seventeen students of the College were accommodated in the hostel on the farm. From the fact that students of the Teachers' College to the above number were allowed boarding in the hostel, the Director believes that all the students of the College of Agriculture who cared to have the benefit of a hostel have been provided for. The Principal is requested to state whether the above surmise is correct. A rough plan of the hostel with the dimensions clearly marked should be submitted to the Director, to enable him to see whether the hostel accommodation is sufficient. It should also be reported how the charges of the hostel are met.

9. *Former students.*—From the particulars appended to paragraph 12 of the report it is observed that only 154 former students are employed in the Agricultural and kindred departments out of 355 students educated in the College. The proportion can hardly be viewed as satisfactory, considering that the cost of educating each student has always been very high. The cost per head during 1894–95 was as high as Rs. 650. But the Director cannot see his way to a larger number of men being employed to any useful purpose, unless the Board of Revenue and the District officers co-operate with the Department in filling subordinate posts in the Revenue, Settlement and Forest Departments with men holding the College diploma, other things being equal. If necessary, the Principal will be instructed to forward to District officers every year a statement showing the general and special qualifications of the students that have completed their College course and are willing to take up appointments in the departments concerned.

10. *Finances.*—Excluding scholarships amounting to Rs. 3,408, the expenditure on the College aggregated Rs. 34,424, of which Rs. 6,520 appertained to the farm, gardens and Veterinary hospital. The increase over the figure for the previous year was chiefly due to the grant of increment and exchange compensation allowance to the Acting Principal.

11. *Conclusion.*—The work of the Acting Principal and the staff was on the whole fair. More attention should be paid to the practical training of students, seeing how Class III failed to answer the third paper on Agriculture. The Director assumes that students are required to take independent notes of their observations while on excursions and that the notes are carefully gone over by the members of the staff and criticised in the presence of the whole class.

(A true Extract.)

14th September 1895. (Signed) D. DUNCAN,
Director of Public Instruction.

Order—No. 834, Educational, dated 19th October 1895.

Recorded.

2. A brief account of the origin and working of the hostel attached to the college should be submitted for the information of Government.

3. The suggestion at the end of paragraph 9 of the Director's Proceedings is approved.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Director of Public Instruction.
,, Revenue Department.
Editors' Table.

Exd. Shaik Kareem.

H.M.

Submitted to H.M. with reference to his ~~—~~ query in the original G.O. No 834 Ed. & 19th Oct-95. viz- "What is done with the milk!"

The milk is sold to the public and is also utilized in manufacturing butter and ghee which are also sold to the public. Please see the particulars under farm receipts in para 18 of the report.

772/5/11 W 5/11/95 H 6.11.95

Seen
JG
7/11/95

e7/11
RM/11

No. 10147.

PROCEEDINGS OF THE DIRECTOR OF PUBLIC INSTRUCTION, dated 14th September 1895.

College of Agriculture, Saidapet, 1894-95.

Read the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 19th June 1895, No. 169 :—

Read the following letter from W. KEESS, Esq., M.A., M.R.A.C., Acting Principal, Madras College of Agriculture, to the Director of Public Instruction, dated Saidapet, 4th May 1895, No. 353 :—

I have the honour to submit the report of the College of Agriculture for the session 1894–95 (4th July 1894 to 4th May 1895).

2. The session under report is noticeable in that shortly before it opened Government conferred valuable privileges on the possession of the diploma in Agriculture and also passed orders on the curriculum and future working of the college. Hereafter matriculate students of this institution, who possess the diploma in Agriculture, can appear for the Revenue Test, Higher Grade, and the Criminal Judicial Tests, Lower and Higher Grades. The notification, which contained the bestowal of this recognition on the diploma, appeared in the *Fort St. George Gazette*, on the 29th May 1894, that is, about five weeks before the session commenced ; while the orders on the curriculum and future working of the college (G.O., dated 22nd June 1894, No. 460, Educational), reached me on 20th July 1894, that is, about a fortnight after the college had re-opened. The recruitment of the new class was not therefore stimulated to any perceptible extent, but several students, who had spent three years at the college, rejoined the senior class with a view to completing the tests for the diploma. For six sessions previous to the one under report the college had worked with its diploma unrecognised and with a feeling of suspense hanging over it. It is a matter for sincere congratulation that this state of affairs has at last come to an end.

3. There was only one change in the *personnel* of the staff. As this occurred at the commencement of the session, it caused no inconvenience. On 1st July 1894 M.R.Ry. C. Krishna Menon, Fourth Assistant, availed himself of a year's leave without allowances and M.R.Ry. R. Ramaswami Aiyar, Agricultural Inspector, was appointed to act for him.

4. The annexed statement shows that there were six more students on the rolls on the 31st March 1895 than on the corresponding date in the previous year. The increase has been explained in paragraph 2. On the 1st September 1894 student Iyappa (Coorg) of class I was accidentally drowned in the river Adyar while bathing. During the session, two students withdrew, one because he could not be suitably accommodated at Saidapet and the other because his father died and he was required to look after the family property :—

—	Class I.		Class II.		Class III.		Total.	
	31st March 1894.	31st March 1895.	31st March 1894.	31st March 1895.	31st March 1894.	31st March 1895.	31st March 1894.	31st March 1895.
Europeans and Eurasians ..	..	..	1	..	..	1	1	1
Native Christians	..	..	1	..	..	1	1	1
Muhammadans	1	..	..	1	..	..	1	1
Brahmans	10	7	11	9	10	16	31	32
Non-Brahman caste Hindus.	3	8	2	2	2	2	7	12
Total ..	14	*15	15	12	12	20	41	*47

* Excludes the student who was allowed to attend as a casual student (Proceedings, No. 3471, dated 22nd March 1895).

5. As directed in paragraph 2 of Proceedings, No. 6450, dated 31st August 1888, a statement showing the distribution of students according to the districts from which they come is annexed. It will be observed that 14 out of the 47 students come from territories outside the Madras Presidency.

Districts.	Class I.	Class II.	Class III.	Total.
Vizagapatam	..	1	..	1
Gódávari	1	..	..	1
Nellore	..	1	..	1
Cuddapah	1	..	..	1
Anantapur	..	..	1	1
North Arcot	..	..	1	1
Chingleput	1	..	..	1
South Arcot	2	..	..	2
Tanjore	1	2	2	5
Trichinopoly	1	..	..	1
Pudukkóttai	..	..	1	1
Madura	2	1	..	3
Tinnevelly	1	1	3	5
Salem	..	1	2	3
Coimbatore	1	1	2	4
Malabar	1	..	1	2
South Canara	..	1	..	1
Mysore	..	2	6	8
Coorg	2	1	..	3
Kathiawar	1	..	..	1
Goa	..	..	1	1
Total ..	15	12	20	47

6. Of the seven district scholarships in class I, five are filled by Collectors' nominees. The annexed table gives particulars :—

Names of students.	Districts.	Nominated by	Sections of the population.	Educational qualification.
1. S. Krishnasawmi Dikshadar ..	South Arcot ..	Collectors ..	Brahman	F.A.
2. G. Subbarayadu	Gódávari		Do.	Matriculation.
3. S. Ramachendra Chari	Cuddapah		Do.	Do.
4. Rajah Hari Haraputhra Pillai	Trichinopoly ..		Non-Brahman ..	Do.
5. C. V. Rajagopalachari ..	Anantapur		Brahman	F.A.
6. G. R. Chengalvaraya Mudali ..	Ganjám	Principal ..	Non-Brahman ..	Matriculation.
7. A. Seetharama Aiyar	Nilgiris		Brahman	Do.

7. The work of the college was conducted more or less on the same lines as during the two previous sessions with the exception that Surveying and Levelling in the first year and Agricultural Engineering in the second year were not introductory to the lectures in these subjects during the second and third year, respectively, but formed part of the regular instruction in the prescribed syllabuses. A certain amount of experience has now been gained in the working of the college curriculum, and I don't think the present arrangements are capable of much improvement. In my last report I gave my reasons for doing the various subjects in the order stated. The reasons hold good for the session under report. The order in which the different subjects were arranged is given below :—

First year.

Agriculture, Advanced, Part I (portion).
Inorganic Chemistry, Intermediate (portion).
Botany, Intermediate, Special (whole).
Physiography, Intermediate (whole).
Surveying and Levelling, Intermediate (portion).
Veterinary Science, Intermediate, Stage I (introductory to second year's work).

Second year.

Agriculture, Advanced, Part I (continued).
Do. do. Part II (portion).
Veterinary Science, Intermediate, Stage I (whole).
Inorganic Chemistry, Intermediate (completed).
Organic Chemistry, Intermediate (whole).
Surveying and Levelling, Intermediate (whole).
Agricultural Engineering, Intermediate (portion).

Third year.

Agriculture, Advanced, Part I (completed).
Do. do. Part II (completed).
Veterinary Science, Intermediate, Stage II (whole).
Agricultural Engineering, Intermediate (whole).

8. The following statement gives the number of lectures and of hours devoted to practical instruction during the session. The figures given do not include the time devoted to plot cultivation, excursions, quantitative analysis, &c. The statement is apt to convey a wrong impression of the work of the college, for an hour's lecture and an hour devoted to plan drawing are placed on exactly the same footing. In my last report I made the following remark :— "As experience has shown that different classes of men, doing the same subject under the same instructor, work at different speeds, a comparison between the figures of the session under report with those of previous sessions would serve no useful purpose." The remark holds good for the session now under report.

Subject.	Lectures.	Hours of practical instruction.	Remarks.
Class I.			
Agriculture, Advanced, Part I	60	101	
Botany, Intermediate, Special	107	74	Class usually taken in two batches.
Inorganic Chemistry, Intermediate ..	63	33	
Physiography, Intermediate	129	..	Some of the lectures were in reality practical classes. A few special classes were also held.
Veterinary Science, Intermediate, Stage I ..	59	..	Introductory to second year's work.
Surveying and Levelling, Intermediate ..	..	83	Excludes two half-days spent in the field.
Museum classes	..	26	
Class II.			
Agriculture, Advanced, Part I	61	38	Excludes plot cultivation.
Do. do. Part II	27	..	
Veterinary Science, Intermediate, Stage I ..	100	61	Twenty-eight of the lectures by the Superintendent, Civil Veterinary Department.
Inorganic Chemistry, Intermediate	66	53	
Organic Chemistry, Intermediate	87	25	
Surveying and Levelling, Intermediate ..	33	148	Excludes three days spent in the field.
Agricultural Engineering, Intermediate ..	43	14	Division between lectures and practical instruction is approximate.
Class III.			
Agriculture, Advanced, Part I	101	120	Excludes 23 days spent on agricultural excursions, of which seven days were occupied in travelling and resting, and the remaining sixteen days in work.
Do. do. Part II	79	24	Excludes hours in which the class worked in batches at oil-cake analysis, &c.
Agricultural Engineering, Intermediate ..	48	146	Division between lectures and practical instruction is approximate. Excludes two half-days spent on excursions.
Veterinary Science, Intermediate, Stage II.	94	108	Of the lectures, 29 were delivered by the Superintendent, Civil Veterinary Department. Of the hours of practical instruction, 36 were taken by the Superintendent, Civil Veterinary Department.
Museum classes	..	26	

9. *Practical work, Agriculture.*—In July the rainfall was deficient, and practical work was possible only to a limited extent. August to December was a favourable period for field work. Owing to a deficient north-east monsoon practical work ceased earlier than it would have done in a favourable year.

Class I was instructed in ploughing and other field operations. A portion of field No. 1 was reserved for the practical instruction of the class when nothing could be done on the remainder of the farm. Field and Museum classes were also held.

The practical work of class II consisted chiefly of "plot cultivation." I am not in favour of continuing this portion of the prescribed work, as it hampers the whole of the arrangements during the second year and the men follow a system of agriculture, suitable only to very small areas. I shall address you separately on the subject and shall propose "field cultivation" instead of "plot cultivation." The usual field classes were held.

Class III made two agricultural excursions under the supervision of M.R.Ry. R. Ramaswami Aiyar, sub. *pro tem.* Fourth Assistant. The first excursion was made during October to the Anantapur district and the second during January to the Coimbatore district. The charges incurred were as follows:—

Anantapur Excursion.

	Rs.	A.	P.
Assistant	38	2	0
Students and peon	104	9	6
Total ...	142	11	6

Coimbatore Excursion.

	Rs.	A.	P.
Assistant	52	10	0
Students and peon	134	15	0
Total ...	187	9	0

Field and Museum classes were also held.

As practical work in connection with Part II of the agriculture, advanced syllabus, class III, performed the proximate analysis of an oil-cake. As a preliminary to this, the class went through the processes of standardising acid and alkaline solutions. It is to be regretted, however, that the class failed to answer the simple question on this subject which was set in the third paper on Agriculture. The class also learnt the method of analysing jaggery and sugarcane juice.

It is due to the students of the class III that I should state that their attainments in Practical Agriculture were above the average. Whether the results of the examination in Practical Agriculture will be favourable or not, it is impossible to say, but if the examination is meant to reflect the opinion of the staff, the results should be better than usual.

Veterinary.—The practical work of class II consisted chiefly of dissections; that of class III of ordinary hospital practice. During the outbreak of foot-and-mouth disease, which occurred on the farm during November last, the students took turns in tending the animals.

Other subjects.—The practical work in other subjects is prescribed in detail in the various syllabuses, and the method of going through the work does not admit of variation. No special remarks are therefore necessary.

10. At the Government Technical Examinations held in April last, the college presented the following candidates:—

Agriculture, Advanced	17
Veterinary Science, Intermediate, Part I	16
Do. do. Part II	13
Inorganic Chemistry, Intermediate	15
Organic Chemistry, Intermediate	23
Botany, Intermediate, Special	15
Physiography, Intermediate	21
Surveying and Levelling, Intermediate	13
Agricultural Engineering, Intermediate	12

11. During the session the new library catalogue, which was prepared during the previous session, was printed and issued. Its chief feature is that many books, which in the former catalogue were put down as "Reference books" (books which cannot be taken out of the library), now appear as "Issue books" (books which can be taken out). This explains the large increase in the number of books taken out during the session by students. As directed in the concluding portion of paragraph 3 of Proceedings, No. 8655-A, dated 12th September 1894, information is furnished in the accompanying statement of the number of volumes in the library. Its general condition is satisfactory:—

Description.	Number of books.
Agriculture	749
Botany	60
Gardening	24
Forestry	36
Economic entomology	41
Zoology	51
Veterinary science...	126
General science	70
Chemistry	41
Physics	11
Geology	56
Physiography	62
Mathematics	44
Surveying	11
Engineering	58
General literature	109
Miscellaneous reports	111
Total ...	1,660

The annexed statement shows the number of books taken out by the staff and students from the library. The statement includes only those books removed from the library. It does not include books consulted in the library:—

Books.	Number taken out by staff.	Number taken out by students.
Agriculture	128	215
Veterinary science	34	129
Botany, &c.	29	65
Chemistry, Physiography, Geology, Physics	22	180
Surveying, Engineering	16	34
Economic entomology	5	...
Miscellaneous reports	2	6
General science	12	37
General literature	13	73
Total ...	261	739

12. The annexed statement shows how the passed students of the College are employed. Nothing is known for certain about 25 ex-students. Most of them are resident, if alive, outside the Madras Presidency and it is difficult to trace them. The list of deceased ex-students contains for the first time the name of M.R.Ry. M. Narayana Rao, Deputy Superintendent, Civil Veterinary Department, who died at the General Hospital on the 11th May 1894. He belonged to the first batch of students who joined the College and for many years served as Veterinary Assistant of this institution:—

Occupation.	Number of students.
Farming and coffee-planting	23
Superintendents of Farms and Gardens	11
Private Veterinary practice	1
Agricultural Implement and Cotton Trade	1
Employed at the College of Agriculture	7

Occupation.	Number of students.
Teachers of Agriculture	4
Employed in the Agricultural Department { Bombay 1, Madras 5, Native States 10 } ...	16
Employed in the Civil Veterinary Department	13
Revenue Inspectors	38
Employed in the Forest Department { Madras Government 23, Native States 17 } ...	40
Employed by Government in other posts	84
Employed by local bodies	12
Employed by Native States in other posts than Agriculture or Forests.	23
Barristers, Pleaders and Merchants	9
Resident outside India	7
Unemployed	16
No answers received	25
Sub-Magistrates	3
Dead	22
Total ...	355

13. Classes I and III underwent gymnastic instruction. Class II, as in previous sessions, was exempted from gymnasties owing to press of out-door work.

The athletic club as usual looked after the requirements of the students in cricket, tennis and foot-ball. Tennis seems to be the favourite recreation of the majority of men here. Towards the close of the session a boat was purchased and a Boat Club formed. Nearly every afternoon in March and April the boat was out on the river and appeared to give its occupants a good deal of exercise in a very short time.

The athletic sports of the College were held on Saturday, 16th February 1895, in the presence of a fairly large assembly. The Honourable Mr. Justice Best was kind enough to distribute the prizes. By permission of the Commanding Officer and Officers the Band of the 27th Madras Infantry played a selection of music during the sports. A Native Band was also in attendance.

14. The Agricultural Students' Association held seven meetings, at which papers dealing with agricultural questions were read and discussed. A paper on "Tobacco cultivation" contributed by student M. Paramaswara Aiyar of Class III was printed and circulated among the members. The anniversary meeting of the Association was held on Thursday, 2nd May 1895, on a more extended scale than usual, the meeting being preceded by refreshments and succeeded by a musical party.

15. From July to December the Farm hostel was under the management of a contractor, who did not give complete satisfaction and left at the end of the year. In January and February there was no hostel on the Farm, but on 1st March a hostel was opened under the management of a committee of students with an assistant of the College as chairman and another assistant as treasurer. The number of students on the 1st April messing in the hostel was 17. The same number of Teachers' College students was allowed to join. Referring to your remark in paragraph 3 of the review of my last report, I beg to state that I have not noticed any difference in health between students messing in the hostel and those living in the village of Saidapet.

16. *Financial statement.*—The statement appended to the report shows an expenditure, including Farm and Veterinary hospital, but excluding scholarships, of Rs. 34,424–5–4 against Rs. 32,224–11–5 for 1893–94. The receipts amounted to Rs. 4,961–13–11 against Rs. 4,625–5–6 during the previous year.

17. *The Farm.*—The report is, as usual, for the financial year. The season was irregular, the rainfall being not only deficient but badly distributed. The south-west monsoon was very late in bringing rain, while the north-east monsoon ceased earlier than usual.

The rainfall statement is annexed. In this connection I beg to state that the average rainfall was incorrectly given in my last report. It should have been 51·92 inches and not 51·22 inches:—

STATEMENT showing the monthly rainfall registered at the College Farm, Saidapet.

Months.	Actual rainfall, 1894–95.	Average rainfall collected at Saidapet during the previous 24 years.
	INCHES.	INCHES.
April 1894	0·97	0·27
May ,, ...	...	2·31
June ,, ...	0·36	2·63
July ,, ...	2·02	4·17
August 1894	10·68	4·81
September ,, ...	5·79	5·32
October ,, ...	10·58	11·24
November ,, ...	12·71	14·42
December ,, ...	0·46	5·43
January 1895	...	0·47
February ,, ...	...	0·47
March ,, ...	...	0·29
Total ...	43·57	51·83

18. The net cost of the Farm annexe was Rs. 859–12–8 against Rs. 1,309–7–5 during the previous year. The outbreak of foot-and-mouth disease, which occurred in November and December, occasioned a good deal of extra expenditure in the shape of cattle food and hire of animals to go on with the Farm work. The season too was not favourable and of course farming operations for profit are considerably hampered by the Farm being attached to the College for educational purposes. Under these circumstances, I think M.R.Ry. R. Ramaswami Iyer, 4th Assistant, and M.R.Ry. J. Chelvaranga Raju, Bailiff, who are chiefly concerned in the management of the Farm, can be said to have done well.

	RS. A. P.	RS. A. P.
Farm Receipts		
Field produce		1,354 8 9
Live-stock—		
Sale of cows, calves, sheep, &c.	510 0 0	
Sale of milk, butter, ghee, &c.	939 5 10	
Covering fees	80 0 0	
		1,529 5 10
Miscellaneous		692 2 4
Total ...		3,576 0 11
Farm Charges.		
Cattle food—		
Ground-nut cake, &c.	890 15 1	
Dholl husk	304 10 0	
Wheat bran	175 1 3	
Salt	38 0 0	
Paddy straw	124 13 7	
Rice, ragi, &c.	15 12 0	
		1,549 3 11
Manure		9 13 0
Seeds and plants		126 9 7
Cooly labour		2,248 2 6
Machines, implements, &c.		209 10 9
Workshop		42 8 7
Estate improvements		67 7 0
Contingencies		74 11 7
Live-stock		107 10 8
Total ...		4,435 13 7

19. The following statement gives the cropping of the Farm:—

STATEMENT showing cropping of the College Farm for 1894–95.

Number of fields.	Area in acres.	Crop.	When sown.	When harvested.	Total cost of cultivation.	Total yield.		Yield per acre.				Remarks.
						Grain in Madras measures.	Straw, hay or green fodder in tons.	Grain in Madras measures.	Value.	Straw, hay or green fodder in tons.	Value.	
	Acs.				Rs. A. P.				Rs. A. P.		Rs. A. P.	
	West .. .. 3·50											Set apart for practical work of students.
1.	East (North) .. 1·75	Horsegram	1st November 1894	28th February 1895	13 14 0	370	*Nil.*	246⅔	17 9 11	*Nil.*	..	Grain sold at 14 measures a rupee.
	„ (South) .. 1·75	Blackgram	2nd „ „	29th January „	12 2 0	144	*Nil.*	96	12 0 0	*Nil.*	..	Do. at 8 do. do.
	West .. .. 2·56	Varagu and dholl	19th September „	Varagu on 1st March 1895, dholl still in field.	33 15 0	256 (of varagu).	2½ (straw).	100	2 13 6	·98	3 6 8	Grain valued at 38 measures a rupee and straw at Rs. 3–8–0 a ton.
2.	East .. .. 2·50	Guinea grass	10th and 11th March 1893 ..	Various	121 14 0	*Nil.*	13·80 (green fodder).	*Nil.*	..	5·52	61 13 2	Green fodder valued at 200 lb. a rupee.
3.	.. .. .. 3·80	Yellow cholum for hay	3rd August 1894	15th October 1894	20 6 6	*Nil.*	4·5 (hay).	*Nil.*	..	1·18	17 11 2	Hay valued at Rs 15 a ton.
		1st crop cumbu for hay	6th July „	12th September „	13 2 0	*Nil.*	3·5 (hay).	*Nil.*	..	1·84	18 6 5	Do. at Rs. 10 do.
4.	.. .. .. 1·90	2nd „ yellow cholum for hay	10th October „	6th February 1895	22 9 0	*Nil.*	3 (hay).	*Nil.*	..	1·58	23 11 2	Do. at Rs. 15 do.
		1st „ horsegram for hay	4th July „	1st October 1894	13 4 0	*Nil.*	2 (hay).	*Nil.*	..	1·11	16 10 5	Do. at Rs. 15 do.
5.	.. .. .. 1·80	2nd „ white cholum for hay	29th October „	28th January 1895	9 0 0	*Nil.*	1·8 (hay).	*Nil.*	..	1·0	15 0 0	Do. at Rs. 15 do.
		1st „ ragi	Transplanted, 6th May 1894 ..	31st August 1894	45 11 6	850	4 (straw).	531¼	29 8 3	2·5	20 0 0	Grain sold 18 measures a rupee and straw valued Rs. 8 a ton.
6.	.. .. .. 1·60	2nd „ white cholum	30th October 1894	11th March 1895	19 9 3	424	4 (straw).	265	18 14 10	2·5	20 0 0	Do. valued 14 measures a rupee and straw valued Rs. 8 a ton.
		1st „ Gingelly	26th June „	4th October 1894	10 15 0	80	*Nil.*	40	3 8 0	*Nil.*	..	Poor return owing to flowers being washed off by heavy rain in August. Quality of outturn very inferior. Sold at 10⅔ measures a rupee.
7.	West .. .. 1·00	2nd „ sea, island cotton and castor's horse-tooth maize.	23rd November „	Maize on 19th March 1895, cotton still in field.	30 0 0	600 cobs.	¼ (straw).	600 cobs.	9 6 0	·25	2 0 0	Sown on ridges, one of cotton and two of maize alternating. Sown late owing to late arrival of seeds from England. Cobs valued at 3 pies each and straw at Rs. 8 a ton.
	East .. .. 1·00	Do. Sutton's yellow variety of maize (half for seed and half for green fodder).	5th December „ ..	31st January 1895	18 3 6	540 cobs.	⅓ (green fodder).	*Nil.*	..	⅔	10 0 0	Green fodder valued at Rs. 15 a ton.
				19th March „			⅕ (straw).	*1,080 cobs.	16 14 0	⅔	3 3 2	Cobs and straw valued at 3 pies each and Rs. 8 a ton, respectively.
8.	.. .. .. 2·70	Castor and ragi	4th November „	.. .. ..	..	..	..	..	..	..	..	Crop failed. No. 8 is a very difficult field to cultivate and it is much exposed to trespass.
		1st crop yellow cholum for hay ..	4th August „	3rd November 1894	13 0 0	*Nil.*	2½ (hay).	*Nil.*	..	2·19	32 13 7	Hay valued at Rs. 15 per ton.
9.	.. .. .. 1·14	2nd „ indigo	5th February 1895	Crop standing in field	34 7 6	..	..	..	..	..	..	....
		1st „ yellow cholum for fodder ..	19th April 1894	2nd July 1894	33 1 0	*Nil.*	3·57 (green fodder).	*Nil.*	..	3·20	35 2 8	Green fodder valued 200 lb. a rupee. ....
		2nd „ groundnut	21st August „	23rd March 1895	44 6 0	800 lb.	*Nil.*	714·3 lb.	20 11 5	*Nil.*	..	Yield stated is the weight after deducting the quantity given for picking (about three-eighths of yield). Sold at Rs 14–8–0 a candy of 500 lb.
10.	.. .. .. 1·12	1st „ „	17th „ „	14th March „	66 4 9	1,200 lb.	*Nil.*	706 lb.	20 7 8	*Nil.*	..	
	North .. .. 1·70	2nd „ yellow cholum for fodder ..	16th March 1895	Not yet harvested	21 5 0	..	..	..	..	..	..	Sutton's white variety of maize also sown but seeds failed to germinate.
11.	South .. .. ·50	Plantains	1st July 1892	Standing	8 11 0	..	..	..	..	..	..	....
	Plots .. .. ·3	....		..	..	..	..	..	..	..	..	Reserved for plot cultivation.
	West .. .. 1·00	Yellow cholum for hay	20th April 1894	4th June 1894	26 14 6	*Nil.*	2·23 (hay).	*Nil.*	..	2·23	33 7 2	Hay valued at Rs. 15 a ton.
12.	East .. .. 2·00	1st crop ragi	Transplanted, 31st May 1894 ..	28th August 1894	94 9 0	1,614	5 (straw).	807	28 2 6	2·5	20 0 0	Grain valued at 18 measures a rupee and straw at Rs. 8 a ton.
		2nd „ yellow cholum	11th October 1894	20th February 1895	29 8 0	468	4·25 (straw).	234	14 10 0	2½	17 0 0	Do. at 16 do. do. do. do.
13.	.. .. .. ·30	Wheat (Coimbatore)	7th December „	17th March 1895	20 10 0	84	⅓ (straw).	280	17 8 0	⅔	2 8 0	Do. at 16 do. do. do. at Rs. 3 a ton.
		1st crop white car	10th January „	4th May 1894	82 5 6	2,292	3 (straw).	848·88	37 2 3	1·11	11 10 6	Grain sold 22⅔ measures a rupee and straw valued at Rs. 10–8–0 a ton.
	A. .. .. 2·70	2nd „ sixty days' samba	24th May „	28th August 1894	75 0 0	2,240	2½ (straw).	829·63	36 4 9	·93	9 12 3	Do. do. do. do. do.
		3rd „ „ „	23rd January 1895	Standing	..	..	..	..	..	..	..	....
14.		Sugarcane	18th August 1894	Do.	..	..	..	..	..	..	..	....
	B. .. .. ·75	Chillies	26th January 1895	Do.	..	..	..	..	..	..	..	....
		Maize	12th December 1894	23rd March 1895	3 2 0	200 cobs.	¹⁄₁₀ (straw).	1,000 cobs.	15 10 0	·5	4 0 0	Cobs and straw as before.
		Sixty days' samba (broadcast) ..	15th September 1894	4th January 1895	13 4 0	80	½ (straw).	160	7 0 0	·5	5 4 0	Grain sold 22⅔ measures a rupee and straw valued at Rs. 10–8–0 a ton.
16.	.. .. .. 5·00	Pisini dry variety (drilled)	14th „ „	4th „ „	42 4 0	1,196	3⅔ (straw).	299	13 12 4	·94	9 13 6	Do. 21½ do. do. do. do.
		Chinna samba (broadcast)	15th „ „	25th „ „	10 8 0	552	1 (straw).	1,104	53 10 8	2	21 0 0	Do. 20¾ do. do. do. do.
		Horsegram	9th November „	23rd February „	10 6 0	..	..	..	..	..	..	Crop failed.
17.	.. .. .. 3·00	Greengram	10th „ „	21st „ „	5 3 0	64	*Nil.*	64	8 0 0	*Nil.*	..	Grain sold 8 measures a rupee.
		Ragi (on ·25 acres only)	Transplanted, 16th June 1894 ..	1st September 1894	13 7 9	108	¼ (straw).	432	24 0 0	1½	10 10 8	Grain sold 18 measures a rupee and straw valued Rs. 8 per ton.
		Sirumani (on 1·0 acre)	Do. 25th October 1894.	26th February 1895	52 0 6	1,152	2 (straw).	1,152	59 4 8	2	21 0 0	Do. 19⅔ do. do. do. Rs. 10–8–0 a ton.
18.	.. ..	Do. (broadcasted)	10th September 1894	9th „ „	36 1 6	1,008	1·5 (straw).	1,008	51 14 1	1·5	15 12 0	Do. do. do. do. do.
		1st crop ragi	Transplanted, 16th June 1894 ..	4th September 1894	48 13 3	284	1 (straw).	378⅔	21 0 7	1⅓	10 10 8	Grain sold at 18 measures a rupee and straw valued Rs. 8 a ton.
		1st „ cholum for fodder	19th April 1894	Various	22 0 0	*Nil.*	2·12 (green fodder).	*Nil.*	..	2·49	27 14 5	Green fodder valued at 200 lb. a rupee.
20.	.. .. .. 1·60	2nd „ sirumani, transplanted ..	23rd October 1894	26th February 1895	79 7 0	2,016	2·5 (straw).	1,260	64 10 8	1·56	16 6 6	Grain sold at 19⅔ measures a rupee and straw valued Rs. 10–8–0 a ton.
		1st „ yellow cholum for hay ..	27th January „	Various	26 6 6	*Nil.*	1 (hay).	*Nil.*	..	1·	15 0 0	Hay valued Rs. 15 a ton.
21.	.. .. .. 1·00	2nd „ white car (on bed dry) ..	25th August „	29th December 1894	31 0 3	488	1·5 (straw).	488	23 11 7	1·5	15 12 0	Grain sold at 20½ measures a rupee and straw valued at Rs. 10–8–0 a ton.
22.	.. .. .. 4·25	Sirumani (broadcasted)	13th September 1894	11th February 1895	70 1 6	3,120	6⅔ (straw).	734·11	37 12 7	1·5	15 12 0	Do. at 19⅔ do. do. do. do.
	.. .. .. 3·0 App.	Yellow cholum for fodder	21st „ „	Various	13 4 0	..	3·15 (green fodder).	*Nil.*	..	1·05	11 12 10	Green fodder valued at 200 lb. a rupee.
	·50 App.	Chinna samba	6th „ „	22nd January 1895	13 14 0	160	⅓ (straw).	320	15 8 11	1·	10 8 0	Grain sold 20½ measures a rupee and straw at Rs. 10–8–0 a ton.
	1·00 „	Vadan samba	6th „ „	22nd „ „	32 9 6	528	1⅓ (straw).	528	25 10 8	1·5	15 12 0	Do. do. do. do. do. do.
2·30	0·50 „	Pisini	12th „ „	2nd „ „	15 5 0	260	½ (straw).	520	25 4 5	1·	15 12 0	Do. do. do. do. do. do.
	0·30 „	Neelan samba	12th „ „	8th February „	13 5 0	208	¼ (straw).	693⅓	33 11 3	⅔	8 12 0	Do. do. do. do. do. do.

20. There was a slight decrease in total amount of milk obtained, which can be explained by the fact that every cow in the herd was attacked by foot-and-mouth disease in November and December, and of course in these months there was great diminution in the yield. The daily average increased from 9·06 lb. to 9·40 lb. As I remarked in my last report, I do not attach much importance to these averages.

Name of cow.	Age.	Yield in 1894–95.		Number of days cow yielded.	Average.
		Madras Measures of 100 cubic inches.	Pounds.		
1. Kalyanee	11 years ..	58·00	216·34	53	1·09
2. Subbammah	14 „ ..	551·38	2,056·63	223	2·47
3. Meenakshi No. II	6 „ ..	582·25	2,171·79	230	2·53
4. Narayanee	7 „ ..	839·50	3,131·34	365	2·30
5. Tara	6 „ ..	955·63	3,564·48	348	2·75
6. Seetha	5 „ ..	586·50	2,187·65	247	2·37
7. Kamakshi	13 „ ..	301·63	1,125·06	117	2·58
8. Kali No. II.	8 „ ..	595·50	2,221·22	234	2·54
9. Meenakshi	14 „ ..	649·13	2,421·24	224	2·90
10. Sahib's cow	11 „ ..	506·13	1,887·85	192	2·64
11. Swarnam	5 „ ..	147·75	551·11	64	2·31
12. Kamalam	5 „ ..	80·00	298·40	30	2·67
	Total ..	5,853·38	21,833·11	2,327	..

The daily average per head for the whole herd $= \frac{5,853·38}{2,327} = 2·52$ Madras Measures $= 9·40$ lb.

21. As will be seen from the annexed statement, the value of the live-stock on the farm decreased by Rs 751. In my last report I pointed out that the farm was overstocked. During the year under report live-stock to the value of Rs. 510 was sold off and the farm may now be said to carry a reasonable number of cattle and sheep.

STATEMENT showing the number and value of stock at the commencement and end of the year 1894–95.

Description.	Commencement.		End.	
	Number of animals.	Value.	Number of animals.	Value.
		Rs.		Rs.
1. Cows	13	985	10	855
2. Heifers	6	160	4	140
3. Heifer calves	4	37	6	66
4. Bulls	13	1,475	11	935
5. Bullocks	7	457	6	430
6. Bull calves	5	95	3	35
Sheep.				
1. Rams	5	50	7	50
2. Ewes	16	80	21	84
3. Gimmers	4	12	1	3
4. Lambs	19	19	21	21
	..	3,370	..	2,619

22. The following statements give the information usually supplied regarding the live-stock of the farm :—

	Rs.	A.	P.
Value of labour to be charged against stock	225	0	0
Value of farm-grown fodder consumed by stock	689	12	5

Value of services rendered by live-stock on the farm :—

		RS.	A.	P.			RS.	A.	P.
Field No. 1	...	29	8	0	Field No. 13 ...	...	0	12	0
,, ,, 2	...	20	5	0	,, ,, 14 ...	...	67	2	0
,, ,, 3	...	13	8	0	,, ,, 16 ...	...	24	6	0
,, ,, 4	...	14	4	0	,, ,, 17 ...	...	25	14	0
,, ,, 5	...	11	4	0	,, ,, 18 ...	...	24	0	0
,, ,, 6	...	45	5	0	,, ,, 20 ...	...	36	6	0
,, ,, 7	...	27	6	6	,, ,, 21 ...	...	15	6	0
,, ,, 8	...	11	10	0	,, ,, 22 ...	...	17	10	0
,, ,, 9	...	32	11	6	,, ,, 25 ...	...	5	4	0
,, ,, 10	...	41	7	6	,, ,, 26 ...	...	19	8	0
,, ,, 11	...	39	8	0					
,, ,, 12	...	91	15	0		Total	615	0	6

120 tons of farm-yard manure, valued at Rs. 180, were obtained.

Bull service.—160 outside cows and 11 farm cows were served.

Value of service rendered by live-stock to College, Botanical Gardens, &c., Rs. 180.

23. *Botanical Gardens.*—The gardens were maintained in proper order. The plots in the upper terrace were utilized for growing specimens of the crops of the Presidency. The gardens cost Rs. 112 more than they did during the previous year. The excess cost is chiefly represented by additional cooly labour.

24. *Veterinary Hospital.*—The total number of patients rose from 345 to 446. The expenditure (including establishment) and income were Rs. 1,175–3–8 and Rs. 531–7–6, respectively, the corresponding figures for the previous year being Rupees 1,070–2–8 and Rs. 496–13–11. A letter from Mr. D'Silva and the usual tabular statement are appended to the report.

25. The service books of the establishment have been written up to date.

26. In conclusion, I desire to acknowledge the services of the Assistants and other officers of the college.

—

ENCLOSURE.

From S. L. D'SILVA, Esq., Second Assistant Sub. *pro. tem.*, in charge of the Government Veterinary Hospital, Saidapet, to the Acting Principal, College of Agriculture, dated Saidapet, 30th April 1895.

I beg to submit herewith a statement, in the usual form, of the cases treated at the Veterinary hospital during the year ending 31st March 1895.

It will be seen from the statement that there was an increase under each heading in the number of cases treated during the year. The increase is especially notable in the case of cattle patients, whose number rose from 119 in 1893–94 to 167 in 1894–95. This increase, however, was partly due to an outbreak of foot-and-mouth disease on the farm in November last, when 31 head of cattle were attacked and treated.

The castration operations conducted at the hospital during the year under report seem to establish the noteworthy fact that bulls can stand the improved methods of castration just as well as, if not better than, horses. Three bulls were castrated by the actual cautery, and the results were highly satisfactory. There was no bleeding after the operation, and no other untoward consequences of any kind were noticed. The popular notion that method of castration other than "mulling" do not quite suit bulls is not borne out by these results.

STATEMENT showing the principal classes of diseases treated at the Government Veterinary hospital, Saidapet, during 1894–95.

Class of disease.	Horses and ponies.		Bulls and bullocks.		Cows and heifers.		Other animals.		Total.	
	Treated.	Died.	Treated.	Died.	Treated.	Died.	Treated.	Died.	Treated.	Died.
Non-specific blood diseases	23	..	9	..	2	..	20	2	54	2
Specific blood diseases	7	1	21	..	14	..	10	..	52	1
Diseases of the digestive organs	16	..	10	..	1	1	30	2	57	3
Do. of the biliary apparatus	4	1	1	..	..	..	7	1	10	2
Do. of the respiratory organs	22	..	4	..	1	..	5	1	34	1
Do. of the urinary system	1	..	..	..	..	..	..	..	1	..
Do. of the skin	6	..	2	..	..	..	16	..	24	..
Do. of the foot	20	..	1	..	1	..	..	..	22	..
Do. of the eye	3	..	4	..	2	1	4	..	13	1
Do. of the ear	..	..	..	..	..	..	6	..	6	..
Do. of the lactiferous organs	..	..	..	..	2	..	..	..	2	..
Do. of the generative organs	..	..	..	..	3	..	4	..	7	..
Do. of the nervous system	2	1	..	..	..	..	1	1	3	2
Injuries and diseases of bones	4	..	5	1	1	..	2	..	11	1
Injuries and diseases of ligaments, tendons and muscles	23	..	12	..	..	..	..	...	36	..
Surgical conditions, wounds, tumours, &c.	29	1	58	2	13	..	14	2	114	5
Total	160	4	127	3	40	2	119	9	446	18

—

	Budget estimate for 1894–95.	Expenditure. 1893–94.	Expenditure. 1894–95.
	RS.	RS. A. P.	RS. A. P.
Principal	13,800	10,759 5 4	† 11,907 14 1
Masters and Teachers	9,834	8,198 2 1	9,166 6 10
Establishment	2,330	2,305 14 1	2,337 3 2
Ordinary contingencies	950	899 14 6	943 13 7
Service postage	100	45 0 0	50 0 0
Service telegram		1 8 0	5 14 0
Rents, rates and taxes	70	78 10 0	69 12 0
Scholarships *	..	..	..
Travelling allowances	700	598 11 0	703 5 0
Library and prize allowances	350	158 11 0	214 4 8
Laboratory charges	250	75 6 8	107 7 3
Furniture, apparatus and live-stock	1,200	745 1 1	257 2 6
Farm annexé	4,500	4,500 14 0	4,435 13 7
Botanical gardens	1,000	797 15 3	909 0 9
Petty construction and repairs	1,550	1,613 12 10	1,548 5 11
Payments made through the Accountant-General's office for periodicals, stores, &c.	..	343 2 11	592 10 4
Public Works Workshops adjustments	..	52 8 0	..
Veterinary Hospital charges.			
Establishment	816	816 0 0	815 8 0
Contingencies	1,184	254 2 8	359 11 8
Total	38,634	32,244 11 5	34,424 5 4
Receipts.			
College of Agriculture	..	4,128 7 7	‡ 4,430 6 5
Veterinary hospital	..	496 13 11	531 7 6
Total	..	4,625 5 6	4,961 13 11

* Rs. 3,407–9–2 under this head are to be charged against separate provision in the educational budget.
† Includes Rs. 1,700–12–6, being exchange compensation allowance.

	RS.	A.	P.
‡ Farm	3,576	0	11
Fees	600	0	0
Rent and miscellaneous	254	5	6

No. 579.

Referred to the Commissioner of Land Records and Agriculture for favour of remarks and early return.

16th May 1895. (Signed) D. DUNCAN,
Director of Public Instruction.

Resolution—dated 19th June 1895, No. 169.

Government in its Order No. 759, Educational, dated 8th October 1894, having directed that the report on the college should only deal with matters that have occurred during the official year, the Board will proceed to review the work of the college without awaiting the results of the examinations held in April last.

2. The orders of Government regarding the reorganisation of the college, and granting a recognition, so far as employment in the public service is concerned, to persons who obtain the Agricultural diploma, were received too late in the year to have any influence on the recruitment of students for the class formed in July 1894. They had the effect however of increasing the number of students in the college from 41 to 47, as several students rejoined the senior class with a view to completing the tests for the Agriculture diploma. A proposal made by Government to institute a special course in Agriculture as a training for Revenue Inspectors was under discussion during the year, but no final decision on the subject was arrived at.

3. The curriculum adopted in the college underwent no alteration, and the Principal does not think that it can be improved. The Board in its Proceedings, No. 33 of 1895, drew special attention to what it considered to be the undue amount of time devoted to the teaching of Surveying and Levelling and Agricultural Engineering (subjects which are only indirectly connected with Agriculture), and suggested that the courses in these subjects might be reconsidered. The Government has recently directed that a Committee should be formed to consider the matter.

4. The cost of the college during the year, excluding the farm, garden and hospital, amounted to Rs. 27,904–3–4 against Rs. 25,875–11–6 in 1893–94; the bulk of the increase occurring under charges for staff, although no steps have yet been taken to fill up the post of Vice-Principal.

5. The Government, in its order, dated 10th August 1894, No. 587, Revenue, determined to open a class in connection with the college in which instruction in Veterinary Science up to the intermediate standard should be given, and sanctioned the appointment of a special Veterinary Assistant, under the Civil Veterinary Department, to carry on the work, but the approval of the Government of India to the appointment was not received during the year.

6. The success of the operations on the college farm was to a certain extent marred by an untimely and deficient rainfall, whilst the farm stock suffered from an outbreak of foot-and-mouth disease. The subjoined table summarises the results obtained from the crops grown. Some of the yields are fair. In another year, the Principal should, the Board suggests, be requested to report all yields in pounds for grain and the like, yields of fodder and straw being returned in tons as at present.

Crops.	Area sown.	Outturn.				Remarks.
		Grain or seed.		Straw or fodder.		
		Amount.	Per acre.	Amount.	Per acre.	
Cereals.	ACS.	MEASURES.	MEASURES.	TONS	TONS.	
Paddy	21·55	15,300	710	27·125	1·21	2·70 acres standing.
Wheat (Coimbatore)	·30	84	280	·25	·83	
Ragi	4·60	2,256	490	10·33	2·25	
Cholum	3·60	892	248	8·25	2·29	
Varagu and dholl	2·56	256	100	2·50	·98	Dholl standing.
		(Cobs.)				
Maize	1·37	1,340	978	·55	·40	Cotton sown with maize standing on ·33 acres.
Caster and ragi	2·70	Failed.				

Crops.	Area sown.	Outturn.				Remarks.
		Grain or seed.		Straw or fodder.		
		Amount.	Per acre.	Amount.	Per acre.	
Pulses.	ACS.	MEASURES.	MEASURES.	TONS.	TONS.	
Horse-gram	1·75	370	211	..	..	Crop on 2 acres failed.
Black-gram	1·75	144	82	..	..	
Green-gram	1·00	64	64	..	..	
Industrial.						
Sugarcane	·40	..	..	..	..	Crop standing.
Indigo	1·14	..	..	..	..	
Gingelly	2·00	80	40	..	..	
Ground-nuts	2·82	2,000 lb.	709	..	..	
Fodder.				*Green fodder.*		
Guinea grass	2·50	..	..	13·80	5·52	
Maize	·50	..	..	·33	·67	
Cholum (green)	4·97	..	..	8·84	1·78	1·70 acres not harvested.
Cholum (dry)	10·64	..	..	15·03	1·41	
				Dry fodder.		
Cumbu	1·90	..	..	3·50	1·84	
Horse-gram	1·80	..	..	2·00	1·11	
Sundries.						
Plantains	·50	..	..	..	..	Standing.
Chillies	·15	..	..	..	..	

7. Owing to the outbreak of foot-and-mouth disease, the yield of milk obtained from the dairy herd fell off slightly, although the daily average yield per head increased. It is not clear whether the record was made by weight, or only calculated to weights for the purposes of the report.

The Principal has wisely reduced the stock kept on the farm, which was previously excessive.

The number of cows brought for service by the bulls kept on the farm showed a satisfactory increase.

8. The number of patients treated in the Veterinary hospital showed a material increase, part of which was due to the outbreak of disease on the farm in November 1894.

(True Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Director of Public Instruction, with the original report returned.
Copy to all Collectors.
,, the Superintendent, Civil Veterinary Department.

Read the following letter from the Acting Principal, Madras College of Agriculture, to the Director of Public Instruction, dated Saidapet, 15th July 1895, No. 422:—

I have the honour to submit the report of the Superintendent, Civil Veterinary Department, on the work carried on by him at this College during the session 1894–95. I have no remarks to make, as I concur in those contained in the report. I should, however, like to take this opportunity of acknowledging the great advantage derived by the College from the connection with it of Veterinary-Lieutenants Turnbull and Harris.

From the Superintendent, Civil Veterinary Department, Madras Presidency, to the Principal, Government Agricultural College, Saidapet, dated Chepauk, 1st July 1895, No. 519.

I have the honour to submit, herewith, a report of the work carried out by the Superintendent, Civil Veterinary Department, at the Government Agricultural College during the official year ending the 31st March 1895.

The late Superintendent, Veterinary-Lieutenant Turnbull, lectured from July to September 1894, and during that period his work was as under :—

Class II, Physiology.—Eleven lectures of one hour each.

Class III, Veterinary Medicine and Surgery, theoretical.—Eleven lectures of one hour each.

Class III, Veterinary Medicine and Surgery, practical.—Nine lectures of 1½ hours each.

In the practical portion of the curriculum, he was assisted by Mr. S. L. D'Silva, Second Assistant.

He held one examination for each class on the portions done at the end of the period of study.

I took charge of the Office of Superintendent, Civil Veterinary Department, on the 30th November 1894.

I delivered the undermentioned lectures from the 22nd January to the 28th March 1895:—

Class II, Physiology.—Eighteen lectures of one hour each.

Class III, Veterinary Medicine and Surgery, theoretical.—Eighteen lectures of one hour each.

Class III, Veterinary Medicine and Surgery, practical.—Thirteen lectures of 1½ hours each.

In the practical portion of the curriculum, I was ably assisted by Mr. S. L. D'Silva, Second Assistant.

With regard to the theoretical portion of my course, I consider the men of my class were exceedingly well up in their work. This fact is praiseworthy, as students had worked under great disadvantages during the year, having their course of lectures broken up for a lengthy period owing to my predecessor's (Veterinary-Lieutenant Turnbull) transfer to the North Punjab

Practically, I found that men were able to perform simple operations satisfactorily. They are called on for no more. Their weakness lies in their inability to handle animals with skill. This point shall be given more attention and corrected during the current year.

I would, in conclusion, compliment Mr. S. L. D'Silva, Second Assistant, on his work during my term of office.

Introduction.—The year was memorable in the annals of the College. The state of suspense in which the College had worked for several sessions was at length removed by Government passing final orders on the College curriculum and other kindred matters long pending. Government raised the value of the diploma in Agriculture by opening the Revenue and Judicial Higher tests to men who have obtained it, even though they have passed only the Matriculation Examination, which the Government recognized as the minimum general education qualification for admission into the College. The Director trusts that the College will be better recruited in future in consequence of the above concession.

2. *Staff.*—No steps were taken to fill the post of Vice-Principal. M.R.Ry. C. Krishna Menon, Fourth Assistant, went to England on a year's leave on forfeiture of pay with a view to improve his qualifications, and on the recommendation of Government the Secretary of State was pleased to sanction for him a special bonus of £100 on condition of his serving in the College for three years after his return to India.

3. *Strength.*—There were 47 students on the rolls on the 31st March 1895 as against 41 on the corresponding date in 1894. The Principal attributes this to the re-entry into the College of several students with a view to complete the tests for the diploma. The exact number of such students should have been given. Fourteen of the students came from territories beyond the Presidency limits, Mysore and Coorg contributing respectively eight and three; and of the districts only five—Tanjore, Tinnevelly, Coimbatore, Salem and Madura—sent in three to five each, the other districts being represented by one or two only. Of the students, 32 were Brahmans and 12 non-Brahman Hindus. The European, Native Christian and Muhammadan communities had each but a single representative. The increase in the number of non-Brahman students is encouraging. Eight students belonged to the richer and 37

to the middle classes; and 10 were the sons of officials and 34 of land-holders; 25 on the whole were stipendiaries, the rest being paying scholars. Only five of the seven district scholarships were filled by Collectors' nominees, of whom two were First Arts undergraduates. Although a pass at the Matriculation Examination has been recognized as the minimum qualification for admission into the College, the importance now attached to the diploma will, the Director trusts, enable Collectors to secure graduates or at least undergraduates of the F.A. standard as scholarship-holders.

4. *Examinations.*—The results obtained by the College at the Government Technical Examination held in April 1894 have been noticed and commented on in paragraph 4 of Proceedings No. 8655, dated 12th September 1894, reviewing the report for 1893–94. Paragraph 10 of the Principal's report is unnecessary as, with reference to Government Order on the report for 1893–94, information connected with the examination held in April 1895 should find place in the report for 1895–96.

5. *Practical work.*—It does not seem to the Director that the practical work done by the several classes was attended with such success as might have been expected. Class III made two agricultural excursions through Anantapur and Coimbatore, but only sixteen days were spent in actual work. Untimely and deficient rainfall more or less affected the operations on the farm.

6. *Veterinary instruction and hospital.*—Pending the orders of the Government of India the special Veterinary class which Government proposed to start in the College for training young men for subordinate posts in the Civil Veterinary Department and as private practitioners was not opened during the year. There was a general rise in the number of patients treated at the Veterinary hospital, the large increase under cattle patients being due to the outbreak of foot-and-mouth disease on the farm. The Director presumes that the instruction in the last review as to the necessity for a thorough knowledge of the common bazaar drugs used in Veterinary Science is being acted up to. It is observed that the net expenditure on the Veterinary hospital rose from Rs. 573 to Rs. 644.

7. *The College farm.*—Some of the yields from the crops grown on the farm-annexé were fair, and the results would have been better but for untimely and insufficient rain. The reduction in the live-stock is noted with satisfaction, as also the increase in the number of cows brought for service. The yield of milk by the farm dairy which, the Director understands, was obtained by volume and calculated to weight, slightly fell owing to the outbreak of foot-and-mouth disease, but it is noted that the daily average yield had increased. The net expenditure on the farm fell from Rs. 1,309 to Rs. 860, which must chiefly be attributed to the increased receipts from farm produce and sale of live-stock. A satisfactory reduction is also noticed in the outlay on cattle food.

8. *The College hostel.*—Seventeen students of the College were accommodated in the hostel on the farm. From the fact that students of the Teachers' College to the above number were allowed boarding in the hostel, the Director believes that all the students of the College of Agriculture who cared to have the benefit of a hostel have been provided for. The Principal is requested to state whether the above surmise is correct. A rough plan of the hostel with the dimensions clearly marked should be submitted to the Director, to enable him to see whether the hostel accommodation is sufficient. It should also be reported how the charges of the hostel are met.

9. *Former students.*—From the particulars appended to paragraph 12 of the report it is observed that only 154 former students are employed in the Agricultural and kindred departments out of 355 students educated in the College. The proportion can hardly be viewed as satisfactory, considering that the cost of educating each student has always been very high. The cost per head during 1894–95 was as high as Rs. 650. But the Director cannot see his way to a larger number of men being employed to any useful purpose, unless the Board of Revenue and the District officers co-operate with the Department in filling subordinate posts in the Revenue, Settlement and Forest Departments with men holding the College diploma, other things being equal. If necessary, the Principal will be instructed to forward to District officers every year a statement showing the general and special qualifications of the students that have completed their College course and are willing to take up appointments in the departments concerned.

10. *Finances.*—Excluding scholarships amounting to Rs. 3,408, the expenditure on the College aggregated Rs. 34,424, of which Rs. 6,520 appertained to the farm, gardens and Veterinary hospital. The increase over the figure for the previous year was chiefly due to the grant of increment and exchange compensation allowance to the Acting Principal.

11. *Conclusion.*—The work of the Acting Principal and the staff was on the whole fair. More attention should be paid to the practical training of students, seeing how Class III failed to answer the third paper on Agriculture. The Director assumes that students are required to take independent notes of their observations while on excursions and that the notes are carefully gone over by the members of the staff and criticised in the presence of the whole class.

(A true Extract.)

Director of Public Instruction.

To the Principal, College of Agriculture, with three spare copies.
„ Principals of other special Colleges.
„ Principals of Government First-grade Colleges.

Copy to the Board of Revenue (Revenue Settlement, Land Records and Agriculture), }
„ the Superintendent, Civil Veterinary Department, } for information.
„ the Commissioner for Government Examinations, }
„ Government, with C.L.

1895.

SEPTEMBER.

PUBLIC INSTRUCTION,

MADRAS.

To

THE PRINCIPAL, COLLEGE OF AGRICULTURE,

AND OTHERS.

Dated September, 14th.

Despatched

Received

14TH SEPTEMBER 1895, No. 10147.

Enclosures.

College of Agriculture.—Reviewing report on the working of the — during 1894-95.

First copy [illegible]

Return[illegible]ire.

OFFICE OF THE DIRECTOR OF PUBLIC INSTRUCTION,

Madras, 17th Sept 1895.

No. 10,219

From

THE HONORABLE MR. D. DUNCAN, M.A., D.Sc.,

DIRECTOR OF PUBLIC INSTRUCTION,

Madras,

To

THE HONORABLE THE CHIEF SECRETARY TO GOVERNMENT,

FORT ST. GEORGE.

SIR

I have the honour to submit, for the information of Government, a copy of my Proceedings reviewing the reports on the working of the College of Agriculture during the session 1894—95.

I have the honour to be,

Sir,

Your most obedient Servant

D Duncan

Director of Public Instruction

Ed. Cor.
15 (b) 1,500—17-11-94.

Educt.

Current No 1107

From

The Director of Pub. Instn

Madras.

To

The Honorable the Chief Secretary

to Government

No 10219

Dated 17th Sep. 1895

Rcpd: Do

Recd 12/9/95

Enclosure 1

759: 8-10-94 Do
480: 22-6-94
317: 9-5-94 SC
464: 5-6-95
712: 11-9-94
475: 10-6-95
509: 19-6-95
581: 2-10-88

3

Time for this answer given after expiration of D

Hm

Order No 534 dated 19-10-95

Recorded.

2. A brief account of the origin and working of the hostel attached to the College should be submitted for the information of Govt.

11-10-95

14/10/95

The suggestion here at the end of para 9 of the Director's Rep is approved.

To

The D.P.I. 6
-- Rev. deptt. } despd 6/11/95
Editors' table
copy sent 7/11

What is done with this with?

The work is sold to the [illegible] vide para 18 of the report

College of Agriculture, Saidapet

Submitting for information copy of Proceedings Reviewing the report on the working of the during the Session 1894-95

499
15-6-95

C. 15/10

DESPATCHED
17 SEP 1895

Fwd 587 Rev. dtd 20-8-95 in pg. for Rev. Deptt

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