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[Despatch Abstract.]

College of Agriculture

Reviewing the report on the working of the —— for 1901–02.

BACK PAPERS.

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

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Government {1902} of Madras.

EDUCATIONAL.

Recd. } 1902. *Enclosures*

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ORIGINAL

G.O., No. 535, 3rd September 1902.

SEPTEMBER.

College of Agriculture.

Reviewing the report on the working of the — for 1901-1902.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following paper :—

From the Hon'ble Mr. G. H. STUART, M.A., Director of Public Instruction, Madras, to the Secretary to Government, Educational Department, dated 21st August 1902, Cur. No. 6219.

I have the honour to submit, for the information of Government, a copy of my proceedings, Dis. No. 4246, dated 14th instant, reviewing the report on the working of the College of Agriculture, Saidapet, for the year 1901–1902.

Enclosure.

Proceedings of the Director of Public Instruction, dated 14th August 1902, Dis. No. 4246.

Read the following letter from W. KEESS, Esq., M.A., M.R.A.C., Principal, Madras College of Agriculture, to the Director of Public Instruction, dated Saidapet, 29th April 1902, No. 391 :—

I have the honour to submit the report on the College of Agriculture for the year 1901–1902. I have endeavoured to carry out your instructions regarding the curtailment of the report (paragraph 6, Proceedings, Dis. No. 4845, dated 26th August 1901).

2. *Staff.*—Mr. Thorne acted as Principal, during my absence on furlough, till 26th July, on which date I relieved him. My return to duty caused the reversion of Mr. Thorne, Acting Principal, and M.R.Ry. G. Krishna Prabhu, Acting Vice-Principal, to their permanent posts of Vice-Principal and First Assistant respectively and entailed the disappearance from the College of M.R.Ry. A. Ramalinga Aiyar, Acting First Assistant. Mr. Thorne served as Vice-Principal till 16th October. From this day to 1st March he was on deputation to the Agricultural department and undertook a tour of agricultural enquiry under instructions from the Director of Agriculture. No one acted for him during his absence. The College is now provided with a Vice-Principal, who possesses three years' Indian experience and has had an opportunity of studying the agricultural practices of several districts of the presidency. It is desirable that he should in future take a prominent part in managing the farm and in directing the practical instruction of the students. The chief difficulty in utilising his services in this manner lies in the fact that he is not provided with quarters on the farm and consequently has to reside in Madras. During April, May and June, when very little is doing on the farm, it is immaterial where Mr. Thorne resides, but during the remaining nine months of the year the College cannot fully utilize his services unless he lives within easy reach of his work. I have addressed you separately regarding the provision of a house for the Vice-Principal (*vide* correspondence ending with my letter No. 261, dated 25th March 1901).

On 11th October M.R.Ry. C. Krishna Menon, Fourth Assistant, ceased doing duty at the College and on 12th March severed his connection with the institution. The delay with its consequent inconvenience in disposing of this officer's case was due entirely to his severe illness. From 11th October to the end of the year M.R.Ry. T. V. Narayana Rao, Bailiff and Acting Fifth Assistant, acted as Fourth Assistant, sub. *pro tem.*, and M.R.Ry. J. Chelvaranga Raju, Veterinary Hospital keeper, acted as Fifth Assistant without prejudice to his duties as Veterinary Hospital keeper. During M.R.Ry. J. Chelvaranga Raju's occupancy of two distinct appointments every endeavour was made to relieve him of as many of his duties at the Veterinary Hospital as possible and the second clerk and assistant Bailiff was deputed to assist him.

Dr. Leather, Agricultural Chemist to the Government of India, did duty at the College from the 4th to 31st March. He was unable to spend his usual time (one and a half months) at Saidapet as he was about to avail himself of leave out of India.

During his deputation he delivered 18 lectures to class III and devoted 11 hours to laboratory demonstrations (3 hours with class III and 8 hours with class II). He did not perform any analyses and I quite agree with his contention that he should not be called upon to undertake them at Saidapet, where he would have to work without an assistant and with apparatus used by students. It should also be borne in mind that most agricultural analyses can be better performed at Dehra Dun than at Saidapet. If the annual deputation of the Agricultural Chemist to this College is to continue the duration of his stay and the nature of his duties should be definitely settled, so as to enable the Principal to arrange full work for him. The question I understand will be raised on Dr. Leather's return to India. A report by him will be found in the appendix.

Owing to departmental exigencies the Superintendent, Civil Veterinary Department, did not deliver any lectures at the College.

3. *Strength.*—I regret that the strength of the College decreased by four, the number on the rolls on the 31st March 1902 being 38. This was entirely due to the smallness of class I. Mr. Thorne appears to have taken the customary steps for recruiting a new class for the current session, and I can only attribute his failure to collect more than nine men to the fact that a reorganization of the College had been announced. I know only too well how difficult it is to tempt students to join the college when it is undergoing the oft-repeated and usually prolonged process of reorganization.

The numbers given below do not include the minors under the Court of Wards resident at Newington, Teynampet, who attended field classes by arrangement with their tutor :—

—	Class I.		Class II.		Class III.		Total	
	31st March 1901.	31st March 1902.	31st March 1901.	31st March 1902.	31st March 1901.	31st March 1902.	31st March 1901.	31st March 1902.
1. Europeans	..	..	..	..	..	..	..	..
2. Native Christians	..	1	..	..	..	..	..	1
3. Muhammadans	1	..	..	1	1	1	2	2
4. Brahmans	7	5	8	7	6	9	21	21
5. Non-Brahman Caste Hindus	7	3	5	6	6	4	18	13
6. Panchamas and kindred classes	1	..	..	1	..	..	1	1
Total	16	9	13	15	13	14	42	* 38

* Includes one student who rejoined the College with a view to complete the diploma and two casual students.

Classification according to general educational qualifications—

B.A.	1
F.As.	11 †
Matriculates or Upper Secondary men	19 ‡
Non-Matriculates	7 §

† Of these, five have passed one or two branches of B.A.
‡ Of these, one Upper Secondary.
§ Of these, two Middle School, First Class.

4. *Instruction.*—Instruction, both theoretical and practical, was given in accordance with the syllabuses. As the curriculum is now under revision it is unnecessary for me to comment on the deficiencies of the present course of studies.

Owing to a favourable season the students enjoyed more opportunities of engaging in practical work on the farm than they did during the previous year.

Class I was instructed in ploughing and other field operations and attended the usual field and museum classes.

The practical work of class II consisted to a great extent of "field cultivation." The students cultivated an area of 2 acres as follows :—

One acre, white cholum ; 10 cents, Mauritius groundnut ; 90 cents, green-gram, which failed owing to heavy rain, followed by indigo and gingelly. The usual field classes were also held.

Class III made two agricultural excursions during the year—one in October to the South Arcot district (including a visit to a portion of the Chingleput district) and another in January to the Coimbatore district. The tours were conducted by M.R.Ry. T. V. Narayana Rao, acting Fourth Assistant, and M.R.Ry. J. Chelvaranga Raju, acting Fifth Assistant, respectively. I desire to acknowledge the kindness of the Collectors of South Arcot, Chingleput and Coimbatore in affording the class assistance during the tours. The usual field and museum classes were held.

Practical instruction in the other subjects was conducted in exactly the same manner as during the previous year.

5. *Veterinary Hospital.*—Mr. S. L. D'Silva, Second Assistant, was in charge during the whole year. M.R.Ry. J. Chelvaranga Raju was hospital-keeper till 11th October. From that date till the end of the year he was acting fifth assistant of the college but in addition to his teaching work performed the duties of hospital-keeper being assisted in them by the second clerk and assistant bailiff—*vide* paragraph 2 *supra.* The arrangement worked well at the hospital but caused the college and farm some inconvenience.

During the first six months of the year the hospital suffered severely as regards equine patients from the competition of the S.P.C.A.'s infirmary which has the advantage of being conveniently placed and of making very low charges for treatment of patients. During the latter half of the year however the Veterinary hospital seemed to regain its popularity and the total number of equine patients shows a considerable increase over that of the previous year. The number of cattle cases increased by twenty. It should be noted that twenty-four cases of foot-and-mouth disease were treated at the hospital. Fortunately the institution is provided with a convenient contagious shed. "Other animals" (chiefly dogs) showed a large decrease in number attributable to the competition of private practitioners, most of whom are ex-students of the college.

The following statement shows the progress made by the hospital under Mr. D'Silva during the last six years :—

—	1896-97.	1897-98.	1898-99.	1899-1900.	1900-1901.	1901-1902.
Horses and ponies	147	216	248	290	266	306
Cattle	161	186	226	206	313	333
Other animals	139	210	250	308	277	228
Total	447	612	724	804	856	867

The net cost decreased from Rs. 909-4-11 to Rs. 391-5-9. The arrangement by which M.R.Ry. G. Chelvaranga Raju was acting fifth assistant without prejudice to his duties as Veterinary hospital-keeper caused a saving under "Establishment." There was also a large decrease under "Hospital charges." The income showed a slight decrease which has been explained by Mr. D'Silva.

The chief need of the hospital is the construction of quarters for the officer in charge. At present he has to reside nearly a mile from the hospital.

6. *The College Farm.*—M.R.Ry. C. Krishna Menon, Fourth Assistant, was farm manager till 1st October. From 2nd to 22nd October there was no manager, as M.R.Ry. T. V. Narayana Rao, acting Fourth Assistant, whom I selected for the post, was absent on tour and could not assume charge till 23rd October. He has remained in charge ever since and has performed his duties to my satisfaction. Y. Srinivasa Rao was bailiff during the whole year and his services require special commendation. V. S. Subrahmania Aiyar was second clerk and assistant bailiff throughout the year, though during the last six months he did no duty on the farm—*vide* paragraphs 2 and 5 *supra.*

On 11th March I took over 61 cents of land from the Collector of Chingleput. This area was originally portion of field No. 25 and will again be incorporated into that field.

The site of the municipal cemetery remained in charge of the farm during the whole year ; but as the President, Madras Municipal Council, has reserved to himself the right of taking possession of the land on giving a month's notice, it is undesirable

to spend much money on it. A portion of it was cleaned and cultivated for fodder, chiefly cholam. The municipality and farm by arrangement divide between them any income arising from the sale of fruit, wood, &c., from the land.

7. The rainfall during the year was abundant. The south-west monsoon was slightly late, but the north-east monsoon was punctual and brought a great deal of rain —*vide* statement No. 5.

8. In April, May and June there was as usual very little work on the farm. The first portion of July was also a quiet time owing to want of rain. When the rain did arrive, it found the farm short of working cattle. It is very hard to buy suitable animals at the commencement of the rains and though two fairly good pairs were purchased in September the work got behind. The result was that a heavy north-east monsoon surprised the farm with its work in rather a backward state. It is to this I chiefly attribute the almost complete failure of the pulse crops and the poor yield of some of the cereals.

The various statements relating to the farm have as directed been relegated to the appendix. A reference to them will show that paddy, transplanted and broadcast, did remarkably well. There were no similar crops in the neighbourhood which could compare with the farm ones. The drilled paddy however did badly. The drilling, which is a difficult operation and needs a great deal of practice, was not well done, the most skilful cooly at this kind of work having left the farm. Ragi, transplanted and under irrigation, as usual did well. The cause of the poor outturn of the remaining cereals and of all the pulses has already been explained. Some further reasons will be found in the "remarks" column of the cropping statement (No. 6). Sea Island cotton at the first gathering yielded 300 lbs. per acre of cotton-in-seed which must be considered as very good. The Mauritius groundnut was put in too late and the yield was only fair. The other five varieties were raised for the Agricultural Department. The pods of all the varieties mentioned in the statement are being analysed by the Agricultural Chemist to the Government of India, but the analyses have not yet reached me.

It is a matter for regret that sugarcane was not raised on the farm. In March last I obtained over 10,000 sets from the Coimbatore district representing several varieties and hope in future years to cultivate those varieties which give the best results.

The livestock on the farm was maintained in good condition. There was one mishap. One of the best cows was injured while grazing and eventually died. I held an enquiry but could not discover how the injury was inflicted or who was to blame. The grand old breeding bull "Venketesan" died of old age after being maintained for the last few months of his life as a pensioner. He has left his stamp on the farm herd. It will be necessary to replace him by another breeding bull from the Nellore district. The stock of cattle was reduced towards the close of the preceding year to an extent which rendered any sale during the year under report undesirable.

The farm is in possession of the newest and most approved appliances for a small dairy and the chemical laboratory is fitted with modern apparatus for rapidly testing milk, cream and butter. Excellent butter was made on several occasions during the year, but owing to deficiency of milk and other causes it could not be made daily. I have addressed you separately (my letter No. 301, dated 11th April 1901) requesting you to make a special provision of Rs. 1,800, which sum will enable the farm to start a small, and I feel sure, a profitable dairy business.

9. The farm was worked at a net profit of Rs. 201–4–8. The receipts however were unduly swollen by Rs. 555 representing the proceeds of the sale of the materials of a condemned building on the farm. Excluding this sum the receipts were Rupees 3,960–2–3 against Rs. 4,760–2–7 during the previous year. The expenditure was Rs. 4,313–13–7 against Rs. 5,558–10–9. There was therefore a large decrease in the net cost.

10. *Botanical Garden.*—The following specimen crops were grown in the upper terrace: cereals 11, pulses 9, oilseeds and industrial crops 9, fibre crops 9, root crops 15, grasses 10, condiments and spices 12,—total 75. This part of the garden fully maintained its popularity among visitors.

11. *Former students.*—With a view to obtaining employment for unemployed students I inserted an advertisement in the *Fort St. George Gazette* calling on such students to supply me with the usual information about themselves. Only one man replied, but before I could take steps about him he obtained employment. No list was therefore circulated among Revenue officers, &c., as prescribed by article XIX (i) of the College rules. I fear, I must confess, I have no faith in this method of encouraging the employment of ex-students in suitable posts.

The usual tabular statement giving particulars regarding the occupations of former students is omitted as I fear it needs considerable correction. I shall make an effort next July to collect as much information as possible about ex-students for the purpose of incorporating the same in the college calendar, and I hope to insert a correct statement in my next annual report.

12. All three classes underwent gymnastic instruction.

The athletic club to which all students have to belong provided them with facilities for indulging in cricket, foot ball and lawn tennis.

The boat club possesses a boat which was fairly well used during the year.

13. The Agricultural Students' Association held six meetings, at three of which papers were read.

The college day was celebrated for the fifth time on 28th March. In connection with this celebration, a small gymnastic and athletic competition was held.

14. *Prizes—The Robertson Prize.*—This prize is awarded to the student who, at the end of his third year, stands highest at the Government Technical examination in Agriculture—Advanced. The amount now available for the prize is Rs. 89. The name of the winner will be submitted to you when the results in Agriculture—Advanced are published.

The Clogstoun Prize.—This prize is awarded to the student of class III who obtains the highest marks at the college examinations during the preceding three years. The amount available is Rs. 45. The winner is S. Ramaswami Pillai, a non-Brahman F. A. and the Salem district stipendiary student.

15. Referring to paragraph 4 of your Proceedings, No. 4585, dated 17th April 1896, I beg to state that the provisions of the Madras Educational Rules, so far as they are applicable to this College, were observed during the year—

(i) *Academic costume of staff.*—The members of the staff entitled to wear academic costume, viz., the first and third assistants and myself, wore it regularly during the year.

(ii) *Strength of classes.*—All three classes were under authorised strength.

(iii) *Accommodation and sanitation.*—The building could accommodate more than double the number of students on the rolls. The sanitary arrangements were sometime back certified to by the District Surgeon of Chingleput.

(iv) *Interschool rules.*—These were strictly observed.

(v) *Discipline.*—No serious breaches of discipline occurred. The College authorities enforce the disciplinary provisions of the Madras Educational Rules as well as the rules applicable only to students of this institution.

(vi) *Registers and accounts.*—All these have been properly maintained.

(vii) *Hours of attendance.*—6–30 A.M.—8 A.M. (sometimes 9 A.M.), practical work for all classes. 10 A.M. to 1 P.M., lectures. Afternoons, surveying, dissections, laboratory work, "field cultivation," &c.

(viii) *Holidays and vacations*—

Easter vacation	*Nil* (suspended).
Summer vacation	Two months *plus* three days compensation for loss of Easter vacation.
Michaelmas vacation	One week.
Christmas vacation	Two weeks (*vide* G.O., No. 763, Educational, dated 18th December 1901).
Holidays	Eleven days selected from the authorised list.

No members of the staff were detained at Saidapet during the last summer vacation. It is essential in the interest both of the college and of the officers themselves that members of the staff should enjoy the whole of the summer vacation. With a competent hospital-keeper at the veterinary hospital and a competent bailiff on the farm (where very little work goes on during May and June), there is not the slightest necessity for any member of the staff to be deprived of the whole or any portion of the summer vacation.

16. *Examinations.*—The usual tabular statement showing the results of the Technical examinations just concluded will be submitted when the names of the successful candidates appear in the *Gazette*. The number of candidates is so small that there appears to be no reason why the results of the examinations should not be known a fortnight after the college session closes.

17. The service books of the establishment have been properly maintained up to date.

18. In conclusion I desire to acknowledge the services of the present staff and officers.

APPENDIX No. I.

Statement giving particulars called for in Proceedings, No. 10543 of 1898 (the occupation of parents added as in previous years).

Class.	Distribution of scholars according to wealth,			Occupation of parents.				
	Richer class.	Middle class.	Poorer class.	Officials.	Petty officials.	Traders.	Land-holders.	Others.
Class I	..	8	1	1	..	1	7	..
,, II	2	13	..	5	..	..	9	1
,, III	..	12	2	8	..	..	5	1
Total ..	2	33	3	14	..	1	21	2

Average number on the rolls = 37 (36·6).
Average daily attendance = 34 (33·5).

APPENDIX No. II.

Statement showing the distribution of students according to districts.

Districts.	Class I.	Class II.	Class III.	Total.
Ganjám	..	1	..	1
Vizagapatam	..	..	1	1
Gódávari	1	..	..	1
Kistna	1	1	..	2
Bellary	..	..	..	..
Cuddapah	..	2	..	2
Kurnool	..	..	1	1
Anantapur	..	1	..	1
Nellore	..	..	1	1
Chingleput	..	..	1	1
Tanjore	1	2	1	4
Trichinopoly	..	2	..	2
Madura	1	1	5	7
Tinnevelly	1	..	..	1
Coimbatore	1	1	..	2
Salem	..	..	1	1
Malabar	1	1	..	2
South Canara	..	..	1	1
Pudukkóttai Estate	..	1	..	1
Indore State	..	1	..	1
Bangalore	..	..	1	1
Trivandrum	..	1	..	1
North Arcot	2	..	..	2
Madras	..	..	1	1
Total ..	9	15	14	38

APPENDIX No. III.

Statement giving particulars regarding scholarships in class I.

Names of students.	Districts.	Nominated by.	Section of population.	Educational qualification.
1. Mandali Venketappayya	Kistna	Collector ..	Non-Brahman caste Hindu.	Matriculate.
2. K. Narayana Aiyangar	Tinnevelly ..	Do. ..	Brahman	Do.
3. T. S. Venkataraman	Tanjore ..	Do. ..	Do.	F.A. and second language in B.A.
4. Manakkadan Raman	Malabar ..	Do. ..	Non-Brahman caste Hindu.	F.A. and two branches in B.A.
5. K. Ramanadha Aiyar	North Arcot ..	Do. ..	Brahman	Matriculate.
6. P. V. Raghavendra Rao	Coimbatore ..	Do. ..	Do.	Do.
7. Velliyur Nott Rama Rao ..	Bellary ..	Principal ..	Do.	B.A.

Note.—The two special scholarships were filled by a non-Brahman F.A. and a Native Christian Matriculate.

APPENDIX IV.

Statement showing expenditure and income at the Veterinary Hospital.

Expenditure.

	1900-1901. Rs. A. P.	1901-1902. Rs. A. P.
Establishment	819 0 9	600 2 1
Hospital charges	461 15 7	227 10 1
	*226 13 4	*154 1 6
Repair to hospital buildings	103 2 11	250 9 7
	*214 10 11	...
Total ...	1,825 11 6	1,232 7 3

Note.—The figures marked * are Accountant-General's adjustments.

Income.

	1900-1901. Rs. A. P.	1901-1902. Rs. A. P.
Subscription	8 0 0	16 0 0
Payment on account of stabling	238 10 2	213 12 9
Do. do. advice and medicines ...	453 1 0	435 4 0
Do. for sundry matters	215 11 5	176 0 9
Total ...	916 6 7	841 1 6

APPENDIX V.

Statement showing the monthly rainfall registered at the College farm, Saidapet, during 1901–1902.

Months.	Actual rainfall during 1901–1902.	Average rainfall collected at Saidapet during the previous 31 years.
	INCHES.	INCHES.
April 1901	...	0·43
May ,, ...	...	1·89
June ,, ...	0·21	2·26
July ,, ...	5·87	3·92
August ,, ...	11·07	5·00
September ,, ...	4·21	5·57
October ,, ...	7·85	11·38
November ,, ...	15·66	14·03
December ,, ...	13·58	5·50
January 1902	0·55	0·38
February ,, ...	...	0·49
March ,, ...	...	0·23
Total ...	59·00	51·08

APPEN

Cropping statement

Crops.	Area in acres.	Outturn.			
		Grain or seed.		Straw or fodder.	
		Amount.	Per acre.	Amount.	Per acre.
	ACS.	LB.	LB.	LB.	LB.
Cereals.					
Paddy (sirumani, transplanted)	4·77	13,170	2,761	24,920	5,224
Do. (do. broad cast)	4·50	9,410	2,091	22,400	4,978
Do. (chinna chamba, drilled)	2·86	3,498	1,223	6,720	2,350
Do. (do. broad cast)	0·33	570	1,727	1,120	3,394
Do. (pisini, drilled)	4·49	2,190	488	9,184	2,045
Do. (do. broad cast)	2·91	3,480	1,196	4,144	1,424
Do. (sixty days' chamba, broad cast)	4·50	8,640	1,920	10,640	2,365
Do. (do. do.)	3·70	(Standing)		..	..
Ragi (transplanted and under irrigation)	5·46	6,680	1,224	31,024	5,682
Do. (do. do.)	1·30	..	..	..	..
Do. (broad cast, dry)	0·62	205	330	1,400	2,258
Yellow cholam (*a*)	5·00	1,213	243	4,760	952
White cholam (*b*)	2·50	1,573	629	5,544	2,258
Red cholam	0·57	228	400	1,624	2,849
Varagu	1·57	774	493	3,360	2,140
Cumbu	2·94	1,221	419	5,600	(*c*) 1,904
Pulses.					
Greengram	1·60	195	122	..	..
Blackgram (*d*)	2·80	601	215	..	..
Horsegram	12·81	1,410	110	10,192	796
Industrial crops.					
Indigo	(*e*) 3·97	..	..	..	..
Sea Island cotton	(*f*) 0·10	30 lb. cotton in seed.	300 lb. cotton in seed.	..	..
Ground-nut (Mauritius)	2·20	(*g*) 3,125	1,420	..	..
Do. (Gambie)	0·12	(*g*) 332	2,683	..	..
Do. (Sine)	0·12	(*g*) 254	2,117	..	..
Do. (Haut Saloum)	0·12	(*g*) 219	1,825	..	..
Do. (Ruffisque)	0·12	(*g*) 245	2,042	..	..
Do. (Japan)	0·12	(*g*) 181	1,508	..	..
Sugarcane	(*h*) 0·80	..	..	..	..
Fodders.					
Yellow cholam (green under irrigation)	2·70	..	..	54,488	20,180
Do. (do.)	1·15	..	..	..	..
Do. (hay)	1·60	..	..	896	560
Yellow cholam, horsegram, white cholam and horsegram.	2·70	..	..	..	..
Guinea grass	0·45	..	..	..	..
Lucerne	0·14	..	..	• 280	..
Horsegram (hay)	11·85	..	..	13,776	1,163
Sundries.					
Cucumbers, melons, ribbed gourd, brinjals and tomatoes.	1·52	(Rs. 46-3-3 up to 31st March 1902).			
Crops which failed.					
Blackgram	3·00	..	..	..	..
White cholam	1·00	..	..	..	..
Red cholam	0·57	..	..	..	..
Yellow cholam and horse gram	1·40	..	..	..	..
Varagu	1·92	..	..	..	..

Note.—The greater portion of the Municipal land, which was temporarily transferred to the farm, was thoroughly cleaned

DIX VI.

of the Farm.

Remarks.
General.—Hundred cart-loads of night-soil, which were purchased from the Madras Municipality during the year, were applied to most of the paddy fields. 1·9 acres of cholam, 2·2 acres of Mauritius ground-nut and to 6·08 acres of ragi. The season, on the whole, was favourable for paddy. The continuous heavy rainfalls of 14·7 and 11·11 inches from 1st to 12th November 1901 and from 8th to 11th December 1901, respectively, were very prejudicial to the dry crops.
Standing.
(*a*) Grown on two of the poorest fields without any manure. (*b*) Crop in nearly half the area attacked with borer.
(*c*) Straw not used as fodder.
(*d*) Diseased. Caterpillars eating away the leaves. An application of a mixture of four paras of slacked lime and four cart-loads of ashes in January 1901, enabled the crop to survive and to give the yield mentioned.
(*e*) This was sown with gingelly as a mixed crop. Both almost failed, but 69 measures of gingelly were obtained. (*f*) First gathering.
(*g*) Gross yield. The haulms which were not quite suitable for fodder were used as litter. A slight attack of kumbili puchi was removed by a top-dressing of a mixture of 252 lb. of castor-cake, 224 lb. lime, and one cart-load of ashes. In the Japan variety the pods are easily picked up by jackals and crows, as the seeds form near the surface. Hence the poor yield. The seeds are larger than those of the other varieties.
(*h*) Standing.
Single cutting.
Standing.
Grown dry in one of the worst fields.
Standing.
Do.
Standing. • Hay obtained from two cuttings.
Crop still yielding.

APPENDIX VII.

Statement showing the yield of milk by the College Farm herd during 1901–1902.

Name of cow.	Age.	Yield in 1901–1902 in		Number of days cow yielded.	Average per day in	
		Madras measures of 100 cubic inches.	Pounds.		Madras measures of 100 cubic inches.	Pounds. *
1. Kalyani No. IV	11	358·63	1,444·86	154	2·50	9·38
2. Narayani	14	323·88	1,214·55	169	1·92	7·20
3. Big Tara	13	532·25	1,995·94	263	2·02	7·58
4. Raghavan's cow †	7	328·13	1,230·49	86	3·82	14·33
5. Parvati	11	524·00	1,965·00	265	1·97	7·39
6. Govindu	14	452·00	1,695·00	251	1·80	6·75
7. China Tara	8	646·38	2,423·93	280	2·31	8·66
8. Kalyani No. V	7	542·00	2,032·50	194	2·80	10·50
9. Meenakshi	8	508·00	1,905·00	196	2·59	9·71
10. Kuttykunhue	7	291·13	1,091·74	151	1·93	7·24
11. Bhagyam †	11	94·00	292·50	46	0·81	3·04
12. China Sita	6	108·88	408·30	46	2·37	8·89
13. China Alamelu	7	69·38	260·18	29	2·39	8·96
Total ..	124	4,778·66	17,959·99	..	..	..
Average ..	yrs. 9·5	367·59	1,381·54	..	..	..

* One Madras measure is taken as weighing 3·75 lb.
† Between Nellore bull and half-bred kerry cow. Others Nellore.

APPENDIX VIII.

Statement showing the number and value of stock at the commencement and at the end of the year 1901–1902.

Description.	Commencement.			End.		
	Number.	Value.	Total.	Number.	Value.	Total.
Cattle.						
Cows	9	Rs. 710	Rs. ..	12	Rs. 890	Rs. ..
Heifers	8	265	..	8	210	..
Heifer calves	4	80	..	4	20	..
Bulls	12	1,200	..	11	905	..
Bullocks	4	180	..	8	380	..
Bull calves	9	180	2,615	14	265	2,670
Sheep.						
Rams	9	45	..	11	40	..
Ewes	36	126	..	36	108	..
Gimmers	7	18	..	12	30	..
Lambs	11	11	200	21	21	199
Total ..	..	..	2,815	..	..	2,869

Remarks.—During the year one cow and two pairs of bullocks were purchased. Of the stock remaining at the end of 1900–1901, three heifers became cows and one cow and one bull died.

APPENDIX X.

Value of farm-grown fodder consumed by stock.

Items.	Value. Rs.	A.	P.
35⅓ tons of paddy straw at Rs. 8 per ton	282	10	8
5 7/10 ,, of cholum straw at Rs. 7 per ton	39	14	5
14½ ,, of ragi straw at Rs. 5 per ton	72	8	0
1½ ,, of varagu straw at Rs. 5 per ton	7	8	0
24⅓ ,, of green cholum fodder at Rs. 15 per ton	365	0	0
10 7/10 ,, of horse gram hay at Rs. 20 per ton	214	0	0
⅛ ton of lucerne hay approximately at Rs. 100 per ton ...	12	8	0
Fodder supplied from the Botanical Garden—			
1 9/10 tons of horse gram hay at Rs. 20 per ton	38	0	0
1 9/10 ,, of varagu straw at Rs. 5 per ton	9	8	0
2 ,, of cholum straw at Rs. 7 per ton	14	0	0
6 ,, of guinea grass at Rs. 15 per ton	90	0	0
5 ,, of green cholum at Rs. 15 per ton	75	0	0
Add the following stock remaining on 1st April 1901—			
22 tons of paddy straw at Rs. 10½ per ton	231	0	0
16⅕ ,, of cholum straw at Rs. 8 per ton	129	9	7
1½ ,, of varagu straw at Rs. 5 per ton	7	8	0
16 ,, of horse gram hay at Rs. 20 per ton	320	0	0
Total ...	1,908	10	8
Deduct stock remaining on 1st April 1902—			
32 tons of paddy straw at Rs. 8 per ton	256	0	0
6 ,, of cholum straw at Rs. 7 per ton	42	0	0
1½ ,, of varagu straw at Rs. 5 per ton	7	8	0
2 ,, of horse gram hay at Rs. 20 per ton	40	0	0
⅛ ton of lucerne hay at Rs. 100 per ton	12	8	0
Total ...	358	0	0
Net value of farm-grown fodder consumed by stock in 1901–1902	1,550	10	8

APPENDIX XI.

Value of services rendered by live-stock on the Farm.

Field No.	Amount. Rs.	A.	P.	Field No.	Amount. Rs.	A.	P.
1	35	4	0	19	18	6	0
2	86	4	0	20	32	10	0
3	16	8	0	21	15	6	0
..	22	8	0	22	22		
				24	7		

APPENDIX XII.

Bull service during 1901–1902.

During the year 7 farm cows and heifers and 177 outside cows were served.

APPENDIX XIII.

Value of services rendered by the live-stock on the Farm to the Botanical Gardens and the College compound garden during 1901–1902.

	Rs.	A.	P.
One pair daily for 305 working days at As 12 per day	228	12	0
Extra cattle labour beyond the usual one pair, say, one-fifth of the above	45	12	0
Total ...	274	8	0

APPENDIX XIV.

	Rs.
Quantity of manure obtained, 150 tons valued at Rs. 3 per ton ...	= 450

N.B.—This includes the droppings of sheep also.

APPENDIX XV.

Financial statement of the College Farm for 1901–1902.

Receipts.

	Rs.	A.	P.	Rs.	A.	P.
Field produce	...			1,992	6	8
Live-stock—						
Sale of cows, calves, sheep, &c.	27	2	0			
Sale of milk, butter, ghee, &c.	978	2	10			
Covering fees	88	8	0			
				1,093	12	10
Wood and Miscellaneous	...			1,428	14	9
Total ...				4,515	2	3

Charges.

	Rs.	A.	P.	Rs.	A.	P.
Cattle food—						
Oil-cake, &c.	623	5	8			
Dholl husk	204	2	1			
Wheat bran, &c.	122	9	6			
Rice bran	125	8	1			
Salt	30	11	5			
Paddy straw						

APPENDIX XVI.

Statement showing the books in the library.

Description.	Number of books on 1st April 1901.	Number added during 1901–1902.	Total.
Agriculture	862	33	895
Botany	93	6	99
Gardening	24	3	27
Forestry	49	4	53
Economic Entomology	38	2	40
Zoology	58	1	59
Veterinary	147	3	150
General Science	76	1	77
Chemistry	59	1	60
Physics	16	..	16
Geology	64	..	64
Physiography	102	..	102
Mathematics	70	1	71
Surveying	25	2	27
Engineering	84	3	87
General Literature	155	5	160
Miscellaneous reports	207	5	212
Total ..	2,129	70	2,199

APPENDIX XVII.

Statement showing the number of books taken out by the staff and students.

Description.	Number taken out by staff.	Number taken out by students.
Agriculture	231	189
Veterinary Science	50	71
Botany	71	46
Chemistry	47	115
Physiography		
Geology		
Physics		
Surveying and Levelling	48	61
Engineering		
Miscellaneous reports	29	2
General Science	4	10
General Literature	23	25
Total ...	503	519

APPENDIX XVIII.

	Budget estimate, 1901–1902.	Expenditure. 1900–1901.	Expenditure. 1901–1902.
	Rs.	Rs. A. P.	Rs. A. P.
1. Principal and Vice-Principal	18,105	11,735 14 9	* 14,643 9 4
2. Masters and teachers	11,250	8,393 3 2	† 10,335 12 1
3. Establishment	2,496	2,328 7 1	2,119 15 8
4. Travelling allowances	400	523 5 6	‡ 430 12 3
5. Veterinary Hospital establishment	834	819 0 9	600 2 1
6. Supplies and services—			
Library allowance	300	137 3 0	25 7 6
Prize allowance		....	25 0 0
Scholarships	§	....	....
Petty works of construction	250	....	201 11 6
Laboratory charges	250	298 5 11	171 11 9
		128 6 11	*76 7 2*
Hospital charges	1,184	461 15 7	227 10 1
		226 13 4	*154 1 6*
Repairs to hospital buildings		103 2 11	250 9 7
		214 10 11	
Furniture	600	3 0 0	90 15 0
Apparatus		240 6 0	214 11 1
Live-stock		....	276 14 0
Farm sewage	4,750	5,559 4 9	4,313 13 7
Botanical garden	1,000	930 0 2	841 11 0
Batta and carriage to agricultural students	300	289 11 9	318 7 0
7. Contingencies—			
Europe stores including Medical Stores from Madras	200	*223 9 6*	*795 5 10*
Petty repairs to buildings	900	716 0 11	897 11 6
		383 15 2	
Cleaning charges	43	37 3 0	38 11 2
Rents, rates and taxes	70	67 8 0	144 8 0
Repairs to furniture	50	1 8 0	54 1 0
Tour charges	105	53 2 5	94 9 1
Postage charges	90	60 10 0	76 2 0
Telegraph charges	10	4 15 0	1 13 0
Purchase of books	15	3 4 0	15 0 6
Office expenses	434	369 6 5	359 13 0
Miscellaneous	....	....	....
Total ..	43,636	33,136 11 1	36,771 2 9
		1,177 7 10	*1,025 14 6*
Receipts.			
College of Agriculture—			
Farm sewage	....	4,760 2 8	4,515 2 3
College fees	....	480 0 0	297 8 0
Rent and miscellaneous	....	236 5 6	208 6 9
Veterinary hospital	....	916 6 7	841 1 6
Total ..	....	6,292 14 9	5,862 2 6

Note.—The figures in italics are Accountant-General's adjustments.

* Includes Rs. 738–13–0 being exchange compensation allowance. The increase was due to the Principal's return from furlough and also to the special and some furlough allowances drawn by him in addition to salary—excludes Vice-Principal's pay for the period from October 1901 to February 1902 during his tour under the Agricultural Department.

† The increase was due to the reversion of M.R.Ry. G. Krishna Prabhu to his permanent appointment of First Assistant and also to the increase of pay granted to, and the difference of pay drawn by him in consequence.

‡ Excludes the travelling allowance drawn by Mr. Thorne during his tour.

§ Rs. 3,718–14–4 are to be charged against separate provision in the Educational budget.

APPENDIX XIX.

From J. W. LEATHER, Esq., Agricultural Chemist to the Government of India, to the Principal, College of Agriculture, Saidapet, dated 4th April 1902, No. 3—19–1.

I have the honour to submit the following report on the course of lectures which I have delivered to the students during the past month.

2. As requested by you, I have given one lecture per day (total 18) to class (iii) and two laboratory demonstrations in addition.

This number of lectures enabled me to go over the principal points in connection with soils, but other subjects, such as food stuffs, I could touch very briefly upon.

Class (ii) has worked on eight different days for one hour at a time in the chemical laboratory.

This is more than you suggested as necessary, but they were somewhat backward in the subject.

APPENDIX XX.

From S. L. D'SILVA, Esq., Second Assistant, College of Agriculture, and Officer in charge, Government Veterinary Hospital, Saidapet, to the Principal, College of Agriculture, dated 18th April 1902.

I beg to note in the following tabular statement the different kinds of animals admitted and the diseases for which they were treated at the Veterinary Hospital during the official year ending 31st March 1902. In the year under report the number of cases treated and the receipts were, respectively, 867 and Rs. 841–1–6 against 856 and Rs. 916–6–7 in the year 1900–1901. The fall in the receipts, in spite of the increase, though slight, in cases, was due to the collection under "sundries" and to the amount of outstanding dues brought over from the preceding year being smaller in the year under report than in 1900–1901. Although the steady increase in the number of patients continues (from 269 in 1890–1891 to 867 in 1901–1902), yet the rate of increase has not been as high during recent as it was in former years. This is, in my opinion, due, as I stated in my last year's report to increase of Veterinary Practitioners in Madras. The S.P.C.A. infirmary which formerly undertook the treatment of only the "cruelty" cases sent by the Magistrates, has, for two or three years, been thrown open to the public at large. It is centrally and conveniently situated for the inhabitants of the various parts of Madras, while the case is just the reverse with the Saidapet hospital. The hospital had for some time to strive very hard to win the confidence of cattle and sheep-owners, but now it is as popular with them as with the owners of horses and dogs.

In October there was an outbreak of foot-and-mouth disease in and around Saidapet, and 24 cattle cases were admitted in the hospital. Epizootic aphtha this year assumed a panzootic form and invaded sheep and goats in addition to cattle. Most of the cases among sheep and goats, specially at the beginning of the outbreak, showed *vesicæ* in the feet only, and simulated the cases of what is called "contagious foot-rot." But the occurrence of a case now and again in which both the feet and the mouth were affected left no doubt as to the nature of the outbreak. Fortunately, foot-and-mouth disease, although it is one of the most infectious of the specific blood diseases is the least fatal of them.

Mr. Chelva Ranga Raju continued to be the Hospital-keeper during the year. From October 1901, however, he has been an Acting Assistant of the College without prejudice to his duties as Hospital-keeper and has been assisted at the hospital by Mr. V. S. Subrahmany Iyer, Second Clerk of the College and Assistant Bailiff. It is hoped that this arrangement which is calculated to prejudice the interests of the hospital will soon cease and a full timed Hospital-keeper will be appointed.

In conclusion I beg to record my full appreciation of the assistance which Mr. Chelva Ranga Raju gave me in discharging the hospital work and in conducting practical classes at the hospital.

Statement showing the principal classes of diseases treated at the Government Veterinary Hospital, Saidapet, during 1901–1902.

Class of diseases.	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	18	..	12	..	10	..	19	1	59	1
Specific blood diseases	6	..	16	..	11	..	19	..	52	..
Diseases of the digestive organs ..	41	..	50	..	32	..	60	1	183	1
Do. biliary apparatus ..	8	..	1	..	..	..	4	2	13	2
Do. respiratory organs ..	58	..	9	..	3	..	10	2	80	2
Do. urinary system ..	1	..	..	..	1	..	..	..	2	..
Do. skin	27	..	6	..	6	..	49	..	88	..
Do. foot	21	..	9	..	..	..	1	..	31	..
Do. eye	9	..	8	..	4	..	5	..	26	..
Do. ear	..	..	1	..	..	..	7	..	8	..
Do. lactiferous organs ..	..	..	..	..	1	..	..	..	1	..
Do. generative organs ..	8	..	6	..	2	..	13	1	29	1
Do. nervous system ..	5	..	1	..	..	..	7	..	13	..
Injuries and diseases of bones ..	18	..	8	..	1	..	4	..	31	..
Injuries and diseases of ligaments, tendons and muscles	14	..	19	..	2	..	3	..	38	..
Surgical conditions, wounds, tumours, &c.	72	..	102	..	12	1	27	1	213	2
Total ..	306	..	248	..	85	1	228	8	867	9

APPENDIX XXI.

Tour in the South Arcot and Chingleput Districts, October 1901.

6*th October*.—Saidapet to Cuddalore (New Town).

7*th Forenoon—Periakanganakuppam*.—Studied the cultivation of mixed crops of groundnut and cumbu and of groundnut and tenai.

Afternoon—Chinnakanganakuppam.—Took notes regarding the cultivation of paddy under the dry system. Saw cultivation of groundnut under well irrigation in small plots, mixed with brinjals and cluster beans.

8*th October—Surappanaikanchavadi*.—Observed the preparation of indigo dye. From the steeping of the leaves to the cutting of the dye into cakes, boiling excepted.

9*th Forenoon—Vannarapaliam*.—Studied the cultivation of indigo.

Afternoon.—Visited the District Jail, Cuddalore, and saw the extraction of groundnut-oil by manual labour; also saw vegetables, etc., growing.

10*th October—Bandipaliam*.—Took notes about the cultivation of cocoanut and tapioca, visited paddy fields under the wet system, cocoanut topes of different stages of growth and plots of tapioca and elephant yam.

11*th Forenoon—Vilvarayanatham*.—Obtained information about the cultivation of elephant yam, brinjals and paddy under the wet system.

Afternoon—Korappanaikampetta.—Studied cultivation of plantains (Mauritius variety). Visited a garden of cocoanuts and roses where the cocoanut trees were bored through the central wood, to prevent the ascent of worms from the roots as was commonly supposed.

12*th October*.—Holiday for Mahalaya Amavasyai.

13*th Forenoon—Devanampatnam*.—Visited casuarina nurseries and obtained information about plantations.

Cuddalore (New Town) to Nellikuppam.

Afternoon—Melpathi.—Studied the cultivation of mixed crops of paddy (two varieties).

14*th Forenoon—Arungunam*.—Visited betel vine gardens.

Afternoon.—Visited Sugar Factory and Distillery of Messrs. Parry & Co. Nellikuppam.

15*th October—Videpakam*.—Inspected a number of sugarcane fields and made enquiries about their cultivation.

Nellikuppam to Panruti.

16*th October—Panruti*.—Went over groundnut fields and obtained information about the introduction and cultivation of the Mauritius variety.

17*th October—Panruti to Conjeeveram.*

18*th October—Chevelimedu*.—Obtained information about the cultivation of paddy.

19*th Forenoon—Conjeeveram*.—Studied the cultivation of cluster beans, sweet potato and ladies' fingers.

Afternoon—Tiruppakuli.—Visited an extensive area under plantain and took notes about history, growth, etc., of same.

With the kind permission of the Agent of Messrs. Parry & Co. and of the Superintendent, District Jail, Cuddalore, the party was able to go over the Sugar Factory and Distellery at Nellikuppam, and the District Jail at Cuddalore, respectively. On the 17th instant Mr. J. P. Lewis, Deputy Superintendent, was kind enough to conduct the party over the Reformatory school at Chingleput. The Tahsildars of Cuddalore and Conjeeveram rendered through their Revenue Inspectors all necessary help to the party.

(Signed) T. V. NARAYANA RAO,
Ag. Fourth Assistant.

Diary of the agricultural excursion in Coimbatore District during January 1902.

4*th January*.—Left Saidapet and reached Coimbatore on the morning of the 5th.

5*th January—Sunday*.—Made arrangements with the Revenue officer regarding tour.

6*th January*.—Visited Indiyalur cattle-fair in the afternoon and saw representative specimen of Alambady, Bargur and Kangayam cattle. Left Indiyalur at 5-30 P.M. and reached Vellakineru at 6 P.M.

7*th January—Vellakineru—Forenoon*.—Inspected several fields of tenai, cotton, wheat, coriander, cumin, fenugreek and enquired into the cultivation of cumin and other garden crops.

Afternoon.—Visited Vattamalaipalayam and enquired into the cultivation of garlic crop.

8*th January—Forenoon*.—Visited several fields to the south of Vellakineru. Enquired into the cultivation of oopam cotton, coriander, etc.

Afternoon.—Enquired into the cultivation of fenugreek. Returned from Vellakineru to Coimbatore in the evening.

9*th January—Forenoon*.—Left Coimbatore for Perur. Enquired into the cultivation of betel, arecanut and cocoanut plantations.

Afternoon.—Visited Telingapalaiyam village and seen several varieties of sugarcane (chiefly kaluthai puthan).

10*th January—Forenoon*.—Visited Mathampatti and Chittrachavadi and enquired into the cultivation of plantains, arecanut and cocoanuts as mixed crop. Saw cultivation of tobacco according to a dry system (without irrigation).

Afternoon.—Visited Thandawputhur and enquired into the cultivation of pulses, castor and other dry crops.

11*th January—Forenoon*.—Visited Coimbatore Central Jail and saw cultivation of English and country vegetables.

Afternoon.—Visited Messrs. Stanes & Co., manure works and saw various manures.

12*th January*.—Visited Ganapathi, Savuripalaiyam, etc., and enquired into the cultivation of wheat and tobacco and pointed out to the students "bodu" and other diseases of tobacco.

13*th and* 14*th January*.—Pongal holidays.

15*th January*.—Left Coimbatore for Madukari, visited Kurichi, Bodipalaiyam and Kurumbapalaiyam villages and enquired into the cultivation of dholl, horsegram, etc.

16*th January*.—Enquired into the cultivation of chillies, tenai and castor as a single crop. Left Madukarai of Singanallur in the evening.

17*th January*.—Visited Singanallur and surrounding villages, such as Upplipalaiyam, Andiputhur, and enquired into the cultivation of betel vines and saw the crushing of cane in an improved mill and manufacture of jaggery by country process.

18*th January*—Visited Upplipalaiyam and saw five different varieties of sugarcane and enquired into the cultivation of the same. Left Singanallur in the evening for Erode.

19*th January—Erode*.—Examined several fields of tobacco, sweet potato, brinjals, turmeric and nadam cotton, and enquired into the cultivation of the same.

20*th January*.—Left Erode for Kodumudi and enquired into the cultivation of reed cane and saw the manufacture of brown sugar from the same. Enquired into the cultivation of turmeric and elephant foot yams as a mixed crop.

21*st January*.—Left Kodumudi for Karúr in the morning. Enquired into the cultivation of cumbu crop and saw several acres under onions. Enquired into the cultivation of the same.

22*nd January—Forenoon*.—Left Karur for Vangal and enquired into the cultivation of plantains. Saw thirteen varieties of plantains side by side. Left Karúr for Erode in the evening.

23*rd January*.—Left Erode for Bhaváni and enquired into the cultivation of paddy. Saw the preparation of turmeric for the market.

24*th January*.—Left Bhaváni for Palayakottai.

25*th January—Palayakottai*.—Inspected Pattakar's grazing grounds and saw fine specimens of Kangayam cattle. Enquired into the system of breeding, castration, etc., as adopted there.

26*th January—Palayakottai*.—Saw several varieties (6) of white cholum grown under well irrigation and enquired into the cultivation of the same.

27*th January*.—Left Palayakottai and reached Erode. Left Erode by evening train to Madras.

28*th January*.—Reached Saidapet.

(Signed) J. CHELVA RANGA RAJU
Ag. Fifth Assistant.,,

Read the following letter from W. KEESS, Esq., M.A., M.R.A.C., Principal, Madras College of Agriculture, to the Honourable the Director of Public Instruction,, Madras, dated Saidapet, 31st May 1902, No. 463 :—

In continuation of my letter, No. 391, dated 29th April 1902 (annual report on the College of Agriculture), I have the honour to submit the usual tabular statement showing the results of the examinations for the Agriculturist's diploma held in April last. I beg to express my obligation to the Commissioner for Government Examinations for informing me of the names of the successful candidates within a month of the conclusion of the examinations. The results in Agriculture (Advanced) and four other subjects were known within a fortnight of the closing of the college. I am therefore in hopes that next year I shall be under the pleasing necessity of expressing my obligation to the Commissioner for letting me have the results in *all* nine subjects within two weeks of the termination of the examinations.

2. The percentage of passes was over 50 in all subjects except Botany (Special), in which the percentage was 41·7. The results in both stages of Veterinary Science were excellent and reflect great credit on Mr. D'Sylva, Second Assistant.

3. Considering the favourable results in individual subjects, it is disappointing to find that only two students obtained the diploma. This is due to no less than five candidates having failed in one subject only. Two of the best men (one of them being the winner of the Robertson Prize) failed in Agricultural Engineering—I believe in only one portion of it — a subject in which they did much better at the College examinations than many of those who passed. Under these circumstances and as 18 separate minima are required for the diploma, I am making a special appeal to the Commissioner for Government Examinations to grant these two men a few "grace marks" in Agricultural Engineering and thus allow them to qualify for the diploma. The principle that a candidate, who fails in one minor subject after doing very well in all other subjects required for a degree or diploma, should get a few "grace marks" in the subject, in which he has not passed, has been accepted by examining authorities at several universities and was on many occasions acted upon by a former Commissioner for Government Examinations (the late Mr. Grigg).

4. The winner of the Robertson Prize (*vide* paragraph 14 of annual report) is V. Muthuswami Atmakar), Brahman, F.A., of the Tanjore district, and holder of a special scholarship. As mentioned above he has not obtained the diploma. I may add that the winner of the Clogstoun Prize also failed to obtain the diploma.

Enclosure.

Subject.	Number of candidates.	Number passed.			Percentage.
		1st Class.	2nd Class.	Total.	
Botany (Special)	12	..	..	5*	41·7
Physiography (Intermediate)	21	1	11	12	57·1
Inorganic Chemistry (Intermediate)	17	3	6	9	52·9
Organic Chemistry (Special)	14	4	8	12	85·6
Veterinary Science (Intermediate Stage I)	14	11	2	13	92·9
Do. (do. do. II)	12	7	3	10	83·3
Surveying and Levelling (Special)	18	..	10	10	55·6
Agricultural Engineering (Intermediate)	12	..	9	9	75 0
Agriculture (Advanced)	12	1	6	7	58·3

* Not divided into classes.

"N." Ref. on Cur. No. 405–3 of 1902.

Forwarded to the Secretary to the Board of Revenue (Revenue Settlement, Land Records and Agriculture), in continuation of this office "N." Ref. on Cur. No. 405–3 of 1902, dated 9th May 1902.

(Signed) T. R. SCOTT,
for *Director of Public Instruction.*

2nd June 1902.

Read the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), Mis. No. 3347, dated 14th June 1902 :—

The Hon'ble Mr. F. A. Nicholson, C.I.E., I.C.S.

Read endorsement from the Director of Public Instruction, dated 9th May 1902, Ref. on Cur. No. 405—3.

Read also endorsement from the Director of Public Instruction, dated 2nd June 1902, No. 405—3.

Resolution—Mis. No. 3347, dated 14th June 1902.

Having in view the instructions of the Government of India regarding the preparation of intermediate reviews on annual reports—G.O., No. 99, Revenue, dated 24th January 1902—, the Board will refrain from making any detailed remarks, but it is glad to observe that the results of the recent examinations were more satisfactory than they have been in recent years.

2. It entirely concurs in the opinion of the Principal that Mr. Thorne should reside on the College Farm, and, until this is arranged for, it will scarcely be possible to entrust him with charge of the farm, as recommended by the committee, whose report was submitted to Government with Board's Proceedings, No. 176, dated 9th January 1902. It must not, however, be supposed that the brief and rapid tours made by Mr. Thorne during the last cool weather can serve as more than a preliminary to the study of South Indian Agriculture and agricultural conditions other than those of which he will gain experience of at or near Saidapet. It is therefore desirable that he should, whenever possible, be allowed to proceed to different localities to study closely particular practices, their reasons and conditions and possible amendments. This may possibly be arranged in connection with the periodical tours of the senior students.

3. The proposal to secure the services of an Agricultural Chemist to work in this Presidency will, if carried out, remove the difficulties attendant on present arrangements, and now that a new Superintendent, Civil Veterinary department, has been appointed, he should be able to assist in the veterinary course of the students. His proposals for starting a special veterinary course at the college are awaited.

4. The decrease in the number of students is the more to be regretted, as it appears amongst the non-Brahman students, and this being so, it is doubtful whether the reason assigned by the Principal can be accepted. The matter should, the Board considers, receive close attention from the Principal.

5. The College Farm was inspected during the year by Mr. Mollison, Inspector-General of Agriculture to the Government of India, and the Board would suggest that that officer should be asked to furnish a note on the result of his inspections.

(True Extract.)

R. V. SRINIVASIAR,
Secretary.

To the Director of Public Instruction,
with proof and two original reports.

Proceedings, Dis. No. 4246 of 1902.

Recorded.

2. Mr. C. Krishna Menon, Fourth Assistant, "severed his connexion with the institution," as the Principal euphemistically expresses it, by being dismissed for appropriating Government money. The money was all recovered.

3. There was again a fall in the strength of the college due to the paucity of admissions into the first class. It is doubtful, however, if the cause assigned by the Principal, viz., the knowledge of an impending reorganization of the college is altogether responsible for the decline that has taken place in recent years. The lack of definite prospects of employment may have been a more influential factor in producing it. It is now under contemplation to attach agricultural teachers to training schools, and it is hoped that this scheme, when brought into force, will, by widening the field of employment, help to make the college more popular and attractive.

4. The results of the Government Technical Examinations in Agriculture and allied subjects were known in time to admit of their being before the Board when the report was taken up. From the summary given by the Principal, it is observed that fairly good results were obtained by the college, the percentage of success being over

50 in all but one of the subjects taken up, but it is to be regretted that only two students obtained the diploma against three the previous year. The Principal is requested to report whether both the students appeared from the college for the first time.

5. The steady increase during the last six years in the number of patients admitted into the veterinary hospital shows that under the charge of Mr. D'Sylva the hospital is gaining in usefulness and popularity. The Principal is requested to address the Director separately regarding the quarters for the officer in charge. Owing to departmental exigencies, the Superintendent, Civil Veterinary department, could not deliver any lectures at the college, while the Agricultural Chemist to the Government of India was not able to spend the usual six weeks as he was about to leave India. The Director entirely concurs with the Board of Revenue and the Principal that the Vice-Principal should live on the farm. Orders have just been passed on the question of providing him with quarters within the college precincts, and the Consulting Architect has been instructed to prepare the necessary plans and estimates. It is hoped that the work will soon be taken up. The Principal is requested to report on the Board's suggestion in the concluding portion of paragraph 2 of their Proceedings. Owing to abundant rains, the farm worked well during the year. As requested by the Principal, a sum of Rs. 1,800 has been sanctioned to enable him to start dairying operations, and it is hoped that the experiment will prove a success. The continued popularity of the botanical garden is noted.

6. The suggestion made by the Board of Revenue in paragraph 5 of their Proceedings will be attended to.

7. According to the annual returns, the total expenditure during the year, including the travelling allowance drawn by Mr. Thorne during his deputation, amounted to Rs. 38,640, while the receipts aggregated Rs. 5,862. The net cost to Government was thus Rs. 32,778 against Rs. 28,600 the previous year, and the net cost per student rose from Rs. 773 to Rs. 964.

8. It is not stated when the revised edition of the college calendar will issue. It is very desirable that complete information should be obtained about the occupations of former students. The Principal should see to this at once, and should maintain a register of qualified students who are unemployed.

9. The working of the institution during the year was creditable to the Principal and the staff.

(True Extract.)

G. H. STUART,
Director of Public Instruction.

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

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

Order—No. 535, Educational, dated 3rd September 1902.

The revision of the course of instruction at the college was under consideration during the year, but orders were not passed until after its close. The salient features of the revised curriculum which has just come into force are that all mornings should be devoted to out-door work and the afternoons to theoretical instruction, that agricultural chemistry should be taught as a separate subject and that students should pass in general chemistry, botany, meteorology, geology, anatomy and physiology before they can appear in practical agriculture and agricultural chemistry.

13

2. There was a further falling off in the strength of the college, but the results of the various examinations were fairly good. The Government have now prescribed the diploma in agriculture as a qualification for assistant and deputy commissioners and supervisors in the Settlement department, native assistants to the Director of Agriculture, farm superintendents, agricultural inspectors, and teachers in agriculture, and have also guaranteed an appointment annually on Rs. 40 *per mensem* to the best student of the college. These steps and the employment, which is contemplated, of a passed student in each of the Government training schools will, it is hoped, render the institution more popular as well as more useful.

3. The working of the farm cannot be considered to have been satisfactory, and the explanation of the failure is disappointing in that it shows that there was want of energy and foresight—qualities which should be taught at this college by example even more than by precept.

4. An estimate for the quarters required by the officer in charge of the veterinary hospital was sanctioned in G.O., No. 197 W., dated 29th January 1900, but the work could not be put in hand during the official year.

5. The Director will report whether C. Krishna Menon was prosecuted for misappropriating Government money.

6. The report is still much too long and should be considerably condensed. Several of the appendices should not have been printed. The Director should give his attention to the point, and report which of the statements may in his opinion be discontinued.

(True Extract.)

A. T. PRINGLE,
Asst. Secretary to Government.
[*in charge*].

To the Director of Public Instruction.
„ the Revenue Department.
„ all Collectors.

Exd. C. Parthasarathy.

Stock Form No. 127
2,000—1-5-02.

1 14

Educational (1902) Department.

CURRENT No. 1228

From

[Name] The Hon'ble Mr. G. D. Stewart, M.A.,

[Designation] Director of Public Instruction,

[Station] Madras

DESPATCHED
21 AUG 1902

Cur No. 6219 902

Dated 21st August 1902

Enclosures One

Received LOCAL & MUNICIPAL SECRETARIAT 22AUG1902 190 .

Registered 22 8 1902.

SUBJECT.

Sub:- Copy of Proceedings reviewing the report on the working of the College of Agriculture, Saidapet, for 1901-02.

BACK PAPERS.

E.D. 573 dy 9-10-01	G.O. 259 dy 2-5-02
" 209 dy 10-6-02 No	" 629 dy 24-7-02
" 377 dy 30-6-02	" Cur. 1214/02 already [illegible]

5419 dy 24-9-01 FURTHER PAPERS. G.O. 763 dy 18.12.01

ED 7/E

To

The Secretary to Government,

Educational Department.

Sir,

I have the honour to submit, for the information of Government, a copy of my Proceedings Dis No 4246, dated 14th instant reviewing the report on the working of the College of Agriculture, Saidapet, for the year 1901-02.

I have the honour to be,

Sir,

Your most obedient servant,

T R Sale

For Director of Public Instruction.

[E. / 4]

1,000—25-10-01.

EDUCATIONAL DEPARTMENT.

15 3 — 535 / 1902 — 15

READ AGAIN G.O., No. ....., dated 190

" " " " ....., " 190

READ ALSO:—

C. No. 1228, From the D.P.I., No. 6219, dated 21st August 1902

" " ....., " " ....., " 190

" " ....., " " ....., " 190

ORDER

No ....., dated 190

Para 2 of G.O. no 429 Edl dt 24-7-02.
Slip S.

* Better omit. It does not belong to 1901-2

(I think it shd. stand: the information will be useful to persons interested in the College who get only this report) H

The revision of the course of instruction at the College was under consideration during the year but orders were passed (cast) only after (until after) its close. [* The salient features of the revised curriculum which has just come into force are that all mornings should be devoted to out door work and the afternoons to theoretical instruction, that agricultural chemistry should be taught as a separate subject and that students should pass in general chemistry, botany, meteorology, geology, anatomy and physiology before they can appear in practical agriculture and agricultural chemistry.]

2. There was a further falling off in the strength

strength of the College ~~during the year and~~ but the results of the various examinations were fairly good. ~~The improvement in the latter, noticed in the report for the previous year, was not however sustained.~~ The Govt. have now prescribed the diploma in agriculture as a qualification for assistant and deputy Commissioners and Supervisors in the Settlement department, rating assistants to the Director of Agriculture, farm Superintendents, agricultural inspectors, and teachers in agriculture, and ~~they~~ have also guaranteed an appointment annually on Rs 40 per mensem to the best student of the College. These steps ~~with~~ and the ~~contemplated~~ employment (which is contemplated) of a passed student in each of the Govt. training schools will it is hoped, ~~make~~ render the ~~the~~ institution ~~sufficiently~~ popular ~~in future~~.

Gº. no 541 R&L dd 24-9-01. Slip T.

Gº. no 256 R&L dd 2-5-02. Slip U

Para 6 of Gº. no 429 dd 24-7-02. Slip S.

Gº. no 259 dd 2-5-02. Slip X.

2. An estimate for the quarters required by the officer in charge of the veterinary hospital was sanctioned in Gº. no 197 W dd 29th January 1900 and the work will be taken up as soon as funds become available. ~~The construction of quarters for the Vice-Principal will be commenced very shortly.~~ but cannot be carried out, and the set in hand during the official year.

3. The working of the farm cannot be considered to have been satisfactory and the explanation of the failure is disappointing in that it shows that there was want of ~~foresight~~ energy and foresight, qualities which should be taught at this College by example even more than by precept.

slip V.

* Its sum included in Class B works in the P.W. Budget. page 42. Slip W.

Cwo 1214 - Abstract at Slip Z.

4. The Director will report whether

C. Krishna

C. Krishna Menon was prosecuted for misappropriating Govt. money. ~~and if not why.~~

5. The report is still ~~too~~ much too long, and should be considerably condensed. The information now furnished can be given in a much shorter form and the attention of the Principal should be called to the matter.

Pfg
26/8/2

28.8.02

31.8.02

General of the appendices should not have been printed. The Director should give his attention to the point & report which of the statements may in his opinion be discontinued.

[E. 12]
1,000—7-5-02.

EDUCATIONAL DEPARTMENT.

6

17

3P

READ AGAIN G.O., No. ....., dated ..... 190 .

" " " " ....., " ..... 190 .

READ ALSO:—

C. No. 1228, From the Director of Public Instruction, No. 6219, dated 21st August 1902.

" " ....., " " ....., " ....., " ..... 190 .

" " ....., " " ....., " ....., " ..... 190 .

ORDER No. 535, dated 3-9- 1902.

P.S.

dup 3/9/2

Para 2 of G.O. 429 Old dt 24-7-02. Slip S.

Better omit. It does not belong to 1901-1902.

A. T. P.

I think it should stand : the information will be useful to persons interestedin the College who get only this report.

H.A.S.

The revision of the course of instruction at the College was under consideration during the year but orders were not passed until after its close. The salient features of the revised curriculum which has just come into force are that all mornings should be devoted to out door work and the afternoons to theoretical instruction, that agricultural chemistry should be taught as a separate subject and that students should pass in general chemistry, botany, meteorology , geology, anatomy and physiology before they can appear in practical agriculture and agricultural chemistry.

7

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80. no 256 Col d/2-5-02. Slip W. Further orders are issuing.

80. no 4290 d/24-7-02 Para 6 - Slip S.

80. no 259 d/2-5-02. Slip X.

3. The working of the farm cannot be considered to have been satisfactory and the explanation of the failure is disappointing in that it shows that there was want of energy and foresight, qualities which should be taught at this College by example even more than by precept.

4. An estimate for the quarters required by the officer in charge of the Veterinary hospital was sanctioned in G.O. No. 197 W. dated 29th January 1900 but the work could not be put in hand during the official year.

Slip: V.

5. The Director will report whether C. Krishna Menon was prosecuted for misappropriating Government money.

6. The report is still much too long, and should be considerably condensed. Several of the appendices should not have been printed. The Director should give his attention to the point and report which of the statements may in his opinion be discontinued.

8

P.T.T.
26-8-2.

A.T.P.
28-8-2.

H.A.S.
31-8-2.

H. M.

To
The D.P.I.
.. Rev-depts
all collectors

Dated 26/9

5 4 3902

First copy sent to Press.

Returned for signature.

Despatched in print.

Number of copies required. { Order complete 150 / Letter only. / Order complete with Letter.

Read again G.O., No. 120 . Dated

Current No.

Enclosures to C. No.

Order of Government.

Letter of Government.

Statement with ditto.

Papers not filed up, being meant for despatch in original.

N.B.—

A = Print in full.
B = Not to be printed.
P = Print abstract only.
Q = Print heading only.