

S.1960.

C O N T E N T S .

1.	Report of the Bombay Civil Veterinary College, 1905-1906.		1-8 pp.
2.	dt o and Civil Veterinary Department, 1906-1907.	T9 (A)-231r λ. 231r	9-47 pp.
3.	dt o	λ. 231r dt o	1907-1908. 48-80 pp.
4.	dt o	λ. 231r dt o	1908-1909. 81-115 pp.
5.	dt o	λ. 231r dt o	E0 1909-1910. 116-151 pp.
6.	dt o	λ. 231r dt o	E1 1910-1911. 152-189 pp.
7.	dt o	λ. 231r dt o	E2 1911-1912. 190-221 pp.
8.	dt o	λ. 231r dt o	E3 1912-1913. 222-250 pp.
9.	dt o	Bombay Civil Veterinary College, 1914-1915.	251-278 pp.
10.	dt o	λ. 231r dt o	E5 1915-1916. 279-310 pp.
11.	dt o	λ. 231r dt o	E6 1920-1921. 312-332 pp.

REPORT

OF THE

BOMBAY VETERINARY COLLEGE

FOR THE YEAR

1905-1906.



BOMBAY:  
PRINTED AT THE GOVERNMENT CENTRAL PRESS.  
1906.

## APPENDIX I.

*Financial Statement of the Bombay City and Harbour Veterinary Department for the year 1920-21.*

Budget Sanction Heads.	Amount.		Actual Expenditure Heads.	Amount.	
	1919-20.	1920-21.		1919-20.	1920-21.
	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
Duty allowance to officers	.....	2,000 0 0	Duty allowance to officers	.....	2,465 2 8
Establishment	9,884 0 0	22,150 0 0	Establishment	9,859 7 11	12,855 10 4
Conveyance Allowance to Officers	840 0 0	840 0 0	Conveyance Allowance to Officers	840 0 0	70 0 0
Conveyance Allowance to Inspecting Staff.	1,558 0 0	4,960 0 0	Conveyance Allowance to Inspecting Staff.	1,551 2 1	2,895 8 11
Grant for mallein	1,000 0 0	1,000 0 0	Cost of mallein	.....	.....
Compensation for horses destroyed for glanders.	1,000 0 0	1,000 0 0	Compensation for horses destroyed for glanders.	180 0 0	260 0 0
Grant for Burning carcases	1,800 0 0	1,800 0 0	Burning carcases	1,325 0 0	.....
Telephone charges	175 0 0	575 0 0	Telephone charges	175 0 0	175 0 0
Contingent charges	1,050 0 0	1,739 0 0	Contingent charges	598 12 6	2,325 2 0
Building and repairs	308 0 0	159 0 0	Building and repairs	308 7 3	149 10 0
Rates and Taxes	11 0 0	611 0 0	Rates and Taxes	15 2 0	27 0 2
Uniform to Inspectors	90 0 0	225 0 0	Uniform to Inspectors	90 0 0	400 0 0
Plague Allowance	100 0 0	100 0 0	Plague Allowance	.....	.....
<b>Total</b>	<b>17,483 0 0</b>	<b>37,549 0 0</b>	<b>Total</b>	<b>14,721 0 6</b>	<b>24,607 2 1</b>

No. 2557 of 1921.

From

G. TAYLOR, Esquire, M.R.C.V.S., I.C.V.D.,  
Superintendent, Civil Veterinary Department,  
Bombay Presidency, Poona ;

To

THE SECRETARY to GOVERNMENT,  
Revenue Department, Bombay.

Poona, 27th June 1921.

Sir,

I have the honour to submit for the consideration of His Excellency the Governor in Council the Annual Administration Report of the Civil Veterinary Department, Bombay Presidency, for the official year 1920-21.

I have the honour to be,

Sir,

Your most obedient servant,

G. TAYLOR,  
Superintendent, Civil Veterinary Department,  
Bombay Presidency.

**ANNUAL ADMINISTRATION REPORT OF THE CIVIL VETERINARY DEPARTMENT, BOMBAY PRESIDENCY, FOR THE YEAR 1920-21.**

Mr. G. Taylor was in charge of the Department throughout the year. He was on tour for 149 days and travelled 8,820 miles by rail and 2,143 miles by road. He visited 17 districts, inspected 42 Veterinary dispensaries and 16 stallion stands once or more.

He conducted the supplementary examination of the Bombay Veterinary College in April, and served as the President of the Board of Examiners in December 1920.

In the course of his tours he visited the seats of several outbreaks of contagious disease and checked inoculation work of the staff. He also inspected at various times the following famine cattle camps :—

Ahmednagar District.	...	{ Ahmednagar. Buranagar. Miri. Belapur. Rahuri. Lakh.
Nasik District.		{ Yeola.
Poona District.	...	{ Shikrapur. Dhond.

He also attended the Agricultural Shows held at Dahanu and Jalgaon.

2. Khan Sahab J. D. Buzy held the post of Deputy Superintendent and Personal Assistant to the Superintendent throughout the year, except for a period of 3 months and 11 days, from 27th July 1920 to 6th November 1920, when he was on privilege leave, and Mr. P. D. Maniar, Veterinary Inspector, Ahmedabad Division, acted for him.

He was 55 days on tour, and travelled 4,210 miles by rail and 319 miles by road.

He attended three outbreaks of contagious disease in the Thana District, viz., two for Surra and one for suspected Glanders. He made a detailed tour to investigate the epizootiology of rinderpest in the Surat district and submitted a detailed report of his observations to the Superintendent.

He visited the Dahanu Agricultural Show to make arrangements for the Veterinary Section.

Under Government Order, No. 2673 dated 28th September 1920, Revenue Department, Government has permitted him to attend the Bombay Panjrapole Society's Panjrapoles with a view to organising the work of these institutions. A complete report has now been submitted to the Trustees, outlining a scheme of work, and which has been approved by the Committee and is being put into effect.

Mr. Maniar was on tour for 7 days. He travelled 864 miles by rail and 19 miles by road. He inspected one dispensary at Godhra.

**I.—VETERINARY INSTRUCTION.**

3. The usual practical instruction in field work was given to the newly joined Veterinary Assistants but no post-graduate Course was provided at the Bombay Veterinary College.

The meetings of the staff started last year were not held during this year for want of time as the staff were fully occupied in other work.

**II.—TREATMENT OF DISEASE.**

4. Contagious disease was reported from all the districts and from the City of Bombay.

Table II.

The recorded number of deaths was 7,752 against 8,647 last year.

The Veterinary Assistants attended 1,871 outbreaks of which 318 were also attended by the Veterinary Inspectors. The number of outbreaks reported to the staff by the revenue officials was 1,550. The remaining 321 had been brought to the notice of the Veterinary Assistants by private individuals.

*Equine contagious disease.*

5. Eleven cases of glanders were reported from Bombay City. Surra was reported from six districts and from Bombay City. There were 102 deaths against 154 in the last year. The disease was severe in the Thana and Kaira Districts, but the mortality shows a decrease in the Kolaba District compared with last year. As usual this disease was in nearly all cases brought to light by the staff on their periodic inspections of Tonga lines.

*Bovine contagious disease.*

6. Rinderpest was reported from all the districts of the Presidency. The number of deaths recorded was 5,910 against 6,870 last year.

These figures cannot be relied on as showing that the year has been a comparatively healthy one so far as rinderpest is concerned. The facts are the reverse and the disease has been particularly widespread. Last year there were only 452 outbreaks of rinderpest reported while this year the number was 793. The mortality from rinderpest as shown by the figures of the epizootic disease reports submitted by the staff when they investigate an outbreak is 9,479 which is nearly double that of the village officers' reports on which we depend for our statistics, notwithstanding the fact that the former are usually based on a single visit whereas the latter are supposed to be weekly returns of the mortality throughout the duration of the outbreak. With a view to obtaining some information that would give a more or less accurate idea of the losses from this disease special investigations were carried out by Khan Saheb Buxy in Surat District and Veterinary Inspector Nagarsheth in Nasik District.

In Surat district the investigation extended to 63 villages in many of which the enquiries were made by Khan Saheb Buxy personally. In these 63 villages 668 animals were known to have died from rinderpest which Khan Saheb Buxy values at Rs. 71,300, roughly Rs. 106 per head, which is a very low valuation of the cattle in Surat. In Olpad Taluka special facilities for enquiry were afforded in 4 villages in which the total number of cattle was 1,000 head; of these 180 died all valuable animals worth about Rs. 25,000.

In Nasik district the enquiry extended to 67 villages in Satana, Chandor, Kalwan and Malegaon Talukas. The total number of deaths was 989, which, at Rs. 45 per head, gives a loss to these Talukas of Rs. 44,505. These are facts as accurate as they can be ascertained at present but further speculation based on the present available data as to the total loss inflicted in the whole Presidency by contagious disease would be misleading.

Regarding the distribution of Rinderpest, Kolaba was the most seriously affected of the districts. The whole of the northern and central divisions were severely affected however, the districts suffering most being those into, and through which, famine stricken cattle were moved. Thus Nasik and West-Khandesh suffered very severely and also Panch-Mahals. The southern division was comparatively free from the disease.

7. Foot and mouth disease was prevalent in all the districts, and accounted for 256 deaths out of 16,158 animals reported to have been attacked.

8. Haemorrhagic Septicæmia was reported from 15 districts, of which Surat and Dharwar suffered the most. The total mortality recorded was 545 against 724 last year.

9. Black-quarter was reported from 5 districts and accounted for 80 deaths of which 50 deaths were reported from Ahmednagar.

10. Anthrax was reported from 7 districts and caused 404 deaths; Thana district reporting 202 deaths.

*Contagious diseases in other animals.*

11. As usual no reports from revenue officers were received, but an outbreak of Anthrax in sheep from Ahmedabad was brought to light by the staff; this outbreak of Anthrax was reported to the Secretary of the Wool Association, Bombay.

Pleuro-pneumonia in Sheep and Goats was also reported from Broach District.

Spirochaetosis among fowls was reported by the Veterinary Assistant, Broach.

Forty-eight cases of rabies in dogs were dealt with by the Veterinary Staff and 23 brains were sent to the Bacteriological Laboratory, Parel, for examination.

*Preventive measures.*

12. The number of cattle inoculated against rinderpest amounted to 55,725. These inoculations were carried out in only 427 outbreaks out of 792 attended by the staff.

Table III.

In the outbreaks in which inoculation was performed 5,520 uninoculated animals and 404 inoculated animals died.

13. Out of 122 outbreaks attended, in only 29 outbreaks of Hæmorrhagic Septicæmia inoculation was performed upon 4,180 animals.

Vaccination against this disease was carried out in 4 villages on 1,326 animals.

During the course of the outbreaks in which inoculation was performed 339 uninoculated, and 11 inoculated animals died. There were no deaths amongst the vaccinated animals.

14. In 7 outbreaks 383 animals were protected against Anthrax out of which only one died.

15. One hundred animals were vaccinated for Black-quarter at the Tegur Cattle Farm in Dharwar District with no deaths.

16. This year Rs. 769-3-8 were recovered for inoculation against Hæmorrhagic Septicæmia and Anthrax as against Rs. 510-14-8 last year.

17. The work of inoculation has made very considerable progress and can be regarded as satisfactory as indicating not only a growing faith in this method of dealing with disease but an increasing desire on the part of the people to save their cattle. The time is still distant when the actual influence of inoculation on the mortality will manifest itself in our statistics. There is no doubt however that by this means a large number of animals are saved. In all the cattle camps instituted for famine relief rinderpest appeared and was successfully kept under control by means of inoculation.

*Other diseases.*

18. The number of villages visited by 73 Veterinary Assistants was 4,460 against 3,085 by 65 Veterinary Assistants last year. During their tours they treated 30,660 cases of contagious disease (chiefly Foot and Mouth and Rinderpest) and 12,675 non-contagious cases. The number of castrations performed on tour was 1,078.

Table IV.

*Investigation.*

19. During the year 421 specimens were sent by the Veterinary Assistants to the Sir D. M. Petit Patho-Bacteriological Laboratory, Parel, for examination and 19 for the College Museum.

Khan Saheb Buxy submitted an interesting report on the epizootiology of Rinderpest in Surat District and Veterinary Inspector Nagarsheth submitted some useful reports on this disease as it prevailed in Nasik District.

At the request of Major Patton, I.M.S., the Director of the Pasteur Institute, Coonoor, a large number of specimens of maggots from cases of cutaneous myiasis were sent to him by the staff.

In acknowledging the material Major Patton states that in all cases the condition had been caused by a single blue bottle fly which proves to be a new species of which a description will be published by him in the Imperial Journal of Medical Research.

*Veterinary Dispensaries.*

20. Eight new dispensaries were opened during the year, viz., at Italva in Surat district, Satana in Nasik district, Talegaon in Poona district, Kopergaon in Ahmednagar district, Songola in Sholapur district, Ron and Haveri in Dharwar district and Kumta in Kanara district.

Including the new dispensaries the number at work at the end of the year was 73, against 65 last year. The number of cases treated was 89,522 against 90,800 last year, while medicines were supplied to 46,068 cases against 59,664. The slight decrease in the number of patients is fairly well distributed throughout and may be ascribed to cutaneous myiasis being less prevalent than usual, and, in some cases, to famine conditions.

21. As stated in the last year's report the work of construction of permanent buildings progresses very slowly. A Dispensary and Store room and a cattle shed were completed at Haliyal during the year through the generosity of Rao Bahadur Gopal Giri. The new hospital buildings at Sirsi still remain to be completed but arrangements have been made whereby it is hoped they will be completed in the current year.

Funds were provided for the construction of buildings at Pandharpur and Baramati. The Pandharpur hospital is nearing completion but the work has not yet been taken in hand at Baramati.

There are many hospitals located in temporary buildings of an unsuitable nature in which the work cannot be carried on with much convenience.

The following 5 new dispensaries were opened during the year by the help of popular contributions, viz., (1) Italva, (2) Satana, (3) Haveri, (4) Ron, and (5) Kumta. It is very satisfactory that the demand for these institutions should be given expression to in such a useful manner. Without these subscriptions it is very doubtful if the hospitals would have been opened.

In only one case, that of Malwan, has the amount of work at a hospital been unsatisfactory and the question of shifting the hospital to a more suitable centre is under consideration.

By way of experiment the dispensary of Sirur Taluka of Poona District was conducted on itinerating lines but owing to the prevalence of famine conditions the results were not such as would indicate success or failure of such a system.

III.—BREEDING OPERATIONS.

(1) *Bovines.*

22. Nil.

(2) *Equines.*

(i) *Horse and Pony stallions.*

23. At the beginning of the year 38 stallions, viz., 17 horses and 21 ponies were employed at stud. There was no increase or decrease in the number and there remained 38 stallions at the end of the year.

24. The stallion which was stationed at Broach last year has had a successful season having covered 62 mares.

25. During the year 1,491 mares were covered against 1,336 in the previous year. The average per stallion was 39.47 against 36.43 last year which shows a satisfactory improvement considering the season.

Table XI.

Table XII.

26. The average annual cost of maintenance of the stallions amounted to Rs. 772 per head against Rs. 726 last year.

The increase is partly due to the higher wages that are being paid to syces and partly to a general increase in the cost of grain and fodder.

Owing to fodder scarcity it was difficult to make satisfactory arrangements for grass, etc., no contractors being prepared to undertake the supply at reasonable rates. I am indebted to Mr. Thomson, Controller of Civil Supplies, for his assistance in supplying grass.

(ii) *Donkey stallions.*

27. There is no mule-breeding carried on in the Presidency.

(3) *Others.*

28. There is nothing to report under this head.

(4) *Fairs and Shows.*

29. Owing to prevalence of famine conditions no horse shows were held this year.

#### IV.—SUBORDINATE ESTABLISHMENT.

Table VII.

30. The strength of the subordinate establishment at the close of year was as follows :—

Veterinary Inspectors	...	...	5
Veterinary Assistants	...	...	89

Veterinary Assistant V. D. Patel proceeded on superannuation pension and Veterinary Assistant Parmar's services were dispensed with. Veterinary Assistant Gadagkar was seconded to the Agricultural Department as an Inspector of Cattle-breeding.

Veterinary Inspector Marathe who was deputed on 7th July 1919 to work for the Bombay Panjrapole Society reverted to the department on 16th September 1920.

With one or two exceptional cases of refractory conduct the whole staff have worked very satisfactorily during the year which has been a particularly arduous one in the Northern and Central Divisions and it would be difficult to select any individual cases for special mention.

#### V.—EXPENDITURE OF THE DEPARTMENT.

Table XIV-A.

31. The expenditure of the department is shown in Table XIV-A from information furnished by the Accountant General.

#### VI.—GENERAL REMARKS.

32. While the work has been well maintained at the hospitals, the year is marked by the opening of eight new hospitals the largest number opened in any one year and the considerable expansion of the work of anti-inoculation. This is directly due to the energies of the staff.

In August 1920 the revised rules under the Glanders and Farcy Act were finally sanctioned by Government.

During the year the orders of Government regarding the revision of the rates of pay of both the Veterinary Staff and the Clerical Establishment were received with much satisfaction.

That the honour of Khan Saheb was conferred upon Mr. Buxy was a matter of gratification to the whole department.

Khan Sahab Buxy, Deputy Superintendent, has as usual worked with zeal and energy and has been of great assistance to me. While he was on leave the duties of Personal Assistant were efficiently carried out by Veterinary Inspector Maniar. The clerical staff have also worked very satisfactorily throughout the year.

G. TAYLOR,  
Superintendent, Civil Veterinary Department,  
Bombay Presidency.

TABLE II.  
Showing the number of deaths from contagious diseases amongst animals during the year 1920-21.

District.	Equines.						Bovines.				
	Glanders.	Anthrax.	Surra.	Dourine.	Other contagious diseases.	Total.	Rinderpest.	Foot and mouth disease.	Hemorrhagic Septicemia.	Black quarter.	Anthrax.
1	2	3	4	5	6	7	8	9	10	11	12
1 Ahmedabad ...	...	...	...	...	1*	1	46	1	23	...	53
2 Kaira ...	...	...	92	...	...	92	415	1	58	...	...
3 Panch Mahals ...	...	...	...	...	...	...	977	3	...	...	...
4 Broach ...	...	...	...	...	...	...	137	1	8	...	...
5 Surat ...	...	...	6	...	...	6	661	1	135	...	...
6 Thana ...	...	...	55	...	...	55	306	10	16	...	304
7 East Khandesh ...	...	...	...	...	...	...	320	21	...	...	...
8 West Khandesh ...	...	...	2	...	1*	3	680	5	...	...	...
9 Nasik ...	...	...	...	...	...	...	750	20	...	...	...
10 Ahmednagar ...	...	...	...	...	...	13	170	2	...	50	21
11 Poona ...	...	...	...	...	...	...	310	19	30	4	...
12 Sholapur ...	...	...	...	...	...	...	22	12	...	1	...
13 Satara ...	...	...	...	...	...	...	23	1	7	...	...
14 Bijapur ...	...	...	...	...	...	...	...	...	84	...	...
15 Belgaum ...	...	...	...	...	...	...	7	43	62	6	...
16 Dharwar ...	...	...	...	...	...	...	5	3	90	...	3
17 Kanara ...	...	...	3	...	...	3	3	18	17	...	59
18 Ratnagiri ...	...	...	...	...	...	...	57	...	23	19	21
19 Kolaba ...	...	...	0	...	...	6	1,365	78	52	...	44
20 Bombay City ...	11	...	8	...	...	19	16	10	...	...	...
Total ...	11	...	102	...	15	138	5,010	236	545	80	404

District.	Bovines—contd.		Others.								Remarks.
	Other contagious diseases.	Total.	Sheep.				Birds.				
			Contagious pleuropneumonia.	Anthrax.	Foot rot.	Sheep pox.	Fowl cholera.	Spirorchosis.	Total.		
1	13	14	15	16	17	18	19	20	21	18	
1 Ahmedabad ...	...	122	...	392	...	...	...	...	...	392	* Strangles.
2 Kaira ...	...	474	...	...	...	...	...	...	...	...	...
3 Panch Mahals ...	...	980	...	...	...	...	...	...	...	...	...
4 Broach ...	...	146	25	...	...	...	...	9	84	...	...
5 Surat ...	...	687	...	...	...	...	...	...	...	...	...
6 Thana ...	...	438	...	...	...	...	...	...	...	...	...
7 East Khandesh ...	...	371	...	...	...	...	...	...	...	...	...
8 West Khandesh ...	...	632	...	...	...	...	...	...	...	...	...
9 Nasik ...	...	770	...	...	...	...	...	...	...	...	...
10 Ahmednagar ...	...	243	...	...	...	...	...	...	...	...	† Enteroic lymphangitis.
11 Poona ...	...	353	...	...	...	...	...	...	...	...	...
12 Sholapur ...	...	49	...	...	...	...	...	...	...	...	...
13 Satara ...	...	31	...	...	...	...	...	...	...	...	...
14 Bijapur ...	...	84	...	...	...	...	...	...	...	...	...
15 Belgaum ...	...	112	...	...	...	...	...	...	...	...	...
16 Dharwar ...	...	101	...	...	...	...	...	...	...	...	...
17 Kanara ...	3†	100	...	...	...	...	...	...	...	...	...
18 Ratnagiri ...	...	130	...	...	...	...	...	...	...	...	‡ Dengue.
19 Kolaba ...	...	1,440	...	...	...	...	...	...	...	...	...
20 Bombay City ...	...	35	...	...	...	...	...	...	...	...	...
Total ...	8	7,102	25	392	...	...	...	9	436	...	...

TABLE III.

Showing Results of Preventive Inoculation during the year 1920-21.

District.	Name of disease against which inoculation was carried out.	Method of inoculation followed.	Number of outbreaks in which inoculation was undertaken.	Number of animals which died un-inoculated in course of outbreak.			Number of animals inoculated.			Number of inoculated animals which died of the disease.			Remarks.
				Equines.	Bovines.	Others.	Equines.	Bovines.	Others.	Equines.	Bovines.	Others.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Ahmedabad	Rinderpest	Serum alone.	3	121	479	2							
Brooch	Do.	Do.	17	136	2,758	15							
Kaira	Do.	Do.	24	490	8,237	22							
Panch Mahals	Do.	Do.	10	898	1,065	13							
Surat	Do.	Do.	45	477	7,602	37							
Thana	Do.	Do.	24	328	3,739	23							
Ahmednagar	Do.	Do.	37	158	6,624	64							
East Khandesh	Do.	Do.	40	853	5,441	14							
West Khandesh	Do.	Do.	62	630	4,209	25							
Nasik	Do.	Do.	58	827	7,734	95							
Poona	Do.	Do.	35	263	8,449	26							
Satara	Do.	Do.	2	26	46	1							
Sholapur	Do.	Do.	...	...	...	...							
Belgaum	Do.	Do.	...	...	...	...							
Bijapur	Do.	Do.	...	...	...	...							
Dharwar	Do.	Do.	5	27	707	4							
Kanara	Do.	Do.	...	...	...	...							
Kolaba	Do.	Do.	65	1,326	8,540	68							
Retnagiri	Do.	Do.	...	...	...	...							
Total	.....	.....	427	5,520	55,725	404							
Ahmedabad	Hæmorrhagic Septicæmia.	Serum alone.	2	105	397	2							
Surat	Do.	Do.	9	105	2,012	7							
Sholapur	Do.	Do.	1	5	83	...							
Belgaum	Do.	Do.	12	68	889	...							
Dharwar	Do.	Do.	5	56	852	2							
Total	.....	.....	29	339	4,180	11							
Kanara	Anthrax	Serum alone.	6	20	118	1							
Kolaba	Do.	Do.	1	...	70	...							
Total	.....	.....	7	20	383	1							
Dharwar	Black quarter	Vaccination.	1*	...	100	...							
Total	.....	.....	1	...	100	...							
Surat	Hæmorrhagic Septicæmia.	Vaccination.	4†	...	1,326	...							
Total	.....	.....	4	...	1,326	...							
Grand Total	.....	.....	468	5,879	68,714	416							

\* Tegur Farm.

† Villages.

TABLE IV.

Showing the number of animals treated and castrated by the Veterinary Assistants on tour during the year 1920-21.

District.	Number of villages visited.	Number of Veterinary Assistants employed.	Castrations performed.				Treated for contagious diseases.	
			Equines.	Bovines.	Others.	Total.	Equines.	Bovines.
1	2	3	4	5	6	7	8	9
Ahmedabad	99	4	...	...	...	...	11	1,230
Broach	121	3	...	...	...	...	...	1,593
Kaira	135	3	...	...	...	...	9	1,327
Panch Mahals	77	1	...	...	...	...	1	111
Surat	471	4	1	125	...	136	7	1,051
Thana	367	4	18	65	7	90	...	913
Ahmednagar	293	5	...	60	1	61	...	721
East Khandesh	124	3	16	19	...	35	...	277
West Khandesh	252	4	16	1	...	17	4	617
Nasik	313	4	...	24	...	24	...	598
Poona	279	4	...	8	...	8	...	713
Satara	195	4	...	...	...	...	...	850
Sholapur	255	4	2	40	29	71	...	735
Belgaum	119	5	...	18	18	34	...	1,907
Bijapur	107	5	1	17	...	18	...	1,287
Dharwar	187	6	...	32	...	32	5	2,818
Kanara	422	3	1	369	3	372	...	1,446
Kolaba	652	4	...	188	...	188	5	7,194
Ratnagiri	212	3	...	2	...	2	...	4,639
Total	4,460	78	55	967	56	1,073	42	30,007

  

District.	Treated for contagious diseases.		Treated for non-contagious diseases.				Total number of cases treated and castrations performed.	Remarks.
	Others.	Total.	Equines.	Bovines.	Others.	Total.		
1	10	11	12.	13	14	15	16	17
Ahmedabad	8	1,239	112	505	165	782	2,021	
Broach	4	1,597	78	553	40	671	2,264	
Kaira	71	1,407	26	182	6	214	1,621	
Panch Mahals	...	113	36	537	...	563	675	
Surat	...	1,058	18	1,115	14	1,143	2,332	
Thana	...	918	321	325	43	689	1,597	
Ahmednagar	23	749	135	644	16	735	1,595	
East Khandesh	...	277	130	631	5	636	1,138	
West Khandesh	...	621	53	405	2	460	1,098	
Nasik	...	588	23	499	3	525	1,187	
Poona	27	740	32	298	18	348	1,096	
Satara	...	850	39	309	19	367	1,217	
Sholapur	10	745	65	1,060	43	1,173	1,989	
Belgaum	1	1,303	17	531	9	617	2,559	
Bijapur	...	1,337	40	632	1	643	1,943	
Dharwar	410	3,328	5	241	1	247	3,507	
Kanara	...	1,446	4	416	9	439	2,347	
Kolaba	47	7,246	...	1,572	17	1,589	9,023	
Ratnagiri	5	4,644	...	636	3	599	5,245	
Total	611	30,560	1,109	11,147	419	12,675	44,413	

TABLE V.

Showing the number of animals treated and castrated at Veterinary Hospitals and Dispensaries during the year 1920-21.

District.	Number of Veterinary Dispensaries.	Number of Veterinary Assistants employed.	Number of in-patients treated during the year.				Number of out-patients treated during the year.			
			Equines.	Bovines.	Others.	Total.	Equines.	Bovines.	Others.	Total.
1	2	3	4	5	6	7	8	9	10	11
Ahmedabad ...	4	4	115	364	55	534	1,820	2,388	1,909	6,717
Broach ...	3	3	108	162	18	288	1,249	1,800	434	3,483
Kaira ...	3	3	23	113	7	143	660	3,629	622	4,911
Panch Mahals ...	1	1	86	59	15	110	353	664	302	1,319
Surat ...	4	4	86	246	4	336	963	2,488	767	4,208
Thana ...	4	4	7	9	2	18	543	1,397	520	2,365
Ahmednagar ...	5	5	39	102	16	157	935	1,375	432	2,342
East Khandesh ...	3	3	58	21	10	89	720	3,450	658	4,828
West Khandesh ...	4	4	33	43	9	85	1,770	3,643	1,029	6,451
Nasik ...	4	4	65	235	37	337	937	3,490	868	5,285
Poona ...	4	4	232	318	138	688	1,601	3,439	1,332	6,372
Setara ...	4	4	16	70	5	91	872	3,445	687	5,204
Sholapur ...	4	4	58	219	40	317	871	2,808	1,164	4,843
Belgaum ...	5	5	49	237	131	417	922	4,321	1,322	6,565
Bijapur ...	5	5	58	129	15	202	1,121	1,953	806	3,880
Dharwar ...	6	6	44	188	22	254	695	4,529	1,761	6,985
Kanara ...	3	3	...	...	...	...	61	3,173	321	3,455
Kolaba ...	4	4	3	103	1	107	217	2,091	314	2,622
Ratnagiri ...	3	3	3	63	1	67	46	1,329	266	2,131
Total ...	73	73	1,033	2,752	576	4,361	16,360	53,212	15,539	85,161

  

District.	Grand total of in and out patients treated during the year.	Total number of cases supplied with medicines but not brought to the Dispensaries.	Castrations performed.				Receipts.	Expenditure.
			Equines.	Bovines.	Others.	Total.		
1	12	13	14	15	16	17	18	19
Ahmedabad ...	7,251	8,415	2	...	1	3	Rs. a. p.	Rs. a. p.
Broach ...	3,771	1,505	3	...	...	3	6,545 0 0	6,250 0 0
Kaira ...	5,054	3,944	2	...	...	2	4,519 0 0	5,330 0 0
Panch Mahals ...	1,420	919	1	...	...	1	4,476 0 0	3,858 0 0
Surat ...	4,544	3,238	3	73	6	87	1,200 0 0	1,132 0 0
Thana ...	2,933	1,681	...	6	...	6	15,647 0 0	8,059 0 0
Ahmednagar ...	3,090	537	3	19	5	27	13,147 0 0	5,129 0 0
East Khandesh ...	4,932	304	42	64	3	109	5,339 0 0	4,509 0 0
West Khandesh ...	5,673	4,316	252	23	3	278	3,039 0 0	4,353 0 0
Nasik ...	7,060	666	84	10	1	95	5,348 0 0	5,530 0 0
Poona ...	5,235	1,867	2	3	1	6	7,643 0 0	6,158 0 0
Setara ...	5,295	1,867	3	37	1	41	10,005 0 0	6,235 0 0
Sholapur ...	5,160	2,742	10	5	13	28	5,367 0 0	4,600 0 0
Belgaum ...	6,992	2,990	8	30	9	47	8,721 0 0	7,498 0 0
Bijapur ...	4,032	918	14	8	20	42	3,247 0 0	7,263 0 0
Dharwar ...	7,239	1,555	6	28	13	47	6,202 0 0	5,908 0 0
Kanara ...	3,455	2,872	1	49	17	67	14,478 0 0	9,084 0 0
Kolaba ...	2,729	3,480	...	30	3	33	7,415 0 0	3,574 0 0
Ratnagiri ...	2,198	5,617	...	11	...	11	4,330 0 0	4,543 0 0
Total ...	89,522	46,063	441	375	101	917	3,368 0 0	3,754 0 0

TABLE VII.

Showing total strength of subordinate veterinary staff employed during the year 1920-21.

Province.	How employed.	Whether paid from Provincial or Local Funds.	Veterinary Inspectors.	Veterinary Assistants.	Subordinate Training Staff.	Remarks.
1	2	3	4	5	6	7
Bombay Presidency.	In Schools and Colleges.	.....	...	...	...	
	In Dispensaries	Local	...	1	...	
		Provincial	...	...	72	...
	On other work	Provincial	...	5	16*	...
	Total	...	5	89	...	

TABLE X.

Return of horse, pony and donkey stallions under local bodies for the year ending 31st March 1921.

Details.	Horse and pony stallions under local bodies.									Donkey stallions under local bodies.					Remarks.	
	Horses.					Ponies.				Total horses and ponies.	Italian.	Cyprian.	Country bred.	Persian.		Total.
	Arab.	T. B. E.	Country bred.	Australian.	Total.	Arab.	Persian.	Country bred.	Total.							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Balance on 1st April 1920	18	...	8	1	17	19	...	2	21	38			Nil			
Increase	...	...	...	...	...	...	...	...	...	...						
Total	18	...	8	1	17	19	...	2	21	38						
Decrease	...	...	...	...	...	...	...	...	...	...						
Balance on 31st March 1921	18	...	8	1	17	19	...	2	21	38			Nil			

TABLE XI.

Service and produce of each class of horse, pony and donkey stallions during the year 1920-21.

Horse, pony or donkey.	Province.	Stallions on register on 31st March 1920.	Stallions actually employed at stud.		Number of mares covered.		Average number of mares covered per stallion employed at stud.		Remarks.
			Year under report.	Previous year.	Year under report.	Previous year.	Year under report.	Previous year.	
1	2	3	4	5	6	7	8	9	10
Horse	Deccan	10	9-92	9-61	367	363	37-00	37-77	
	Gujarat	7	6-91	7-11	281	258	40-67	36-29	
	Total	17	16-83	16-72	648	621	38-50	37-14	
Pony	Deccan	16	15-95	15-91	629	591	39-44	37-15	
	Gujarat	5	5-00	4-04	214	124	42-80	30-69	
	Total	21	20-95	19-95	843	715	40-24	35-84	
Donkey	Deccan	...	...	...	...	...	...	...	
	Gujarat	...	...	...	...	...	...	...	
	Total	...	...	...	...	...	...	...	
Grand Total	Deccan	26	25-87	25-52	996	954	38-50	37-68	
	Gujarat	12	11-91	11-15	495	382	41-56	34-26	
	Total	38	37-78	36-67	1,491	1,336	39-47	36-43	

TABLE XII.

Showing average cost of feed, keep and attendance, &c., of horse, pony and donkey stallions during the year 1920-21.

Province.	Horse.		Pony.		Donkey.		Remarks.
	Year under report.	Previous year.	Year under report.	Previous year.	Year under report.	Previous year.	
1	2	3	4	5	6	7	8
Deccan	Poona	...	...	823	811	...	...
	Ahmednagar	...	...	800	670	...	...
	Sholapur	...	...	806	885	...	...
	West Khandesh	...	...	830	844	...	...
	Nasik	...	...	858	826	...	...
Total	...	...	818	768	...	...	
Gujarat	Ahmedabnd	...	...	711	664	...	...
	Kaira	...	...	658	678	...	...
	Pauch Mahals	...	...	592	662	...	...
	Broach	...	...	694	937	...	...
	Palanpur Agency	...	...	...	577	...	...
Total	...	...	683	657	...	...	
Grand Total	...	...	772	726	...	...	

TABLE XIII.

Abstract of particulars regarding horse fairs or shows held during the year 1920-21.

District.	Number of horse fairs or shows held.	Total No. of animals present.		Total No. competing for prizes.		Total No. of horse stock (not including branded) present.		Number of remounts purchased.				Price paid for remounts.		
		Year under report.	Previous year.	Year under report.	Previous year.	Belonging to breeders.	Belonging to dealers.	For Remount Department.	For Native Cavalry.	For Police.	Total.	Highest price.	Lowest price.	Average price.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
								NH.						
District.	Number of mules purchased.			Price paid for mules by Government.			Total.	Price money awarded.						
	By Government.	By others.	Total.	Highest price.	Lowest price.	Average price.		Number of animals sold.	From Imperial Fund.	From Provincial Fund.	From Local Fund.	From other sources.	Total.	Amount actually paid.
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29
									NH.					
	Amount sanctioned by the Government of India for next year's fair or show.													
	Remarks.													

TABLE XIV-A.

Statement showing the cost of Civil Veterinary Department in the Bombay Presidency (Proper) during the financial year 1920-21.

Major Heads.	Amount.			Remarks.
	Provincial.	Local.	Total.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1. Superintendence ... ..	41,928 14 8	.....	41,928 14 8	
2. Veterinary Instructions ... ..	89,261 13 10	182 0 0	89,443 13 10	
3. Subordinate Establishment ... ..	1,23,773 2 4	37,236 1 8	1,61,009 3 7	
*4. Hospitals and Dispensaries ... ..	(A) 53,278 8 9	80,011 3 10	1,38,289 12 7	
5. Breeding Operations (Horse, etc.) ... ..	21,522 11 8	2,255 14 8	23,778 10 4	
6. Prizes ... ..	.....	.....	.....	
7. Fairs and Shows ... ..	.....	.....	.....	
Total ...	3,29,165 3 3	1,19,685 8 9	4,48,850 7 0	

	Rs. a. p.
* (A) Grants to Veterinary Hospitals and Dispensaries ... ..	81,976 11 10
Establishment under the Glanders and Farcy Act ... ..	21,301 12 11
Total ...	53,278 8 9

No. 646 of 1921.

## GENERAL DEPARTMENT (VETERINARY);

Office of the Commissioner in Sind,  
Government House, Karachi, 30th June 1921.

## MEMORANDUM.

The Commissioner in Sind has the honour to submit the report of the Superintendent, Civil Veterinary Department, Sind, on the working of the Veterinary Department during the year 1920-21.

2. Mr. Farbrother was in charge of the Department up to the 3rd February 1921, when he proceeded on combined leave. Khan Bahadur Haji held charge from the 4th February to the 28th March 1921, when the veterinary charge of Sind was separated from that of Baluchistan and Rajputana, and placed in charge of Mr. Jerrom from the 29th March 1921. As no officer has been appointed to hold veterinary charge of Baluchistan and Rajputana, this charge is held by the Sind Superintendent in addition to his regular duties.
 

Charge.
3. The year has been an unhealthy one for cattle and much disease prevailed. The total reported mortality from contagious disease rose from 1,688 in the previous year to 10,564 during the year under report. It is not improbable that the actual mortality was even heavier. The increase is chiefly due to very severe outbreaks of rinderpest. Contagious pleuro-pneumonia and anthrax were also responsible to some extent. The complaint again occurs that outbreaks of epidemic disease are not promptly reported by the tapadars and zamindars. The attention of the district officers is being drawn to this. The Commissioner has under consideration a scheme for the more efficient registration of human vital statistics, and he will consider the advisability of entrusting the work of reporting cattle epidemics to the same agency.
 

Mortality Statistics.
4. It is satisfactory to note that the number of inoculations against rinderpest rose from 975 in the previous year to 20,473 during the year under report. They are reported to have done much towards checking the mortality resulting from a widespread epidemic. Eleven camels and 251 cattle were inoculated during the year with anthrax and hæmorrhagic septicæmia serum respectively. Inoculation work was vigorously carried on, especially in the Upper Sind Frontier district.
 

Inoculation.
5. No new dispensaries were opened during the year under report. To meet the demand for additional Veterinary Assistants, Government, in their Order No. 1734, dated 11th June 1920, sanctioned the deputation of two additional students during the year 1920, and also increased temporarily the rate of the scholarship to meet the high cost of living.
 

Dispensaries.
6. The aggregate number of cases treated at the several dispensaries rose from 18,527 in the previous year to 19,170 during the year under report, and the number of animals treated on tour rose from 4,728 to 5,378. The increase is inconsiderable, but no great development in this respect can be expected until the staff of the department is sufficiently strengthened to admit of extensive operations throughout the mofussil.
 

Professional work.
7. There were seven stipendiary students studying at the Bombay Veterinary College. Of these four appeared for the 2nd and three for the 1st Professional Examinations. All the students passed and were promoted to higher classes.
 

Veterinary instruction.
8. The District Local Board Arab stallion standing at Larkana covered 67 mares against 59 during the previous year, and 2 District Local Board bulls in the Upper Sind Frontier district covered 112 cows against 63 last year.
 

Breeding operations.

9. The question of the selection of a site for the Willingdon Cattle Farm near Karachi has now been decided, and the work of the farm will be started in kacha huts for the present. A Veterinary Assistant specially trained for the purpose will remain in charge of the Farm.

10. The total expenditure of the department during the year amounted to Rs. 1,23,090, as compared with Rs. 1,24,500 in the preceding year.

11. Orders for the separation of the Sind Veterinary charge from that of Baluchistan and Rajputana and the placing of the former under a full-time Superintendent have been received, but orders on the remaining reorganization proposals are still awaited.

The question of the provision of an isolated ward is still under correspondence with the Municipality.

12. The department has done a good year's work, but there is no doubt that there is scope for very much greater activity. Until the separation of the Sind charge is more than a mere arrangement on paper and until a staff of Veterinary Inspectors is appointed for Sind to assist the Superintendent and the Deputy Superintendent, the department will continue to labour under a heavy handicap.

J. L. RIEU,  
Commissioner in Sind.

To  
THE SECRETARY TO GOVERNMENT,  
Revenue Department, Bombay.

No. 1409—C-IV-3.

Address:—Post Box No. 131.  
Karachi.

From **J. H. G. JERROM, ESQUIRE, I.C.V.D.,**  
Superintendent, Civil Veterinary Department, Sind ;

To **THE UNDER SECRETARY TO GOVERNMENT,**  
Revenue Department, Bombay.  
(Through :—The Commissioner in Sind.)

Karachi, dated the 24th June 1921.

Sir,

I have the honour to submit, for the information of His Excellency the Governor in Council, the Annual Administration Report of the Civil Veterinary Department, Sind, for the official year 1920-21.

I have the honour to be,

Sir,

Your most obedient servant,

**J. H. G. JERROM, I.C.V.D.,**  
Superintendent, Civil Veterinary Department,  
Sind.

**ANNUAL ADMINISTRATION REPORT OF THE CIVIL VETERINARY DEPARTMENT, SIND, FOR THE YEAR 1920-21.**

*General Administration.*

Mr. E. S. Farbrother, I.C.V.D., held charge of the office of Superintendent, Civil Veterinary Department, Sind, Baluchistan and Rajputana, from 1st April 1920 to 3rd February 1921 when he proceeded on combined leave. Khan Bahadur S. G. Haji held charge from 4th February to 28th March 1921. The veterinary charge of Sind was separated from that of Baluchistan and Rajputana with effect from the 29th March 1921 and Mr. J. H. G. Jerrom held charge of the office of Superintendent, Civil Veterinary Department, Sind, from 29th March 1921.

2. Mr. E. S. Farbrother was on tour in Sind for 89 days and travelled 3,504 miles by rail and 447 miles by road. He inspected all the veterinary dispensaries except Matli and when possible attended outbreaks of epidemic disease. He assisted on the Judging Committee of the Jacobabad Horse Show and the Pony Show held at Ghotki. He visited the Thado Nai site of the Willingdon Cattle Farm on several occasions.

3. Khan Bahadur S. G. Haji while acting as Superintendent, Civil Veterinary Department, Sind, Baluchistan and Rajputana, was on tour in Sind for 26 days and travelled 1,447 miles by rail and 121 miles by road. He inspected the veterinary dispensaries at Karachi, Hyderabad, Mirpurkhas, Larkana and Sukkur. He checked the work of the Veterinary Assistants as far as possible, visited the Thado Nai site of the Willingdon Cattle Farm and the grass land at Dehs Phihai and Sharabi and attended the Cattle Show held at Larkana. He also visited the Agricultural Department's farm at Landhi to inspect the cattle of the Willingdon Cattle Farm.

4. Khan Bahadur S. G. Haji remained on six months' privilege leave upto the 8th July 1920. He held the post of the Deputy Superintendent, Civil Veterinary Department, Sind, from 9th July 1920 to the end of the year under report. He was on tour in Sind for 58 days and travelled 1,850 miles by rail and 687 miles by road. He inspected the veterinary dispensaries at Karachi, Hyderabad, Matli and Tatta. He dealt with cases of glanders at Karachi and Hyderabad and checked the work of the Veterinary Assistants when possible. He was deputed to Khairpur State to advise treatment of camels suffering from Surra.

*Veterinary Instruction.*

5. There were 4 stipendiary students at the Bombay Veterinary College at the beginning of the year, and four were sent during the year. One scholarship was discontinued as the student did not return from leave. There were thus 7 scholars studying at the College at the close of the year.

*II.—Treatment of disease.*

6. During the year outbreaks of contagious disease were reported from every district in the province. The recorded number of deaths was 10,564 against 1,688 last year. The increase in mortality is chiefly due to some very severe outbreaks of rinderpest in Sind.

It is regretted that outbreaks of epidemic disease are not promptly reported by the tapedars and zamindars. Many of the outbreaks were not reported at all, while some were reported so late that the disease had died out on arrival of the Veterinary Assistants to the scene of outbreaks. It is strongly recommended that the district officers will again impress upon the reporting officers the advisability of making prompt reports to the Veterinary Assistants.

*Equine contagious disease.*

7. *Glanders.*—Thirty-seven cases of glanders were destroyed in Karachi and eight in Hyderabad under the Glanders and Farcy Act.

8. *Strangles*.—The disease was reported from the Karachi, Hyderabad, Thar Parkar, Nawabshah, Larkana and the Upper Sind Frontier districts. One hundred and twenty-two animals were attacked and 4 died.

9. *Surra*.—Ninety-one animals were attacked and all died or were destroyed under the Glanders and Farcy Act in the Karachi, Hyderabad, Thar Parkar, Nawabshah, Larkana and Upper Sind Frontier districts.

10. *Other contagious diseases*.—Fifteen animals died from other contagious diseases comprising rabies, tetanus and piroplasmosis.

*Bovine contagious disease.*

11. *Rinderpest*.—The disease was reported from each district except Karachi. Twenty-one thousand nine hundred and eleven head of cattle were attacked and 8,273 died.

12. *Foot-and-Mouth disease* was reported from all districts. Three thousand one hundred and forty-one animals were attacked and 59 died.

13. *Hæmorrhagic Septicæmia*.—One hundred and ninety-four head of cattle died out of 202 attacked.

14. *Black Quarter*.—Twenty-four head of cattle were attacked and all died in the Nawabshah and Sukkur districts.

15. *Anthrax*.—Three animals were attacked and all died in the Upper Sind Frontier district.

16. *Other contagious diseases* comprised rabies, liver rot and piroplasmosis. Twenty-seven animals died out of 41 attacked.

*Contagious disease among other animals.*

17. *Anthrax*.—Four hundred and two animals were attacked and all died in the Karachi, Hyderabad, Larkana and Upper Sind Frontier districts. These figures include 258 cases in the Hala taluka of the Hyderabad district and the Jacobabad taluka of the Upper Sind Frontier district which could not be confirmed as the disease was reported after it had actually died out.

18. *Rinderpest*.—Twenty-four goats were attacked and 22 died in the Upper Sind Frontier district.

19. *Contagious Pleuro Pneumonia*.—One thousand three hundred and ninety goats were attacked and 1,294 died.

20. *Foot-and-Mouth disease*.—Seven hundred and twenty-four animals were attacked and 38 died.

21. *Surra*.—Only two cases of surra among camels were reported from Karachi and Nawabshah district and both died.

22. *Other contagious diseases*.—Seventy-one animals died of other contagious diseases comprising mange, variola, distemper, piroplasmosis and rabies.

*Preventive measures.*

23. The number of inoculations against rinderpest amounted to 20,473. In the outbreaks in which inoculation was performed, 4,635 uninoculated animals and 263 inoculated animals died. This shows the very great value of rinderpest inoculation when used in time.

Table III.

24. Eleven camels were inoculated with anthrax serum in Karachi.

25. Two hundred and fifty-one head of cattle were inoculated with hæmorrhagic septicæmia serum. Fourteen uninoculated animals died in the course of the outbreaks. No deaths occurred amongst inoculated animals.

*Other diseases.*

26. The numbers of villages visited by the Veterinary Assistants was 2,083 against 1,812 last year. During their tours they treated 3,768 cases of contagious and 1,910 of non-contagious disease. The number of castrations performed was 2 against 26.

Table IV.

*Investigation.*

27. During the year the subordinate staff from Sind and Baluchistan submitted as usual a large number of specimens to the Superintendent for microscopical examination from suspected cases of surra, anthrax, piroplasmosis, scab and mange.

Brains of 13 cases of rabies were sent by the Veterinary Assistants, Karachi and Hyderabad, to the Director of Pasteur Institute, Kasauli, for opinion.

*Veterinary Dispensaries.*

28. There were 15 veterinary dispensaries working in the province as last year. The total number of patients treated at dispensaries was 19,170 against 18,527 in the previous year. Medicine and advice were given to the owners of 3,288 animals which were not brought to the dispensaries, making a total of 22,458 animals treated and supplied with medicines as compared with a total of 22,348 animals treated and supplied with medicine in the previous year.

The number of castrations performed at dispensaries was 80 as against 45 in the previous year.

Rs. 491-12-0 were realised in fees at the Hyderabad Veterinary Dispensary, Rs. 1,257-14-0 at the Shikarpur Dispensary, Rs. 127-8-0 at the Larkana Dispensary and Rs. 7,238-8-0 as treatment fees and shoeing charges at the Karachi Dispensary.

## III.—BREEDING OPERATIONS.

*(1) Equines.*

29. The Arab stallion 'Bahadur' maintained by the District Local Board, Larkana, is under the control of the Civil Veterinary Department. He covered 67 mares against 59 last year.

Tables X, XI, XII.

The cost of feed and upkeep of the stallion was Rs. 737 against Rs. 666 in the previous year.

*(2) Bovines.*

30. There were 2 District Local Board bulls in the Upper Sind Frontier district. They covered 112 cows against 63 last year.

Table VIII.

31. Water testing on the site selected for the Willingdon Cattle Farm has not yet been completed. The Superintendent proposes to start the Farm by housing the cattle from Landhi in kutchha buildings pending construction of pucca ones. Owing to scarcity of rain no hay was stacked during the year.

32. There were 33 Karachi cattle on the Agricultural Department's Farm at Mirpurkhas at the beginning of the year. During the year 3 bull calves and 4 heifers were born and 1 cow, 1 calf and 1 heifer died. There were thus 37 head of cattle at the close of the year, viz. :—

Bulls and calves	...	...	18
Cows and heifers	....	....	19

The Willingdon Cattle Farm cattle were removed to Landhi.

*(3) Others.*

33. There were two Tigris ewes, the same number as last year.

*Fairs and Shows.*

34. One cattle show was held at Larkana in conjunction with the Pony Show during the year. One hundred and thirty-three animals were exhibited and Rs. 330 and two silver medals were awarded in prizes from provincial and local funds as against 173 cattle exhibited and Rs. 186 and 2 silver medals awarded last year.

Table XIV.

## IV.—SUBORDINATE ESTABLISHMENT.

35. There were 17 Veterinary Assistants, *viz.*, 15 in charge of dispensaries and 2 reserve men, the same number as last year.  
 Table VII. Two of the Veterinary Assistants in charge of dispensaries are paid by District Local Boards, the remainder are Government servants.

36. Mr. A. G. Kaka who was deputed to undergo a course of dairying and dairy farming at the Poona Agricultural College in June 1920 passed the course in February 1921. He was attached to the Richmond Crawford Veterinary Dispensary, Karachi, pending the opening of the Willingdon Cattle Farm.

37. The following Veterinary Assistants did commendable work during the year :—

(1) Rao Sahèb Asudamal	...	...	Hyderabad.
(2) Mr. L. K. Vedh	...	...	Shikarpur.
(3) Mr. C. S. G. Haji	...	...	Karachi.
(4) Mr. W. K. Abasi	...	...	Kandkot.
(5) Mr. Abdul Majid	...	...	Mirpurkhas.
(6) Mr. S. A. Gulrajani	...	...	Nawabshah.

## V.—EXPENDITURE OF THE DEPARTMENT.

Table XIV-A. 38. The expenditure of the department is shown in table XIV-A.

## VI.—GENERAL REMARKS.

39. Although the total number of cases treated or supplied with medicines is only 110 in excess of last year's total, much more work was done in the districts by the Veterinary Assistants, especially rinderpest inoculation.

The appointment of Deputy Superintendent has been extended until the retirement of Khan Bahadur S. G. Haji but the Government has not yet sanctioned the posts of Veterinary Inspectors for Sind. These appointments are essential if the work of the Veterinary Assistants is to be properly supervised. It is impossible for the Superintendent and Deputy Superintendent to continually check the work of individual Veterinary Assistants, especially when there are severe outbreaks of rinderpest to be attended to.

J. H. G. JERROM, I.C.V.D.,  
 Superintendent, Civil Veterinary Department,  
 Sind.



TABLE IV.

Showing the number of animals treated and castrated by Veterinary Assistants on tour during 1920-21.

District.	Number of villages visited.	Number of Veterinary Assistants employed.	Castrations performed.				Treated for contagious diseases.				Treated for non-contagious diseases.				Total number of castrations performed.	Remarks.
			Equines.	Bovines.	Others.	Total.	Equines.	Bovines.	Others.	Total.	Equines.	Bovines.	Others.	Total.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Karachi	198	8	...	...	...	...	5	417	...	422	148	815	108	869	961	
Hyderabad	175	8	...	...	...	...	37	88	77	302	140	80	80	249	451	
Newabshah	375	2	...	...	...	...	...	71	5	78	120	81	78	344	320	
Thar Parker	132	1	...	...	...	...	10	92	7	109	68	11	20	97	206	
Sukkur	307	2	1	...	...	1	...	1,114	21	1,135	151	109	15	368	1,404	
Larkana	160	2	...	...	...	...	2	594	81	677	55	45	28	138	805	
Upper Sind Frontier	745	2	...	1	...	1	15	848	284	1,147	223	102	20	355	1,503	
Total	2,088	15	1	1	...	2	70	3,323	475	3,798	601	676	333	1,610	5,409	

TABLE V.

Showing number of animals treated and castrated at Veterinary hospitals and dispensaries during the year 1920-21.

District.	Number of Veterinary dispensaries.	Number of Veterinary Assistants employed.	Number of in-patients treated during the year.				Number of out-patients treated during the year.				Grand total of in-patients and out-patients treated during the year.	Total number of castrations performed during the year but not brought to the dispensary.	Castrations Performed.				Receipts.	Expenditure.		
			Equines.	Bovines.	Other animals.	Total.	Equines.	Bovines.	Other animals.	Total.			Equines.	Bovines.	Other animals.	Total.			Rs. a. p.	Rs. a. p.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
Karachi	1	1	360	189	158	651	1,453	879	1,006	3,340	2,881	43	11	4	2	17	12,871	0	10,178	0
Bulawal District	1	1	30	1	10	50	352	146	216	714	754	1,063	3	1	...	4	2,254	0	2,254	0
Tatta, District	1	1	42	19	19	81	330	305	323	867	945	254	...	...	1	1	1,715	0	1,715	0
Karachi	1	1	48	20	30	98	616	659	936	2,283	3,331	439	5	2	3	9	3,324	0	6,113	0
Hyderabad (Sind)	1	1	25	...	2	27	253	55	351	679	706	151	1	...	2	3	2,224	0	1,959	0
Hala, District	1	1	...	...	...	...	971	86	236	599	599	88	...	1	...	1	5,535	0	2,659	0
Mati, District	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyderabad	1	1	45	7	19	72	859	135	341	835	907	96	...	4	...	4	5,265	0	5,791	0
Mirpurkhana, District	1	1	98	...	5	53	335	37	223	635	666	94	3	...	...	2	23,225	0	29,171	0
Thar Parker	1	1	31	...	3	34	264	133	302	806	830	180	2	1	...	3	2,657	0	2,415	0
Newabshah	1	1	23	2	2	27	405	178	259	675	504	226	...	...	...	...	2,774	0	1,398	0
Naushahro Feroz, District	1	1	110	57	13	180	797	969	363	2,168	2,353	124	4	...	...	4	6,184	0	5,203	0
Sukkur	1	1	57	13	7	77	474	411	330	1,214	1,201	110	15	...	1	16	3,265	0	3,265	0
Dadu, District	1	1	34	1	4	39	379	143	351	788	817	195	1	...	1	1	3,214	0	1,468	0
Larkana	1	1	37	4	2	43	524	368	237	1,129	1,233	142	9	...	4	18	2,097	0	2,097	0
Jacobabad, District	1	1	62	9	2	73	526	130	59	723	728	81	1	1	...	2	2,097	0	1,622	0
Upper Sind Frontier	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kandkot, District	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Upper Sind Frontier	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	18	15	987	233	270	1,500	7,379	4,754	5,535	17,668	12,170	2,353	54	14	80	80	54,669	0	69,219	0



TABLE XI.

*Services and Produce of each class of Horse, Pony and Donkey Stallions under Local Bodies during 1920-21.*

Horse, pony or donkey.	District.	Stallion on register on 31st March.	Stallions actually employed at stud.		Number of mares covered.		Average number of mares covered per stallion employed at stud.		Remarks.
			Year under report.	Previous year.	Year under report.	Previous year.	Year under report.	Previous year.	
1	2	3	4	5	6	7	8	9	10
Horse									
Pony	Larkana...	1	1	1	67	69	67	69	
	Total ...	1	1	1	67	69	67	69	
Donkey									
Grand Total	Total ...	1	1	1	67	69	67	69	

TABLE XII.

*Showing average cost of feed, keep, attendance of Horse, Pony and Donkey Stallions during the year 1920-21.*

District.	Horse.		Pony.		Donkey.		Remarks.
	Year under report.	Previous year.	Year under report.	Previous year.	Year under report.	Previous year.	
1	2	3	4	5	6	7	8
Larkana	Rs.	Rs.	Rs. s. p.	Rs. s. p.	Rs.	Rs.	
	...	...	787 0 0	666 0 0	...	...	
Total	...	...	787 0 0	666 0 0	...	...	

TABLE XIV.

*Abstract of particulars regarding Cattle Fairs and Shows held during the year 1920-21.*

District.	Number of cattle fairs and shows held.	Total number of animals present.							Average price of animals sold.					Prize money provided.					Remarks.				
		Bulls.	Bullocks.	Cows.	Young stock.	Buffaloes.	Camels.	Others.	Bulls.	Bullocks.	Cows.	Buffaloes.	Camels.	Amount realized in fees.	Total number of animals that competed for prizes.	From Imperial funds.	From Provincial funds.	From Local funds.		From other sources.	Total.	Amount actually awarded.	Number of medals awarded.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Larkana	1	49	56	17	1	10	...	...	...	...	...	...	...	...	123	...	100	230	...	330	330	2	
Total	1	49	56	17	1	10	...	...	...	...	...	...	...	...	123	...	100	230	...	330	330	2	

TABLE XIV-A.

Statement showing cost of the Civil Veterinary Department in the Province of Sind during the financial year 1920-21.

Major Heads. 1	Amount.				Remarks. 6
	Imperial.	Provincial.	Local.	Total.	
	Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1. Superintendence ...	.....	33,109 0 0	.....	33,109 0 0	
2. Veterinary Instruction ...	.....	.....	.....	.....	
3. Subordinate Establishment...	.....	24,522 0 0	9,568 0 0	33,780 0 0	
4. Hospitals and Dispensaries ...	.....	11,819 0 0	42,479 0 0	54,398 0 0	
5. Breeding operations ...	.....	.....	980 0 0	980 0 0	
6. Prizes ...	.....	480 0 0	445 0 0	925 0 0	
7. Fairs and Shows ...	.....	.....	.....	.....	
Total ...	.....	69,938 0 0	63,160 0 0	1,33,098 0 0	

Annual Reports.

Annual Administration Reports  
of the Bombay Veterinary  
College, the Bombay City  
and Harbour Veterinary De-  
partment and the Civil  
Veterinary Department in  
the Bombay Presidency in-  
cluding Sind for 1920-21.

GOVERNMENT OF BOMBAY.

Revenue Department.

Resolution No. P.-52 (3).

Secretariat, Fort, Bombay,

Dated the 20th October 1921.

Letter from the Principal, Bombay Veterinary  
College, No. 530 dated 7th May 1921.

Letter from the Principal, Bombay Veterinary  
College, No. 135-L. dated 7th May 1921.

Letter from the Superintendent, Civil Veterinary  
Department, Sind, Baluchistan and Rajputana No. 1409-C.  
IV-5 dated 24th June 1921.

Letter from the Superintendent, Civil Veterinary  
Department, Bombay Presidency, No. 2557 dated 27th June  
1921.

Memorandum from the Commissioner in Sind No. 646  
dated 30th June 1921.

RESOLUTION.—Recorded.

By order of the Government of Bombay  
(Transferred Departments),

SHAMRAO D. MANKAR,

Under Secretary to Government.

To

- \* The Commissioner in Sind,
- \* The Commissioners of Divisions,
- \* All Collectors, including the Deputy Commissioner,  
Upper Sind Frontier,
- \* The Director of Agriculture,
- \* The Superintendent, Civil Veterinary Department,  
Bombay Presidency,

\* With copies of the reports.

Ml. Rev. 913

(P. T. O.)

- \* The Superintendent, Civil Veterinary Department,  
Sind, Baluchistan and Rajputana,
- \* The Principal, Bombay Veterinary College,
- \* The Sanitary Commissioner for the Government of  
Bombay,
- x The Municipal Commissioner for the City of Bombay,
- x The Agricultural Adviser to the Government of  
India,
- x The Secretary to the Society for the Prevention of  
Cruelty to Animals,
- x The Government of India,
- x The Under Secretary of State for India.

\*With copies of the reports.

x By letter.

Ml. Rev. 913

No. of 1921.

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