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Contributors

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BOROUGH OF DURBAN

ANNUAL REPORT

of the

MEDICAL OFFICER OF HEALTH

For the Year Ending 30th JUNE, 1932



BOROUGH OF DURBAN.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

(Dr. G.H.Gunn, M.D. ChB.D.P.H.)

1931 - 1932.

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PUBLIC HEALTH DEPARTMENT, OLD COURT HOUSE, DURBAN.

1st August, 1932.

To His Worship the Mayor & Town Councillors of the Borough of Durban.

Mr. Mayor, Lady & Gentlemen,

I have the honour to present herewith the Thirtyfirst Annual Report dealing with the health and sanitary conditions of the Borough of Durban, for the year ended 30th June, 1932.

I am,

Your obedient servant,

MEDICAL OFFICER OF HEALTH.

REPORT "A".

1. VITAL STATISTICS.

(i) Population.

The following table shows the estimated population for the year 1931-1932, the last census of the Borough being shown in comparison.

	Government Census. Europeans only. 1931.	Municipal Estimate 1932.
Europeans Coloured Natives Asistics	59,250 4,240 43,750 17,860	59,480 4,290 43,750 18,500
	125,100	126,020

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(ii) Births.

The following table shows the recorded births - all races - and birth rates in the case of residents only, the past nine years.

BIRTHS	:							
was	EURC Births	PEAN Rates	COLOU Births	The same of the sa	NAT: Births		ASI Births	ATIC Rates.
1924 1925 1926 1927 1928 1929 1930 1931 1932	919 1025 - 1220 986 984 973 954 920	18.09 19.95 19.63 22.54 17.34 17.31 16.06 15.75 15.46	92 82 117 127 136	12.02 45.7 48.91 31.01 34.70 31.00 32.84 33.23 37.29	19 40 37 21 49 76 129 126 181	1.17 1.43 0.97 0.55 1.54 1.80 2.72 2.88 4.13	770 665 909 792 679 762 658 7 5 8 826	47.67 39.76 54.09 46.65 39.94 44.33 37.96 42.44 44.64

ILLEGITIMATE BIRTHS - BOROUGH RESIDENTS.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EUROPEAN M. F.	COLOURED M. F.	NATIVE M. F.	ASIATIC.
Births Percentages	17 9 2.8	22 20 26.2	61 55	1 -

STILL BIRTHS.

The relaceing tous	EUROPEAN	COLOURED.
Notified Registered	23	3 8
neg1stered	7 1928 1929 13	19.70

BIRTHS.

The European Birth Rate, 15.46 is the lowest on record. The continued economic depression has undoubtedly had a lowering effect on the Birth Rate, which has been decreasing steadily since 1927. The Non-European Birth Rate, on the other hand, continues to increase, more especially that of the Nativ section.

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(iii) DEATHS :

The European Death Rate, 8.45 per thousand of the population, was lower than that of the two previous years. Non-European Death Rates also showed a decrease, except in the case of the Coloured Section, for which the Death Rate was 15.62 as compared with 12.97 in the previous year.

TABLE SHOWING BOROUGH DEATHS & RATES FOR A PERIOD OF NINE YEARS.

YEAR	EUROPEAN Deaths:Rates_					NATIVES Deaths:Rates		ASIATICS Death:Rates	
1924	473	9.31	23	5.14	234	6.68	300	18.57	1,030
1925	537	10.95	55	29.92	242	8.65	314	20.77	1,148
1926	460	8.81	59	31.36	275	7.23	303	18.03	1,097
1927	507	9.37	62	23.45	287	7.55	319	18.79	1,175
1928	476	8.37	40	11.83	248	6.49	269	15.82	1,033
1929	503	8.42	42	10.25	285	6.75	250	14.54	1,080
1930	508	8.83	5	1.20	319	7.31	266	15.35	1,098
1931	561	9.47	55	12.97	349	7.97	231	12.93	1,196
1932	502	8.45	67	15.62	318	7.27	210	11.35	1,097

INFANTILE MORTALITY:

The following table shows the Infantile Mortality figure over the past 8 years (Borough Europeans only).

sugardly to exc	1925	1926	1927	1928	1929	1930	1931	1932
Deaths	.83.84	47	35	44	46	36	36	44
Mortality Rate		45.81	36.3	44.62	46.64	36.99	37.73	47.82

The European Infantile Mortality shows an increase - 44 as compared with 36 in each of the two previous years.

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The case of the Colument September of the previous year. The which the Death Rese

TABLE SHOWING BORONNE BEATHS & HATES FOR A

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INFANTILE MORTALITY - AGES AND CAUSES OF DEATH.

Bronchitis Diarrhoea & Enteritis Congenital Debility Prematurity Broncho-Pneumonia Congenital Heart Intestinal Obstruction Whooping Cough Syphilis Spina-Biffida Convulsions Hydrocephalus Meningcoccus Meningit is Acute Endocarditis Other diseases of Stomach Injury at Birth Other diseases peculiar to early infancy. Cerebral Haemorrhage Ill-defined. 1 2 2 2 2 6 6 2 2 2 2 6 6 2 2 2 2 2 6 6 3 2 2 2 2 2 2 2 3 6 7 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Veeks	2-4	1-3	Month 3-6	s. 6-12	Total under l year.
	Diarrhoea & Enteritis Congenital Debility Prematurity Broncho-Pneumonia Congenital Heart Intestinal Obstruction Whooping Cough Syphilis Spina-Bifida Convulsions Hydrocephalus Meningcoccus Meningit is Acute Endocarditis Other diseases of Stomach Injury at Birth Other diseases peculiar to early infancy. Cerebral Haemorrhage	11 1 1 1 1 1 1	1	1	1 1 1	1 1	2 1 1 1 1 1	16 11 4 5 1 1 1 1 1 1 1

The European Maternal Mortality Rate was slightly in excess of that of the previous year, being 3.28 as compared with 2.09 per thousand births.

Table showing the Maternal Mortality figure for the past five years.

- Duberunlonis -	1928	1929	1930	1931	1932
Deaths Mortality Rate	4.05	3.04	4 4.11	2 2.09	3 3.28

THE MORTALITY - ACES AND CAUSE OF DEATH.

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		±9.6	4.05	93	

PERCENTAGES OF DEATHS AT VARIOUS AGE PERIODS (EUROPEANS)

COLOR NO. 1		
Age Period	No. of Deaths	Percentages of Total Deaths at all ages.
Under 1 year 1 - 2 years 2 - 5 years	44 2 6	8.9 0.5 1.0
1 - 5 years	53	10.4
5 -15 years 15-25 years 25-45 years 45-65 years 65 years & Over	5 14 66 185 180	1.0 2.7 13.1 36.7 37.7
TOTAL:	502	

TABLES SHOWING DEATHS FROM CERTAIN MAIN CAUSES 1930/31 & 1931/32.

Diseases.	No.of De 1929/30:		Proportion deaths from es.1929/30:	all caus
Infective Intestinal Diseases (Enteric Fever Dysentry, Diarrhoea & Enteritis) Cancer Heart & Circulatory Sys Diseases of Nervous Sys Diseases of Birth & Early Development Pneumonia & Bronchitis Pulmonary Tuberculosis (Incl. Phthisis) Tuberculosis - Other forms Genito-Urinary	29 69 136 20 14 41 32 4 32	19 71 101 30 15 32 20 2	52 121 242 35 26 73 57 7 57	37 141 201 59 30 63 39 4 73

There were fewer deaths from Infectious Intestinal Diseases, Heart & Circulatory Diseases, Pneumonia & Pulmonary Tuberculosis than in the previous year.

PERCENTAGES OF DEATHS AT VARIOUS ACE PERIODS (SUROPEANS)

	Under I year OL + 2 years E - 5 years
	I - 5 years
1,0 18,7 18,1 36,7 87,7	

TABLES SHOWING DEATHS FROM CERTAIN MAIN CAUSES

				Diseases (Interio Fever
				Bysentyy; Diarrinces &
				Entertista)
		88		
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		BE	63 1 1 1 1	
1				perculosis - Other Terms
	37,			vantau-osta

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Masses, Rest & Circulatory Diseases, Preumonia & Fulmonary

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TABLE "B" SHOWING DEATHS FROM CERTAIN MAIN CAUSES - OTHER THAN EUROPEANS.

332		200	NUMBER	NUMBER OF DEATHS.	RES COMP	Dys	PROPO	RTION PE	PROPORTION PER 1,000 DEATHS FROM ALL CAUSES	ATHS FRO	M ALL CA	USES
stant or In	Colo 1930/31	Coloured. 1930/31;1931/32	Nati 1930/31:	Natives. 1930/31:1931/32	1930/	Asia tics. 31,1931/32	Coloured 1930/31;193	Coloured 1930/31:1931/32	Native 1930/31:1931/32	1931/32	Asiatics. 1930/1:1931	tics. 1931
Infective Intestinal Dis- eases (Enteric Fever,	010 -	nia -		sta -	us (no	4.3a	- Pi	Gragh La & G	010.70	Saccial Server		
Enteritis)	4	9	38	35	24	20	73	68	109	110	104	0
	7	co .	n	03	4	က	18	29	00	9	17	1
Heart & Circulatory Sys	4	5	22	15	10	10	73	74	63	47	43	4
Wervous System	4	5	9	7	11	7	73	74	25	22	47	3
Birth & Early Development.	9	2	22	25	24	17	109	74	77	78	104	00
Pneumonia & Bronchit is	7	13	54	55	50	47	127	191	154	172	215	22
Uberculosis Pulmonary	9	П	20	42	18	16	182	164	143	132	78	7
Tuberculosis - Non.Pulm	1	01	ro •	n	00	o.	1 2	53	14	6	36	4
	-	-	-	-	-			-		-		

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DEATH RETURNS.

PRODUCE			BOI	ROUG	H	Ī	MP	ORTE	<u>D</u> .
EPIDEM	IC, ENDEMIC, CONTAGIOUS & INFECTIOUS DIS.	E	C.	. N	<u>A</u> .	E.	C.	. N.	A.
001/1	Enteric Fever	4	1	7	2	3	2	14	1
001/2	Paratythoid Fever	-	-	7	-		-	1	-
005/1	Malaria	28	4	42	15	20	4	121	6
007/x	Measles	-	-	-	3-	1	-	1	_
009/x	Who oping Cough				3	-	-	-	_
010/x	Diphtheria & Croup	-	1	-	-	3	-	-	-
011/1	Influenza - Pulm. Complications	9	-	-	_	-	-	-	_
011/2	Influenza - without Pulm. Comp						-	-	_
016/1	Dysentery - Amoebic	-	-	3	1	3	1	9	-
016/2	Dysentery - Bacillary	2	2	1	_	1	2	11	_
016/3	Dysentery - Other	-	-	12	1	_	_	51	_
021/x	Erysipelas (non-puerperal)	1	-	-	_	1	_	1	_
023/x	Encephalitis - Lethangea	-	-	-	-	1	-	_	_
024/x	Meningitis - Cerebro-spinal	1	1	1	_	1	-	1	_
029/x	Tetanus	1	-	1	1	-	_	1	_
031/x	Tuberculosis - Pulm	18	11	37	13	7	11	84	6
032/x	Tuberculosis - Meningeal	-	1	_	1	1	-	1	2
033/x	Tuberculosis - Abdominal	-		1	5	-	-	2 -	1
034/x	Tuberculosis - Vertebral Column	_	-	-	_	_	-	2	_
035/x	Tuberculosis - Joints	-	-	-	-	1	_	-	-
036/3	Tuberculosis - Lymphatic System	-	-	-	-	_	-	1	-
036/5	Tuberculosis - Other Organs	-	-	-	-	-	-	3	-
037/1	Tuberculosis - Acute Disseminated	1	1	-	-	-	-	-	1
037/2	Tuberculosis - Chronic disseminated	1	-	2	3	-	1	12	2
038/x	Syphilis	3	-	14	-	-	-	14	1
041/x	Purulent Infection	5	-	1	-	3	2	2	-
042/x	Other Infections	1	-	-	_	-	-	-	-
							-	- 10	

DEFTER BIARD

200	HOUGH	d		
8 0 B.	4.3.	2	E .	PIG SUOT WINEY, ALMOTORYMOD, ODERSHEDDI
PI BI 8	8 8	1		Enteric Fever william and
1/2 -		-	**	Pomatychold Fever
20 4 12	48 18	pr. 1	88	Makaria sinasa
I - I				Weastles
			E.	Whooping Cough
				Diphtheria & Croup
				Tofluenza - Pulm. Complications
				Influenza - without Fulm. Comp
				Dysenbery - Amgebic
				Dysentery 4: Badillary
				Dysentery - Other
				Arysipelas (non-puerpores)
				Eucephalitis - Lethangea
				Meningibis - Carapro-apinal
1				annagar
				ruberculosts - Pulmananana
				Tuberculosia - Meningeol
				Tuberculosis in a landamines
š				1 mented lended wev - sheetworedur
				sinto - stackuonadul
				Tuberculosis - Lymphatic System
				Tuberculous of Char Organs
				Tuberculosis - Acute Disseningted
				Tubersulosis - Curquid discominated
14				Purulent Infection
8 8 8			13	The second secon
				- BROLOPSHA CONS

BOROUG	-		PORTE	
VENEREAL DISEASES NOT INCLUDED IN CLASS I. E. C. N.			C. N.	
BROUGHT FORWARD: 78 22 125	45	46 2	3 332	50
043/x Cancer - Buccal Cavity 7	=	7	- 1	-
044/x Cancer - Stomach, Liver & Oesophagus 21 2 1	2	8 -	4	1
045/x Cancer - Peritoneum, Intestines Rect. 8	-			-
046/x Cancer - Female Genital Organs 12	1	4 :	1 1	2
047/x Cancer - Breast 10	-	3	1 -	-
049/x Cancer - Other & Unspecified Organs 13 - 1	-	1 .	- 7	1
050/x Other Tumours 1	-			-
051/x Rheumatic Fever 2	-			-
052/x Chronic Rheumatism & Gout 1	-	1 .		-
054/x Pellagra	-		- 1	-
057/x Diabetes 14	2	1 .	- 1	1
058/l Pernicious Anaemia 4	-			-
058/2 Other Anaemias & Chlorosis 1	1	2 .		-
060/1 Exophthalmic Goitre 2	-	2 .		-
065/1 Leucaemia 4	-	-		
065/2 Lymphadenoma, Hodgkins Disease 1	-	-		-
066/x Alcoholism 2	-			
DISEASE OF NERVOUS SYSTEM & SENSE ORGANS.		*		
070/x Encephalitis 1 - 1	-		. 1	-
071/x Simple Meningitis 1 3 1	1	2	- 2	~
073/x Other Diseases Spinal Cord 2 - 1	-	1 .	- 1	L.
074/1 Cerebral Haemorrhage 11 2 2	2	1 .	- 2	-
074/2 Cerebral Thrombosis & Embolish 7	_		- 1	-
075/1 Hemiplegia 6	_	1	- 1	-
075/2 Paralysis	1			-
076/x General Paralysis of Insane	_	-	1 -	
078/x Epilepsy 1	1	1 .	- 3	-

				Cander & Other & Unspecified Organs
				- Predmatic Fever
				Other Anseniss & Chlorosis
				entiod oiming managed
				almisagel
				Lymphedenous, Bodgicina Dicease
				stillsageons
				Simple Meningities

200		BOROUGH IMPORTED.							
SEASE	S OF NERVOUS SYS. & SENSE ORGANS.	E.	C.	N.	<u>A</u> .	E.	C.	N.	<u>A</u> .
1 301	BROUGHT FORWARD:	209	29	133	56	74	26	358	25
80/x	Convulsions - under 5 years	1	-	1	1	-	-	-	-
81/x	Chorea	-	-	-	-	-	-	-	1
84/x	Other Diseases of Nervous Sys	1	-	-	1	2	-	-	-
ISEAS	ES OF CIRCULATORY SYSTEM :								
87/x	Pericarditis	-	-	-	-	1	-	-	-
88/1	Acute Endocarditis	6	-	1	2	4	-	2	-
88/2	Acute Myocarditis	22	2	3	1	5	-	10	3
89/x	Angina Pectoris	3	-	-	1	1	-	1	-
90/1	Valvular Disease of Heart	4	-	1	1	1	-	-	-
90/2	Fatty Degeneration of Heart	-	-	-	1	-	-	-	-
90/3	Other Diseases of the Heart	11	1	2	1	2	1	5	2
91/1	Aneurism	1	-	1	=	-	-	1	-
91/2	Arterial Sclerosis	30	1	1	2	6	-	-	-
91/3	Other Diseases of Arteries	5	-	-	-		-	-	-
91/4	Aortic Aneurism	1	-	-	-	-	-	-	-
92/x	Embolish & Thrombosis	_	-	1	-	1	-	-	-
094/x	Disease of Lymphatic System	-	1	-	-	-	-	-	-
)95/x	Haemorrhage	9 -	-	-	-	1	-	6-	-
096/x	Other Diseases Circulatory Sys	18	-	5	1	3		4	2
DISEAS	ES OF RESPIRATORY SYSTEM:								
098/x	Disease of Larymax	-	-	-	L -	1	-	2-	-
099/1	Bronchitis - Acute	4	ļ	2	3		-	1	-
099/2	Bronchitis - Chronic	3	2	-	1	1		-	1
099/3	Bronchitis - undefined (under 5)	3	-	1	2	1	-	3	-
099/4	Bronchitis - undefined (5 & over)			. 1	-	-	-	1	-
100/x	Broncho-Pneumonia	16	8	26	32	7	2	44	1
Antel a	CARRIED FORWARD:	335	45	179	106	111	29	430	35

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DISEASES OF RESPIRATORY SYS. CONTD.	E.	C.	N.	<u>A</u> .	E.	C.	N.	A:
BROUGHT FORWARD :	335	45 :	179	106	111	29 4	130	35
101/1 Pneumonia Lobar	2	3.1	9	3	2	-	3	2
101/2 Pneumonia - Undefined	7	1	16	6	2	-	16	1
102/x Pleurisy	(- N	1	-	-	1	-	3	-
103/x Pulm. Congestion	1	-	3		-1	-1	1	-1
105/x Asthma	2	-	-	3	-	-0	-	-
106/x Pulm. Emphysema	1	-8	-	-	-	-	1	
107/2 Diseases of Medeasturum	-	-	-	-		-	1	-
107/3 Other Dis. Respiratory System.	1	-	1	-	1		-	-
107/4 Miners Phthisis - without T.B.	1	-	-	2	1	-	3	-
107/5 Miners Phthisis - with T.B	2	.1	5	3	2	1	42	2
DISEASE OF DIGESTIVE SYSTEM :								
108/x Diseases of Mouth & Annexa	-	-	1	- ,,	-	-	-	
109/x Diseases of Pharynx & Tonsils.	1	-	-	-	-	-	1	-
111/1 Ulcer of Stomach	3	-	-	-1	-	-	1	-
111/2 Ulcer - Duodenum	-	-	-	-	2	-	-	-
112/x Other Diseases of Stomach	1	-	2	1	2	-	2	-
113/x Diarrhoea & Enteritis - under	1.7	3	11	13	3		13	-
114/x -dodo2 yrs &			- 4				6	
Over.	6	-	4	4	-	-	6	-
117/x Appendicitis & Typhlitis	6	-	4	-	1	-	1	
118/1 Hernia	2	-	-	1	3	-	2	
118/2 Intestinal Obstruction	5	-	-	1	-	-		-
119/ Other Diseases of Intestines.	4	-	-	-	-	-	3	-
122/2 Cirrhosis		1	1	1	3	-	-	-
123/x Bilary Calculi	3	-	-	-	2	-	- 0	-
124/x Other Diseases of Liver	3	-	-	-	4		3	
125/x Diseases of the Pancreas	1	-	-	-	1	-	-	-
126/x Petitonitis of unstated origin	2	.1	1	-	-	-	2	

CARRIED FORWARD: 396 54 237 144 141 30 535 40

10000000 1 1 1 27 70. 3.E 5 AND STATE OF THE PARTY OF THE P Other Ma. Respiratory Bystem.

	BOROUGH	IMPORTED.
DISEASES OF DIGESTIVE SYSTEM CONTD. E.	C. N. A.	E. C. N. A.
BROUGHT FORWARD: 396	54 237 144	141 30 535 40
127/x Other Diseases Digestive Sys	1	
NON V.D. DIS. OF GENITO-URINARY SYS & ANN	TEXA.	
128/x Nephritis - Acute 6	- 5 3	1 1 2 1
129/x Nephritis - Chronic 16	1 5 1	10 2 - 2
131/x Other Dis. of Kidneys & Annexa 3	2 2	2 -
133/2 Other Diseases of Bladder 1		1
134/1 Structure of Urethra 2		
134/2 Other Diseases of Urethra	- 1 1	
135/x Diseases of Prostate 6		2 - 2 -
137/x Cysts & Other Tumours of Ovary 1		
138/x Salpingitis & Pelvic Abscess. 1		
139/x Uterine Tumour 1	-1-4-5	
141/1 Diseases of Uterus	1	1 - 1 -
141/2 Other Dis. of Female Genital		
Organs		
THE PUERPERAL STATE :		
143/2 Ectopic Gestation	- 1 -	1 1
143/3 Other Accidents of Pregnancy. 1	1	1 -
144/x Puerperal Haemorrhage		1 -
145/x Other Accidents of Labour	- 1 1	- 1 3 1
146/x Puerperal Septicaemia		- 1 3 1
147/x Puerperal Plegmasia	1	
148/x Puerperal Albuminuria & Con. 1		
DISEASES OF SKIN & CELLULAR TISSUE.		1
151/1 Gangrene	1	1
152/x Furuncle 1	1	1 -
153/x Acute Abscess	- 1 1	

CARRIED FORWARD: 436 59 252 156 158 35 548 44

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3				
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-				
3				
				A Structure of Unethrav
-				(2 Other Diseases of Orathe
				A Cyate & Coner Tunours of Over
-				A Disease of Union
8				
				in Alergoral Engrands
246				

		1	BORO	UGH			IMF	ORTE	D.
DISEAS	ES OF BONES & ORGANS OF LOCOMOTION.	E.	C.	N.	<u>A</u> .	E.	C.	Ŋ.	<u>A</u> .
	BROUGHT FORWARD: 43	36	59	252	156	158	35	548	44
155/x	Diseases of the Bones	-	-	-	1	1	-	1	-
156/x	Diseases of Joints	-	-	-	10.7	1	37	575	-
158/x	Other diseases of Organs of Loco.	-	-	-	-	1	-	-	-
MALFOR	MATIONS :								
159/1	Congenital Heart	5	-	-	2	1	-	-	-
159/2	Hydrocephalus	2	-	-	-	-	-	-	-
159/3	Spina-Bifida	3	-	-	1	1	-	-	-
159/4	Other Forms	_	-	-	-	1	-	-	-
DISEAS	ES OF EARLY INFANCY :		2.2						
160/x	Congenital Deb. Icterus & Sclerema	1	2	2	10	6	-	2	_
161/1	Premature Birth	11	2	19	4	4	-	6	-
161/2	Injury of Birth	1	-	-	-	1	-	4	-
162/x	Other Dis. Peculiar to early infanc;	yl	1	4	3	1	-	5	-
OLD AG	<u>E</u> :								
164/x	Senility	11	-	_	5	-	-	4	3
EXTERN	AL CAUSES :								
165/x	Suicide by solid or liquid poisons	4	-	_	-	-	-	-	-
167/x	Suicide by Poisonous Gas	1	-	-	-	-	-	-	-
170/x	Suicide by Firearms	3	-	-	-	1	-	-	-
179/x	Burns	1	-	-	1	2	-	-	-
182/x	Accidental Drowning	1	-	-	-	-	-	-	-
183/x	Accidental injury by firearms	1	-	-	-	-	-	-	-
185/x	Accidental injury by fall	2	-	-	-	1	-	-	-
187/x	Accidental injury by machinery	-	-	-	-	1	-	-	
188/1	Accidental injury by railways	1	_	-	-	-	-	-	-
	CARRIED FORWARD: 4	85	64	277	183	181	35	570	47

					.0	ES OF BONES & ORGANS OF LOCONSTION. S.
						Diseases of the Bones
		5:-				Pissassa of Joints
						Other diseases of Organs of Loco
*						2 BHOLTAN
	23			2		Congenital Beart B
-			Ve			S Sydrocophalus 2
				-	E.	Bpdna-Bdflda 8
						Other Forms
-						ES OF EARLY INVANCY :
						Congenital Deb. Ictarus & Sileruma 1
						Premature Eirsh
43					-	Injury of Street, water
	- 90.	100			£	Other Dis. Feculiar on early intemoyl
	4					And the second
					-	it total total
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		nia:				
		8				
					1	

- 20 -		BOROUGE	<u>I</u>	-	IMPORTE	<u>D</u> .
EXTERNAL CAUSES :	. E.	C. 1	. A	. E.	C. N	<u>. А</u> .
BROUGHT FORWARD:	485	64 277	183	181	35 570	47
188/2 Accidental injury by motor vehicl	.е з	1 -	-	1		-
188/4 Accidental injury other vehicles.	. 1		-	1		-
188/6 Accidental injury by Motor cycles	. 3		-	2		-
202/1 Other external violence		1 -	-	0.1		-
203/x Violent Death - unknown causation	1. 1		-	-		-
<u>ILL-DEFINED DISEASES</u> :						
204/x Sudden Death			-	-		-
205/x Cause of Death unstated or ill- defined	9	1 41	97	4	- 55	
delined	. 9	1 -21	- 61		- 00	
whiteles Rechardrup	502	67 318	211	188	35 625	58

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With the exception of Malaria, the incidence of the common infectious diseases was extremely low throughout the year.

2(iv) INFECTIOUS DISEASES.

TABLE SHOWING NOTIFIED INFECTIOUS DISEASES, ALL RACES.

DISEASE.	Eu B.	ro.			.Nat			iatic. I.	The same of the sa	tal. I.
Diphtheria Enteric Fever Scarlet Fever Tuberculosis Pulm do Non.Pulm Typhus Fever Erysipelas Puerperal Fever Anthrax phthalmia Neonatoru Trachoma Leprosy Cerebro-spinal Meningitis Ophthalmia - Gon Encephalitis -Inf Malaria	32 22 43 3 4 16 3 3	27 19 4 -14 3 1 2 -1 -1 4 5	3 4 - 12 2 1 13	532	1 15 51 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 17 152 30 -1 1 -1 -5 2	3 23 12 - 1 23	1 5 15 11 -	77 54 22 129 26 4 19 5 - 1 4 21 367	33 41 4 234 46 1 3 1 - 1 2 5
TOTALS:	388	116	37	59	225	221	62	41	712	437

. (v) SCARLET FEVER :

	1926/27	1927/28	1928/29	1929/30	1930/31	1931, Boro.	/32. Imp.
Cases Deaths	26	43	59	47 1	27 -	22	4

Borough Europeans only :

Case incidence for 1,000 of population = 0.37.

- HE 198 end in commence the second to
Ber ough Engopeans unity

Case incidence wolver, 000 or population - 0.37

2(vi) ENTERIC FEVER.

Pever.	1926/27	1927/28	1928/29	1929/30	1930/31	1931/3 Boro.	
Cases	111 23	143	142	107	94	54	41
Deaths		35	26	24	19	14	21

Borough Europeans only :

Case Mortality per cent.	12.5
Case incidence per 1,000 of	
population	0.5
Death Rate per 1,000 of population	0.7

(vii) DIPHTHERIA:

has	1926/27 1927/2		1928/29	1929/30	1930/31	1931/32. Boro. Imp.	
Cases	119	153	117	120	163	77	33
Deaths		6	6	8	7	1	3

Borough Europeans only :

Case Mortality
Case incidents per 1,000 of population 1.2
Death Rate

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Death Rete pod I too of page dation

Borough Warepan a only :

Case Mortality
Case Incidents per 1,000 of population - 1.2
Death Reve

e. (viii)

INFECTIOUS DISEASES HOSPITAL.

DISEASES.	European.	Coloured.	Native.	Asiatic.	Total.
Diphtheria. Scarlet Fever. Measles. Chicken Pox. Mumps. Typhus Fever. Whooping Cough Malaria. Trachoma. Vaginitis. Cerebro-spinal Meningitis. Sandworm. Observation Influenza. do Typhoid.	94 20 25 20 1 3 61 - 1 2 2 4 19	5 - 1 - 2 - 1	9 1 18 73 2 - 5 137 - 2	1 - 1 - 7 - 7 -	109 21 47 95 3 4 68 137 2 6 4 26 1
TOTALS:	252	10	248	15	525

Before the end of the year, a start was made with the erection of the Two New Ward Blocks and the Disinfecting & Laundry Station at Congella Hospital. No progress, has, however, been made with Provincial Non-European General Hospital on the same site. The delay was occasioned by the inability of the Government to provide the Province with the necessary capital. It is hoped that the condition of the Exchequer will, in the near future, permit of this important scheme being proceeded with.

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15 69	.orbitabal	ovidan.	Leeseco.	.nespoore.	DISEASES
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88				81	Typhotes
888	1 30	248	1. 9.5	888	LS:

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(ix) DISINFECTING STATION:

During the year the following work was carried out:

	Rooms disinfected.	Articles wash- ed & Disinfected.
Private Premises	326	7,755
Congella Hospital	And The second	65,160
Typhus Fever Precautions	-	28,846

AMBULANCE REMOVALS:

The following table shows that a total of 595 cases were conveyed in the Infectious Diseases Ambulance:

Hospitals.	European	coloured.	Native.	Asiatic.	Total.
Municipal Isolation Government Hospital Other Hospitals	214 34 70	90 20 4	133 19 3	5 3 -	442 76 77
TOTALS:	318	114	155	8	595

CLEANSING STATION :

Verminous Europeans : baths provided 6,959

Verminous Natives : baths provided 1,492.

ISINFECTING STATION

During the year the following work was carried out

Rooms - Articles we

7,755 68,160 28,846 Private Premises Congella Hospital ...

Typhus Fever Precautions

ABULANCE BEMOVALE:

The following table shows that a total of 598 case

sometreden seasoute suid serial and at beyevere ere

Lator	Angelet		- sintigand
448 76 77		08 08	moitsloal Lagloin Nermant Hospital her Hospitals
 595		114	TOTALS:

BANSING STATION

. Verminous Europeans : baths provided 6,959

Verminous Hattves : heaths provided 1 : asylvan

2(x) LAUNDRY:

A total of 21,826 articles, including towels, coats, etc. were washed for the various Corporation Departments.

39,491 Costumes, slips and towels were washed for the Ocean Beach Baths & Bathing Enclosure.

56,082 Costumes, towels, etc. were washed for the Public Baths, West Street.

The new Disinfecting Station and Laundry at Congella Hospital is estimated to cost £6,000, and the station will replace the existing inadequate and unsatisfactory premises at Alice Street. At the new station, it is intended to handle the laundry from the Addington Hospital and the proposed Non-European General Hospital as well as the routine work for Municipal Departments and Congella Hospital. The largely increased turnover, together with the use of modern laundry appliances, should effect a reduction in the costs of laundry work and disinfection.

Incidentally, the cost of supplying hot water to the Isolation Hospital will be greatly reduced by substituting steam heating direct from the Laurdry Boiler for the existing expensive automatic thermo-electric heating system.

(x) LAURINEY:

notient to the the season of the continue of t

a barden even afterno has agile , semiraco 160,000

Public Dates, West Street.

The new little as a cost, and cost and the station were the station of th

the Islation Hospital will be greatly reduced by substiing steam negating wirest from the Lauring Botler for the extering expensive automatic theres -electric heating my

2. (X).

RE VACCINATION OF 12 YEAR OLD CHILDREN & OTHERS.

Registration of 12 year old children:	1,316
Successfully Vaccinated:	579
Insusceptible to Vaccination:	45
Vaccination postponed owing to illness:	24
Previously had smallpox:	-
Ratio of Vaccinations & postponements registered to 12 year old registrations during the year.	49.24
Contraction of the contraction o	
CHILDREN.	
Exemption Certificates granted. Applications refused.	162 3
1926/27 1927/28 1923/29 2923/30 1530/31 1931	
VACCINATION OF INFANTS & CHILDREN:	1 22
Births entered in Vaccination Register.	2,038
Successfully Vaccinated.	957
Insusceptible to Vaccination.	32
Vaccination postponed owing to Illness.	302
Previously had Smallpox.	-
Death of Infants under two years registered.	166
Ratio of Vaccinations and postponements registered to Births registered during the year after allowing for Deaths of Infants under two years.	68.96

. 91. 4.4

3 (i) TUBERCULOSIS :

Pulmonary Tuberculosis (including Pulm. Phthisis).

	1926/27	1927/28	1928/29	1929/30	1930/31	1931/ Boro.	Control of the Contro
Cases	280	324	338	342	408	129	234
Deaths	161	163	188	167	207	89	155

Borough Europeans only:

Case incidence per 1,000 of population: 0.72 Case mortality per cent. 46.5 Death Rate per 1,000 of population: .30

3 (ii) NON-PULMONARY TUBERCULOSIS.

	1926/27	1927/28	1928/29	1929/30	1930/31	1931/ Boro.	32. Imp.
Cases	85	61	70	76	42	26	46
Deaths	48	41	58	36	28	16	30

Borough Europeans only :

Case incidence per 1,000 of population 0.05 Death Rate per 1,000 of population. 0.03

No further addition has been made to the accommodation for cases of Tuberculosis. In this connection, the delay in proeding with the Non-European General Hospital at Congella, is regretted. The completion of this scheme should considerably relieve the position as regards the isolation of Native and Indian cases in particular. The proposed New Non-European General Hospital must, indeed, form the basis for any comprehensive scheme for dealing with Tuberculosis in this area, as regards discovery, treatment and isolation of cases.

The suggested scheme for a Sanatorium Colony on the Town Council's Camperdown Estate, has been referred to the various Natal Municipalities and the Natal Municipal Association. The replies received so far indicate that, as soon as the economic situation improves, the suggested scheme will be given practical consideration.

		ordor Tober	

1830/31 1831/32. Roro, Lap		
88 708		

Case mortalegy to 000,1 red sension: 0.72 Case mortalety per cent. 66.5 Death Rate per 1,000 of population: 30

. STROUGHERUT YEAROMING TON (1)

			AF.	nor .
	1930/91	68/886I	126T 137c	
		- Fire	100 4000	
· Janetta			81	ns
35 35				

Sorough Europeans only

Case incidence per 1,000 of population 0.05 Death Rate per 1,000 of population. 0.03

No further addition has been made to any accompation of Tuberculosis. In this connection, the delay in protection, the delay in protection of the scheme should at Congalia, is the first postation of this scheme should considerably to perticular. The proposed New Non-European General Hospit in the proposed New Non-European General Hospit in Tuberculosis in this area, as regards discovery, treatment solerion of onese.

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4. VENEREAL DISEASES.

OUT-PATIENTS:

N	ew	Ca	S	e.	s.

European	_	Male	271	
- COLUMN TO STATE OF THE PARTY		Female	33	
Indian	-	M. &. F.	50	
Native	-	M.&.F.	506	
Coloured	-	M.&.F.	40	900.
Non-Vener	rea	al		40.

INJECTION OF N.A.B.

European	-	M.	8.	F.	322	
Indian	-	M.	&.	F.	135	o a mission
Coloured	-	M.	&.	F.	60	,
Native	-	M.	&.	F.	803	1,320.

IMMIGRATION.

European - M. &.	F.	4,099	
Native - M. &.	F.	4,099 1,056	
Col.&IndianM.&.	F.	821	5,976

DILATIONS:

Europeans - Col. & Indian	13	13
Wasserman Tests Slides & Smears Vaccine Injections Intramine Medicine & advice only Prostate Massage	103 257 141 - 1305 36	1,842

Total Attendances at Clinic: 9,213

IN-PATIENTS:

European	- Male	74	
-	- Female	18	
Native	- Male	515	
Indian	- Male	35	
Coloured	- Male	27	
	Co. Female.	207	876

Babies born in Ward.

INJECTION OF N.A.B.

European				
Nat. Ind. &	Co. M.&	k.F.	1, 491	1, 525.

IRRIGATION. European - M. &. F. 2,753 Native, Ind. &Col. 6,418 9,171

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- 5 23.5

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4(1)

An important matter in connection with the control of Venereal disease came to light during the year. It became known that the medical examination of Natives applying for registration with the Borough, was not sufficiently complete to ensure the discovery of all manifestations of Venereal Disease among the applicants. It appears that this was due to a misconception on the part of the Medical Officer employed by the Native Administration Department, as to the scope of his duties under the appropriate Regulations deriving authority from the Urban Areas' Act. The misconception has, however, now been cleared up and examination of Native males applying for registration is now conducted "in the nude". A considerably larger number of cases of acute and chronic gonorrhoea are now coming to light.

When the Borough boundaries are extended, it will become necessary to consider re-organizing and amplifying the existing system of venereal disease control. District Venereal Clinics will require to be established in the Mayville and South Coast Junction areas. These will serve as local out-patient depots and will serve to attract early cases, particularly Non-Europeans, who would not otherwise receive proper attention.

Matives applying for registration with the Borough, w part of the Medical Correct employed by the Patrye Ad on revewed , and moligeonospin and . Jok 'aseah nedall considerably larger number of cases of sputs and chry generatives are now coning to light. on bus anisimeyro-er roblemes of vissepsen emped fliw suplifying the existing tystem of yourself disease con

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5. PLAGUE.

RAT DESTRUCTION.

The following figures show the work carried out by the Rodent Prevention Staff :-

Total Visits32,507
Rats destroyed - private 8,792 " - Corpn.Barracks 833
Baits Laid135,818
Traps set 3,913
Rat poison prepared by Department (in lbs) 263

Although the Department carries out a routine programme of rat extermination in Corporation-owned properties, chief stress is laid upon the preventive side of rodent control. Expert advice and assistance is given free to private propertyowners whenever sought.

The operation of the new by-laws controlling poultry-keeping has greatly improved the position in residential areas. The wealth of sub-tropical vegetation in gardens and bush-lands however, will always provide attraction and harbourage for rats. Such conditions are difficult to control.

The greatest stress is laid on the (1) rodent-proofing of food and fodder stores (2) anti-rodent requirements as regards design and structure of new buildings and the conversion or alteration of existing buildings and (3) proper storage and regular removal and disposal of organic domestic and trade refuse.

Advantage is taken of modern methods of extermination by Cyanide Gas and gas-impregnated dust wherever applicable.

6. PLAGUE

RAT DESTRUCTION.

Delruse wine and work saturated the work carried ut by the Rodent Prevention State

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688		poison prepar	

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relucy mailforthes swal-yd wan ent le nottarego ent desping has groatly ingroved the position in residential areas the wester, will always provide aburection and herboarege for rat tuch conditions are difficult to control.

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Advantage is taken of modern methods of extermination

6. OTHER COMMUNICABLE OR PREVENTABLE DISEASES :

For the fifth summer in succession, Malaria has been prevalent in the Borough. Although at no time excessive, the outbreak was rather more serious than that of the preceding year. The following figures represent the mortality from Malaria during February, March, April and May in each of the last five years:

1927/28 - 2, 1928/29 - 1, 1929/30 - 16, 1930/31 - 7, 1931/32 - 21

Twenty-five years ago, a Malarja epidemic of low virulence was experienced in Durban. The disease appeared in summer of 1904/1905, reached its maximum in the following year, subsided over the next two years and disappeared in 1909.

European deaths from Malaria during that period were as follow: 1904/05 - 16, 1905/06 - 56, 1906/07 - 18, 1907/08 - 9. Subsequent to 1909, Durban was free from Malaria until the summer of 1927/28, when the present epidemic phase began.

The earlier epidemic began in the north of Zululand, spread southward along the coast as far as Port Shepstone and then subsided, leaving a few endemic centres of infection in the large river valleys near the coast, particularly in the northern section.

It appears that the subsidence of the earlier epidemic was due to the operation of some general epidemiclogical factor or factors, the nature of which has not been determined. At the present juncture, after five years of renewed Malaria activity, the question naturally

OTHER COMMUNICABLE OR PREVENTABLE DISEASES :

For the fifth summer in succession, Malaria has been prevalent in the Borough. Although at no time excession the outbreak was rather more serious than that of the preceding year. The following figures represent the mortality from Malaria during February, March, April and May in each of the last five years :

1927/28 - 2, 1928/29 - 1, 1929/30 - 16, 1930/31 - 7, 1931/3

low virulence was experienced in Dirbin. The disease appeared in summer of 1904/1905, reached its maximum in the following year, subsided over the next two years and disappeared in 1909.

European deaths from Malaria during that period were as follow: 1904/05 - 16, 1905/06 - 55, 1905/07 - 18, 1907/05 - 9. Subsequent to 1909, Durban was free from Malaria until the sunser of 1927/25, when the present epidemic phase began.

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It apposes the subsidered of the entitier of the earlier opidemic was due to the operation of some general epidemiclogical factor or factors, the nature of which has not been determined. At the present juncture, after five years of renewed Malaria activity, the destion naturally

arises: will the present Malaria epidemic subside mysteriously in the manner of its predecessor?

If it does so subside, then a very great menace will have been escaped and valuable time gained for the prosecution of necessary preventive measures throughout the threatened areas.

On the other hand, if the disease reappears next season, on anything like the scale of the preceding year, the fact will have to be recognised that Malaria has definitely become an endemic disease in Natal.

As so much is unknown or uncertainly known, about the epidemiology of Malaria in Natal, it is impossible to predict the nature or extant of next summer's manifestation of malaria.

The outstanding factor in the Malaria problem in Durban is that its occurrence is essentially the local manifestation of an epidemic which has spread throughout the Province of Natal. In this latter respect, the present wave of Malaria resembles that of a quarter of a century ago, but there is the further disquieting phenomenon that, this year, the disease has appeared in many hitherto unaffected districts in the Province. The manner of the spread of Malaria throughout Natal this year leaves but little doubt that/...

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The outstanding factor in the Maleria proble in Durbon is that its occurrence is essentially the local manifestation of an epidemic which has apread throughout the Province of Matal. In this latter respect, the present wave of Maleria recembles that of a quarter of a featury ago, but there is the further disquisting phenoment that, this year, the disease has appeared in many hitherto unaffected districts in the Province. The manner of the spread of Maleria throughout Matal this year leaves but little doubt that...

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that modern methods of transport - both by road and rail play an important part in the transmission of the disease. It has been proved repeatedly that Anopheles Costalis can be conveyed from one point to another in road and railway vehicles. As the receiving and distributing centre for Natal, Durban, during each Malaria season, is open to the introduction of Malaria-carrying mosquitoes from districts infected with Malaria. Moreover, hundreds of malaria patients are brought into the Borough for treatment at the various hospitals and nursing homes. Thus it follows that Malaria in Durban may be either indigenous or imported. From the evidence accumulated over the last five years, one would probably be justified in assuming that as much as 50% of malaria prevalence in Durban is properly classifiable as imported in the sense that neither the primary source of infection nor the mosquito vector originated within the Borough boundaries. Thus it follows that as long as Malaria is epidemic or endemic in Natal, the disease will occur in Durban in despite of effective Anti-larval measures.

Nevertheless, the experience of 1932 strengthens the opinion that malaria is readily controllable in Durban itself. Had it been otherwise, the summer of 1932 must have witnessed a flaring epidemic, instead of which the Durban community escaped more lightly, comparatively speaking, than any other community throughout the affected areas. Pietermaritzburg, although situated 56 miles inland and at an elevation of 2,000 feet above sea-level, showed a greater Malaria Mortality rate than did Durban.

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For the past 27 years, a special unit of the Borough Health Department has been emgaged in carrying out routine Anti-Malaria measures. In 1928 this unit consisted of one European and fourteen Indians. Since then it has been augmented, until now this staff consists of six Europeans and twenty-eight Indians. One European is engaged in the work of supervising the oil-spraying and draining gangs, whilst five Europeans and two Indians devote their whole time to surveying work. Since January 1st 1932, 25 nurseries of Anopheles Costalis have been located in the Borough at the following points:-

Valleys of the Umgeni & Umbilo Rivers. Eastern Vlei. Race Course. Western Vlei and Congella Flats.

Oil-spraying is carried on throughout the year. During
the Malaria season, every likely place is sprayed with
oil at weekly intervals. The work of spraying gangs is
double-checked by European surveyors, who have to ensure
that it is efficiently done. The information accruing
from notification and the examination of blood slides
at the Government Laboratory, led to the discovery of
only one breeding place which was not under control. This
breeding-place consisted of a small puddle on an unfrequented side-road between the southern boundary of Albert Park
and the foreshore. Attention was directed towards this
particular locality following the occurrence of a few
cases of malaria in the southern end of the Esplanade.

Although the swampy and low-lying areas of Durban have been known for years to attract the Anopheles Costalis, on no occasion has this species been found

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breeding in the residential areas of the town. Therefore, it would appear that so far as the Borough proper is concerned, Anti-larval measures, directed against the Anopheles Costalis, is a problem restricted to the swampy and low-lying areas. All the evidence goes to show that Anopheles breeding has been kept down to the absolute minimum on those low-lying areas for which the Borough is responsible - the absolute minimum, that is to say, having regard to existing conditions. It goes without saying that the conditions in many of the swampy and low-lying areas are not at all satisfactory from the point of view of Malaria prevention. In several instances, swamp drainage and reclamation schemes of a minor engineering nature would effect a permanent eradication of the trouble. The long period of immunity prior to the commencement of the present epidemic phase has, no doubt, been responsible for the development of a somewhat too complacent outlook on the question of swamp drainage and reclamation.

In the ordinary course of events such works would naturally take their place in the settled programme of town planning and development, but the position of Malaria to-day can only be described as extraordinary. It would be unwise in any event to reckon upon the possibility that history will repeat itself to the extent that the present epidemic wave-like the 1905-1908 outbreak - will peter out soon after reaching its peak. Experience in other parts of the world goes to show that once Malaria has taken root in a large expanse of territory it tends to maintain itself in endemic form, punctuated at recurrent intervals with outbreaks of epidemic activity. Such may well be the future history of Malaria in Natal. In any case, so far as Durban is concerned,

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the time has undoubtedly come when every possible and practicable measure must be taken against the spread of the disease.

Among the measures which I beg to RECOMMEND should immediately be taken in hand, are the following :-

- 1. A progressive programme of Swamp Drainage and Reclamation.
- 2. Consolidation of Anti-Mosquito Sanitation throughout the Borough Area, including lands and premises appertaining to Union and Provincial Government Departments; the control of such sanitation throughout the geographical area of the Borough to be vested in the Town Council as Local Authority for the Borough.
- 3. Strengthening of the Anti-Mosquito Sanitation
 Staff by the addition to the establishment of the following :
 - (1) One fully qualified Health Inspector, with special experience in Anti-Mosquito Sanitation.
 - (2) Five unqualified European surveyors.
 - (3) Thirty Indian sprayers.

These additions to the staff become necessary in connection with the increase of area to be controlled after extension of the Borough Boundaries.

4. Provision of facilities for the systematic instruction of Durban school children in Anti-Mosquito Sanitation, such facilities to include the equipment of a special health section in the Durban Museum, and the appointment of a Health Lecturer to be employed wholetime in the giving of such instruction.

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WATER SUPPLY.

(By Courtesy of the Borough Water Engineer).

(i) SOURCE : UMLAAS RIVER.

The catchment area draining to the storage reservoir at Camperdown is 172 square miles in extent. An additional catchment of 138 square miles drains to the new storage reservoir at Shongweni. A further area of 33 square miles drains to the Intake, making an aggregate of 345 square miles. The total acreage within the catchment area owned by the Corporation is 10,527.

(ii) POSSIBILITIES OF POLLUTION IN CATCHMENT AREA:

The supply in the river and tributaries from such an extensive catchment area is of course subject to pollution, but almost all the human habitations are situated at such distances from streams as renders them innocuous. The Corporation is empowered by the Durban Waterworks Consolidation Act No. 24 of 1921 to take drastic measures if necessary to prevent serious contamination.

(iii) STORAGE:

The total reservoir capacity is made up as follows:

Storage Reservoirs.

	Original Capacity. Million Gallons.	Present Cap- acity Million. Gallons.
Shongweni Camperdown Clear Water, Umlaas	2,600 604 100	2,600 177 100
	3,304	2,877
	STAMPORTAGE	WARRING TO SERVICE A SERVI

Service Reservoirs/.....

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(By Courtesy of the Sorough Water Engineer) .

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2,600		nperdown inswgno

Service Reservoirs/ ...

SERV.ICE RESERVOIRS.

Congella		3,000,000 3,000,000 650,000 650,000) In rese	rve.	
2		The Boundary		7,300,000	
Botanic Gard	ens			3,000,000	
South Ridge				3,000,000	
Stella				2,000,000	
North Ridge				2,000,000	
Ridge End				2,000,000	
Northdene	1.	500,000	··· ···	2,000,000	
1101 Olidelle	2.	750,000	gals.	3 050 000	ii ii
Panda- P		700,000		1,250,000	
Florida Road				650,000	11
St. Thomas Ta				300,000	ti.
Campbell's T	ank			110,000	11
Botanic Gard	ens Tank			100,000	11
Murchie's Ta				20,000	11
				30,000	-
				-	

21,740,000 Gallons.

(iv) PURIFICATION :

When necessary the raw water is treated with alumina Sulphate for the purpose of sedimentation before Filtration.

Slow sand filters are in operation at both the Umlaas and Coedmore Works, and the Shongweni Works include the rapid gravity type.

In all cases the effluent from the Filters is sterilised by treatment with liquid clorine on the most modern principles and with completely effective results.

(v) The average daily consumption is in the vicinity of 10,000,000 gallons and the actual capacity of the existing works is approximately 15,000,000 gallons per day.

(vi) BACTERIOLOGICAL EXAMINATIONS:

Regular bacteriological and chemical examinations were made in the laboratory situated at Northdene Filters, and weekly tests are made at the Government Laboratory in Durban, yielding results comparable with those of any other water supply in the world. The Durban standard of negative Bacillus Coli in 100 c.c. is the highest standard sought anywhere.

SERVICE REERROLISS.

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7. WATER SUPPLY:

Throughout the year, the quality of the water system, as ascertained by weekly chemical and bacteriological analysis, has been consistently good. In quantity the supply has been ample for the requirements of lesser Durban, but it now becomes obvious that early provision should soon be made for an augmented supply in order to anticipate the rapidly expanding needs of the community. The Borough Water Engineer has already submitted a comprehensive report on his investigations for a new source of supply.

The high standards of purity are indicated by the subjoined analyses, taken at random :-

(a) Chemical:

Colour. Good Turbidity. Nil. Sediment. Nil. Re-action. 0.92 Alk.

ANALYSIS.

(Result expressed in parts per 100,000)

Total Solids	12.14
Loss on Ignition	2.99
Chlorine	2.84
Nitrates & Nitrites	Nil.
Saline Ammonia	0.002
Albumoid Ammonia	0.009
Total Hardness	5.29
Permanent Hardness	3.38
Iron	Trace.
Poisonous Metals	Nil.

(b) Bacteriological:

ning Sites. Louds of 1	B.Coli Present in.	B.Coli Absent in.
Bulwer Park	100 c.c.	100 c.c. 80 c.c. 100 c.c. 100 c.c.

Bacteriological :

8. NIGHTSOIL - Refuse :

The number of pails in use at the end of the year was as follows :-

TOTAL DE LA COLONIA DE LA COLO	Pails.	Dwellings.
Private Dwellings	88	80
Business premises	17	2
Govt. Institutions	85	1
Municipal Institutions	19	3

REFUSE - NIGHT SOIL, ETC. - CARTS ETC :

Rubbish Carts.	55		4000
Motor Freighters	6	(1	Spare)
Street Cleaning Carts.	16		
Carts for depositing sand on tips.	3		
Tank carts for the removal of night	ï		
Station and soil.			
Stationary carts and vans.	2		

MATERIALS REMOVED :

Rubbish	73,676	Loads.
Street sweepings	21,778	11
Manure	482	11
Sand for covering tips	32,852	11

DISPOSAL OF REFUSE ETC :

Tipping Sites.	Loads of Refuse	Loads of Street Sweepings.
Destructor Ocean Beach Botanic Gardens Gale Street Willowvale Near Shires Barracks Aviation Grounds Brickhill Road. Stella Harvey Road.	7,437 3 18,447 256 2,890 1,085 4,770 34,519 1,253 3,016	36 11,600 2,963 209 885 3,841 672 1,572
TOTALS:	63,676	21,778

			1 <u>110000</u>	IICHTHDIN	.8
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				Private Duel Business pres Govt. Institu	
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Seeaphore		180		10072	
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Loads of Street	esinas to stant	Mpping Sites.
21, 600 2,963 2,963 885 885 886 886 886 887 2,841	7, 437 28, 447 28, 447 24, 477 24, 419 24,	Destro ter Destro ter Botanic Girdens Galo Street Willowskie Willowskie Willowskie Willowskie Wilstien Grounds Frickhild Rose. Stells
21,778	68,676	TOTALE

FLY PREVENTION :

24,606 gallons of poison mixture and 1,993 lbs of fly gum were made departmentally and used or laid down as poison bait on the various tips.

DISPOSAL OF MANURE :

482 cart loads of manure were collected by the department, and stored in "Baber" platforms belonging to the Parks and Gardens and Works Department.

In the course of next year, the Botanic Gardens
Tipping site will become exhausted, leaving only the Eastern
Vlei available for the disposal of town refuse.

By the beginning of 1933, it will be necessary to double the number of motor freighters in commission (6) in replacement of horse-drawn vehicles. Provision has been made for this item on the coming years estimates.

The Eastern Vlei will serve for many years as a refuse disposal site, containing as it does, large expenses of low-lying vacant land designated largely for recreational purposes. A double purpose is served by utilizing the Eastern Vlei as a tipping site; (1) the elimination of mosquit breeding swamps and (2) the reclamation of waste land.

The type of mechanical transport hitherto in use by the Cleansing Section has proved eminently satisfactory, i.e. independent units of 7 and 8 cubic yards capacity. Ten-yard-capacity vehicles could with advantage, be specified in connection with the proposed addition to the fleet next year.

ANALYSIS OF WORK DONE BY MOTOR REFUSE REMOVAL FREIGHTERS.

THE STATE OF THE S	Vehicle No. 1. Code No.84.	Vehicle No.2 Code No. 865.	Vehicle No.3 Code No. 858	Vehicle No.4 Code No. 859	Vehicle No.5 Code No. 868	Vehicle No.6 Code No.869
Loads removed.	1521	804 6136	692 5559 8 months Nov.	576 4539 8 Mos. Nov. to June.	531 4239 7 Months Dec. to June.	570 4577 7 months Dec. to June.
Cost per cub. yard.	1/94.	1/9.344.	1/10.14d. 5 months Feb. to June.	2/1.423d. 5 months Feb. to June.	2/2.614d. 5 months Feb. to June,	1/10.606d. 5 months Feb. to June.
Miles covered.	7440	5076	49384 8 menths, Nov.	4854 8 months Nov.	37835 7 months Dec. to June.	43061 7 months Dec. to June.
Miles per gallon	13,143	10,183 8 months July to Feb.	July.8 months.Nov	9.49 8 months Nov. to June.	7.137 7 months Dec. to June.	6.962 7 months Dec. to June.
					0,000	

WHATTER OF MOUR DONE BY MON

Ton per cellon					
Tes covered.					
st per cab, jud.		Now author 8			AREA OUDS.
oads in Cubic yards.					
	S. of elotiev	Code No. 858 Code No. 650	Vehicle No. 459	Vehicle No. 808	

DISEASED CARCASSES TOTALLY CONDEMNED AS UNFIT FOR HUMAN CONSUMPTION.

and the same		
PORK.	1,101 25 25 12 15 15 	1,240
MUTTON.	1,626 105 10 34 -10 130 -2	1,919
VEAL.	155 10 10 10 199 199	462
BEEF.	897 471 264 14 40 23 33 1	1,701
DISEASES.	Cycticercus Bovis Cyctecercus Cellulosae Dropsy & Emaciation Tuberculosis Jaundice Injuries Moribund Immature Dead in Pen Decomposition Uraemia Pigmentation Prigmentation	in the state of th

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militar & maggara	
HOTHOTHIONINGERS 3	BEER.
Cycticerous Bovis Cycticerous Bovis Cycticerous Bovis Cycticerous	

10. MILK SUPPLIES:

Applications for registration in respect of fifty-three dairy premises were received during the year, as compared with sixty-seven last year, viz:

Dairies (Fresh Milk) Ex Borough	43
Milk Depots (Pasteurised Milk)	4
	-
TO TAL:	53

The decrease in applications is due to the closing down of a number of dairies formerly registered, owing to the inability of the owners to comply with the requirements of the New Milk Bye-laws.

Three applications were made in respect of dairy premises for which license had previously been refused owing to non-compliance with the Bye-laws.

In one, case, the trade was forthwith discontinued. In the other two, proceedings were instituted and convictions obtained, resulting in the closing down of both dairies.

Two new applications for registration for the sale of fresh milk were received during the year, both of which have been held over until the requirements of the department with regard to structural improvement and equipment have been met.

Many of the dairies have now been brought into line with requirements of the new bye-laws with the exception of a few in which minor structural improvements and additions to plant and equipment are necessary.

Fourteen/.....

10. MILK SUPPLIES

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		PaleC
	Depots (Fa	MILL

TOTAL: 5:

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Courteen

Fourteen dairies discontinued the sale of milk within the Borough during the year, having failed to meet the requirements antecedent to the granting of a licence.

During the year, one milk-depot closed down and another opened, leaving the number of milk-depots in the Borough (6) unchanged from last year.

The new milk-depot is excellently planned, constructed and equipped for the handling of pasteurised milk and dairy products.

Several local dairymen were unable to recover from
the heavy financial loss involved by the Tuberculosis Eradication Campaign before the effect of the present economic depression made itself felt. The depressed state of the industry has,
to some extent, hindered progress towards a higher plane of
dairy hygiene and sanitation. Nevertheless, very definite
progress has been made, as will appear from the following:

In the case of one dairy situated within the Borough, license was definitely refused on the grounds of unsuitable premises. The dairyman in question has been permitted to carry on business for a limited period to permit of the disposal of his cows, after which the business will be closed down.

The closing of this dairy will reduce the number of dairies situated with the Borough boundaries to three, as compared with eleven some three years ago.

Another local dairyman with a good 'milk record', has had plans approved for new premises.

In view of this dairyman's record, a further extension of/......

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In view of this delryman'd record, a further extension

of the period within which building should commence, has been granted.

Cowsheds:

Two new cowsheds, in connection with hither to unregistered dairies, have been erected in the per--Durban areas.

Major improvement schemes have, in addition, been undertaken at thirteen registered dairies, involving the erection of five new cowsheds and the reconstruction of eight others.

In the reconstruction of cowsheds of limited width, it has not always been possible strictly to adhere to the dimensions laid down in the bye-laws particularly in respect of milking passages. In such cases, slight concessions have been made as an alternative to interference with the main walls, provided the buildings were otherwise suitable.

Water Supply:

The majority of the dairies obtain their water supply from the Durban Corporation. During the year, the Corporation water supply was laid on to four more dairies.

Where Corporation water is not available, a good supply is obtained from bore holes or alternatively rain-water storage tanks of adaquate capacity.

Inclusive of those dairies where such buildings formed a part of a general reconstruction scheme, eleven new milkrooms have been erected.

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buildings formed a part of a general reconstruction

Washrooms:

Fifteen dairies have been provided with approved washrooms for the cleansing of dairy utensils.

Steam Sterilizing Equipment.

During the year, twenty-one dairies have been equipped with steam sterilizing equipment. Two were new installations. The remainder were in substitution of the old type of built-in boiler.

The provision of efficient sterilizers is of primary importance now that all milk is retailed in bottles. Dairymen are beginning to regard sterilizing apparatus as a most essential part of their equipment.

Milk Coolers:

Ordinary water-coclers have been installed at three dairies where formerly no cooling facilities existed.

Two dairies have introduced intensivé cooling plants with brine as the cooling medium, while another has supplemented water-cooling by the installation of a refrigerator.

The necessity for effective cooling facilities is gradually being brought home to dairymen and no doubt a return to normal times will see the more general adoption of milk cooling plants.

Servants Houses:

A further ten dairies have been provided with suitable accommodation for the housing of dairy employees, the majority of which are well-constructed of brick, satisfactorily lighted and ventilated.

It is somewhat difficult to overcome the common fallacy that any old hovel is good enough for Native servants. Firm pressure has been necessary to achieve improvements in this direction.

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Bathing & Sanitary Accommodation:

New bathing facilities have been installed at ten and new sanitary conveniences at seven dairies during the year.

Milk Competition:

For the fifth successive year a Clean Milk Competition was held by the Public Health Department in conjunction with the Durban & Coast Society of Agriculture & Industries.

Entries showed a slight falling off. Fourteen as compared with eighteen in the previous year.

This decrease is attributable less to lack of enthusiasm than to lack of means on the part of the dairymen. A number of former competitors, realizing that their dairy premises or equipment were not up to competitive standards decided to withdraw from the competition until such time as these defects or deficiencies are made good.

The silver cup presented by the Durban Town Council, the Diploma of the Agricultural Society and the Special Prize for the best dairy premises, awarded by Tomango Ltd., fell to Mrs. J. England, 'Norfolk Dairy'.

The silver medal, awarded by the Agricultural Society as Second Prize, was won by Mr. Meyerowitz, Crown Dairy, Durban North.

Dairies, Cowsheds, etc.

33 inspections of dairies and milk depots within the Borough and 293 of dairies outwith the Borough boundaries but selling milk within the Borough were made.

No. of Milk Depots in the Borough
No. of Dairies within the Borough
No. of dairies without the Borough
but selling milk within the Borough
43

TOTAL: 53

Bathing & Sanitary Accommodation:

New bathing faulitation have been installed at ten and new namitary conveniences no seven dairies during the Milk Competitions

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Dairies, Cowsheds, etc.

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No. of Milk Dopots in the Borough in No. of Dairies within the Borough in Do. of dairies within the Borough but selling milk within the Borough 43

OTAL: 5

MILK DISTRIBUTION :

The operation of Section 34 of the new Milk

Bye-laws has effected a much needed transformation in

milk distribution. The terms of the Bye-law are being

strictly observed - "No person shall sell or deliver

milk except in an unventilated sealed container, bottle

or carton, and the milk shall not be removed from such

container, bottle or carton or the seal broken, before

delivery to the purchaser. Each container, bottle or

carton shall be so labelled or marked as to show clearly
(a) thedesignation of the grade of milk contained therein:

(b) the address of the dairy or milk-depot where the milk

has been produced and/or prepared. Every bottle contain
ing the milk shall be closed with a tight-fitting disc."

The Dipper-and-Can and Tapped Can are now no longer seen in the streets of Durban. The new method of milk distribution reduces to a minimum, the opportunities for gross contamination inherent in the obsolete methods of milk distribution hitherto in force.

NEW MILK BYE-LAWS :

The New Milk Bye-laws for the Borough were promulgated on the 29th July 1931, under Government Notices Nos. 229 and 252, 1931.

Those Bye-laws represent that which may be a reasonably described as/high standard of control as regards milk production and distribution. Authority for the framing of those Bye-laws is contained in Section 114 of the Borough's Ordinance No. 19 of 1924. The fullest possible use has been

ALLY DISTRIBUTION :

Bys-laws has effected a much needed transformation in milk distribution. The terms of the Eye-law are being milk distribution. The terms of the Eye-law are being affrictly observed - was person shall sall or deliver nilk except in an unventilated sealed container, bottle or carton, and the milk shall not be removed from such container, bottle or derived or the seal broken, before or delivery to the purchaser. Each container, bottle or carton shall be so tabelled or marked as to show clear? (e) the designation of the grade of silk centained there (e) the address of the dairy or eithe depot where the milk the dairy or eithe depot where the milk the milk shall be closed with a tight-fitting disc. The Dipper-mal-Can and Tapped Can are now be

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1 BEAL-DIS MILE MEET

The New Mik Tye-Laws for the Derough were promulated on the 28th July 1831, under Government Notices A

Those specially described as Authority for the fram milk production and discribed or control as regarded of those special and discribeton. Authority for the fram of those specials is contained in Section 114 of the Bores Ordinance No. 19 of 1994. The fullest presible use has be

made of the powers under this Ordinance as regards the licensing of premises for the production, preparation and distribution of milk intended for sale within the Borough. The Ordinance fortunately provides for those powers to be extended to all premises from which the Borough Milk supply is derived, whether such premises are situated within or outwith the ordinary sanitary jurisdiction of the Borough Council.

It is considered worth while to print the full text of the New Milk Bye-laws inasmuch as they represent the latest development of the control of milk supplies in this country.

Special interest attaches to the definition of the persons and premises associated with the milk industry. The distinction between a 'dairyman' and a 'milk dealer' is made clear - the former being permitted to trade only in milk produced by his own herd. A 'milk dealer' may operate in a milk depot or a milk shop - in the latter case he is not permitted to do more than retail milk in the same containers in which it is received from the dairy or milk-depot, that is to say, the 'milk dealer' operating in a milk shop is not permitted to "break bulk" or transfer milk from one container to another.

Control is exerted through the dual requirement of registration and licensing. No premises are licensed either as dairies, milk depots or milk-shops unless these premises are, as regards structure, size, character and sanitation, suitable for the particular trading process intended to be carried on therein.

made of the powers under this protection, preparation distribution, of all interesting of prediction, preparation of straint and or interesting previous for the Boro the Continues of the Continues of the Straint of Str

text of the new Milk Byo-laws inammuch us they represent the latest development of the control of milk supplies that country.

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Control is exerted through the dual requirement of registration and licensing. No promises are licensing extension and licensing, wilk depote or milk-shops unless that premises are as according to the remains along the particular trading process interested on therein.

In addition to operating in approved premises, a dairyman or milk dealer, prior to being registered as such, must comply with the terms of Schedule "A" Sub-Section 3 with any special requirements or conditions as regards the conduct of his business as are desirable in the interests of hygiene. Sub-section 3 of the aforesaid Schedule A is left blank in order that any such special requirements, coming within the scope of the validating Ordinance, may be included. In this way, the full weight of the bye-laws and the general licensing powers of the Ordinance, may be given effect to in all branches of the milk trade from the point of production to that of distribution.

The standard for cleanliness prescribed for the various authorised grades of milk may, at first sight, appear somewhat exacting in view of the local sub-tropical climatic conditions and the fact that the bulk of operative in the milk trade are raw Zulus. But it is a fact that, although those bye-laws have not yet been in operation a full year, the large majority of dairies are capable of turning out milk well within a prescribed standard of cleanliness.

The following table shows the results obtained from nine dairies this year and last, under conditions affording an accurate comparison and a fair reflection of the progress being made:

Total	tes	sted	1: 9.			1931	19:	
					B. Coli.	Tot.O.	B.Coli.	Tot.O.
Number	up	to	Certified Standard.	Milk	1	5	5	4
Number	up	to	Grade "A" Standard.	Milk	3	5	7	8

and he errors out might written and meres alongs validating Ordinance, may os included. In this water

Only one supply fell short of the standard for Total Organisms, Grade A Milk and this supply reached the Certified Milk Standard for B. Coli.

On the whole, the year has witnessed a tremendous improvement in the quality of milk production and distribution.

CHEMICAL ANALYSIS OF MILK :

Two hundred and sixty-one samples (261) of milk were submitted for analysis, eighteen (18) of which were certified by the Borough Analyst to be under the standard required by the law, viz:-

Milk Fat ... 3.0 per cent. Solids-not-fat. ... 8.5 " "

In the case of ten of these samples the deficienc:
was slight and as satisfactory explanations were forthcoming.
no action was taken beyond warning the dairymen concerned.

Such cases are always followed up and further samples taken after a short interval.

Legal proceedings were instituted in respect of eight (8) samples under standard and in each a conviction was secured.

The average composition of all milk samples was as follows:-

Milk fat ... 3.4284 per cent. Solids-not-fat ... 8.6951 " "

VETERINARY SECTION.

During the year, a full time Municipal Veterinary
Officer was appointed to the Department, the successful

Total Organisms, Grade A Milk and this supply reached the Certified Milk Standard for B. Colf.

on the whole, the year has witnessed a trem-

CHEMICAL AMALYSIS OF SELK :

Two hundred and skyty-one samples (261) of miner were submitted for englysis, eighteen (16) of which were sentified by the Borough Analyst to be under the stands

Milk Fot ... 3.0 per cent. Solids-not-fat. ... 8.6 per cent.

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odfen was alight and as satisfactory explanations were fortheo
one enterior was taken beyond warning the dairymen concerns
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- SMOTTOT OF

Solida-not-lat ... S.4284 per cent.

MOITSELMARY YEARISATAY

Diring the year, a full time Municipal Veterina

candidate being Mr. W.A. Dykins, M.R.C.V.S., who held the position of Senior District Veterinary Officer in the Union Department of Agriculture.

Mr. Dykins assumed duty on the 15th March. Although most progressive Municipalities in Great Britain employ full time Veterinarians on the Public Health Staff, this is the first appointment of its kind in Durban. It is interesting to note that the Municipality of Johannesburg has recently made a similar appointment.

The duties of the Municipal Veterinary Officer include the general supervision of dairy hygiene and sanitation, routine clinical examination of dairy animals and the application of the Tuberculin Test.

There are approximately 1,500 cows in the fifty dairies supplying raw milk to the Borough. Those figures will, of course, be considerably augmented after extension of the Borough Boundaries.

After a thorough survey, dairies have now been classified as follows :-

- Group A. Dairies which are structurally sound, and where the sanitation and hygiene are good. Forty per cent of the cowsheds are included in this category.
- Group B. Dairies which require varying degrees of structural alterations, and improved manage-ment to bring them up to the Group A standard. Fifty per cent of the dairies are included in this category.
- Group C. Dairies which should be condemned for one or other of the following reasons :
 - (a) Defective structure,(b) Poor sanitation.

(c) Bad management, and the conditions are such that it is well nigh impossible to produce a Clean milk. Ten per cent of the dairies fall under this heading.

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Tem per cont of the dairies fell under this
heading.

The Municipal Veterinary Officer has completed a round of clinical examinations of all cows supplying raw milk. Fifteen cows (1%) picked out as clinical suspects were immediately isolated. Samples of milk for the biological test were taken from 10 cows. The results are not yet to hand.

The routine clinical examination of dairy cows, at two monthly intervals, constitutes a most valuable safeguard of the purity of milk at its point of production, eliminating as it does, gross contamination of the milk supply by tuberculous and septic udder discharges.

ERADICATION OF BOVINE TUBERCULOSIS :

In October 1930, a scheme for the eradication of Bovine Tuberculosis, by means of the application of the tuberculin test was inaugurated by the Veterinary Division of the Union Department of Agriculture. The Municipality co-operated to the extent of allocating a grant of £1,200 towards the cost of compensating the owners of animals destroyed. By the end of August 1931, practically all the dairy herds were subjected to the text, and the results are tabulated hereunder.

Number of animals tested.	Negative.	Positive.	Per-centage of Positives.
2402	1469	933	38.8%

The above figures include cattle belonging to dairies registered by the peri-Durban Health Boards, in addition to those

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In October 1920, a school for the eradication of the wine Tuberculosis, by means of the opplication of the statement bivicion berculin test was incuminated by the Veterinary Divicion the Union Department of Agriculture. The Monteipality che operated to the extent of allocating a great of allocating the comete of animals stroyed. By the end of August 1931, practiculty all the stroyed. By the end of August 1931, practiculty all the its bullated hereunter

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belonging to dairymen normally registered to sell milk within the Borough. In one dairy a second test was carried out, revealing an unexpectedly high percentage of infection - approximately 15 per cent.

It was then decided to call a halt in order to examine the position, in view of :

(1) The high infection revealed by the second test.

(2) The prevalling economic depression and the impending incorporation of the Health Board Areas.

Positive reactors to the test were destroyed at the Municipal Abattoir with results as follows :-

General Tuberculosis	15.7%
Udder Infection	3.3%
Lungs Lesions.	16.3%
Lmph Glands.	56.4%
Other Organs.	4.3%
No lesions found.	4.0%

Experience of the Bovine Tuberculosis Campaign so far, would appear to indicate that :-

- (1) The standard of dairy hygiene and sanitation requisite for the production of reasonably clean milk, does not altogether coincide with that requisite for the maintenance of a tubercle-free dairy herd, but differs from it only in such degree as to justify an insistence upon the latter as the basis of approval for licenses in the case of raw-milk-producing dairies.
- (2) Any scheme for the eradication of Bovine Tuberculosis in raw-milk-producing herds should be preceded by (1) a three-year campaign of intensive improvements in dairy hygiene and sanitation in all its aspects, including routine clinical examination of dairy animals and (2) the organisatien of adequate facilities for the replacement of reactors eliminated from herds.
- (3) The scheme should apply to all dairies producing raw milk for sale in the controlled area.

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belonging to dair, non normally regulatered to sell milk within the lorough; In one dutry a second test was carried out, revealing on unexpectedly high percentage of infection - approximately lo per cent.

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Lungs Lesions. 16.39
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Other Organs. 4.39

Experience of the Joylas Tuberculosis Campaig

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- - (3) Thombers should apply to all dairies producing

During the year, the following improvements were effected at the instance of the Health Department.

COWSHEDS:

Outside the Borough newly erected Erected or reconstructed to replace	2.
Existing buildings.	13.
Repairs to walls, floors etc.	4.
Unsatisfactory grooming of cows, warnings given.	12.
WATER SUPPLY:	
Dairies outside the Borough connected to Durban Corporation	
Water Supply.	4.
CLEANLINESS:	
Premises limewashed or otherwise cleaned after notice.	72.
Servants' Quarters limewashed and	16.
cleaned after notice.	9.
MILKROOMS:	
(a) Erected. (b) Fly-screened.	11.
(c) Fly-screening renewed.	4.
WASHROOMS FOR WASHING DAIRY UTENSILS:	
The transfer Considery convey as an and for	
Number erected.	15.
BOILERS FOR WASHING UTENSILS:	
(a) Provided. (b) Not regularly used - warnings	-
given.	4.
HIGH PRESSURE STEAM STERILIZING EQUIPMENT:	
Installed.	21.
LABOUR SOLD SOLD PRODUCTION OF ME HA	
MILK COOLING EQUIPMENT:	
Installed.	6.
SERVANTS' QUARTERS ERECTED:	10.
BATHROOM PROVIDED:	10.
SANITARY CONVENIENCES ERECTED:	7.
	14.
DAIRIES CLOSED DOWN:	T.5.
Connected to Borough Sewerage	1.

difference of the Mealth Department

PUBLIC HEALTH BYE-LAWS.

Dealing with the Registration, Licensing and Inspection of

DAIRIES and MILK DEPOTS.

DEFINITIONS.

For the purpose of these By-laws -"Council" means the Town Council of the Borough of Durban. "Dairyman" means any person who supplies or keeps for sale or sells milk obtained from his own herd.

"Milk Dealer" means any person, other than a dairyman, who treats and/or prepares for sale and/or sells milk.

"Dairy" means any premises occupied and used by a dairyman for the production and supply or sale of milk.

"Milk Depot" means any premises occupied and used by a milk dealer for the collection, storage, handling, treatment and/or preparation of milk intended for sale.

"Milk Shop" means any building or premises or part thereof in which milk is sold.

"Producer" means any person owning or having control of a herd from which milk is supplied to a milk dealer.

"Herd" means the milch cows kept by a dairyman or producer and includes any other bovine animal kept in contact with

cows while they are in milk. "Sell" means sell by wholesale or retail, and, in addition to its ordinary meaning, includes offer, advertise, keep, expose, transmit, consign, convey or deliver for sale or authorise, direct or allow a sale or prepare or possess for purposes of sale, and further means barter or exchange or supply for disposal for any consideration direct or indirect.

REGISTRATION :

2. (1) The Medical Officer of Health shall keep a register of all

dairymen and milk dealers.

(2) Every person intending to carry on the trade of a dairyman or milk dealer shall apply for the registration of his name at the office of the Licensing Officer, Durban, on the form prescribed in Schedule "A" hereto at the same time as he lodges at the said office his application for a licence or certificate of approval to the grant of a licence, and no person shall carry on the trade of a dairyman or hilk dealer unless and until --

(a) He shall have obtained such licence or certificate of

(b) His name shall have been entered in the register aforesaid.

(3) Such registration shall not be valid after the 31st day of ecember of the year in which it was effected, and every dairyman and very milk dealer shall apply for the renewal of his registration at he same time as he applies for the renewal of his licence or certificate f approval to such renewal, as the case may be.

(4) No licence or certificate of approval shall be granted unless he premises in and from which such person intends to carry on the trade I a dairyman or milk dealer shall in all respects comply with the

equirements of these By-laws. Inspections/

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PUBLIC HEALTH BYS-LAWS.

Dealing with the Registration, Licensing

DAIRIES and MILK

DESTRICTIONS

"Townstall" means the Town Chuncil of the Exrough of Durben.
"Desartal" means any person who supplies or keeps for
"Malignam" means any person who subset then a dairyman, who
treats and/or prepares for sale sund/or sales milk.

"Theats and/or prepares for sale sund/or sales milk.
"Theats and/or premises compised and used by a dairyman
for the production and supply or sale of milk.
"Malik Depot" means any premises occupied and used by a milk
"Malik Depot" means any premises occupied and used by a milk
"Malik Depot" means any premises occupied and used by a milk
"Malik Shop" means any person owning or having control of a
"Thoducer" means any person owning or having control of a
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or supply for disposal for any consideration direct or anyph or anyphy for disposal for any consideration direct or in-

RESIDENTALION :

(1) The Medical Officer of Medical Resp. a register of all and milk dealers.

2) Every person intending to carry on the trade of a dairyme dealer shall apply for the registration of his name at the of the laterating Officer, Darban, on the form prescribed in the hareto at the same time as he lodges at the said office as he lidered for a literate of approval to the grant sence, and no person shall carry on the trade of a dairymen of the unless and unitident.

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to year and redy to the value of Jon Hade moiterfainer hous (s) to year in which it was effected, and every dairymen and like the year of his replained to the renewal of his replained for the renewal of his licence or certiff year of such renewal, as the case may be.

Inv before or cartificate of approval shall be granted unitees in and from which such person intends to carry on the tryman or milk dealer shall in all respects comply with the ents of these By-laws.

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INSPECTION OF DAIRIES, ETC :

3. The undermentioned persons are hereby constituted duly authorised officers for the purpose of these By-laws :-Borough Medical Officer of Health or his duly authorised Deputy.

The Chief Sanitary Inspector or any Assistant Sanitary

Inspector of the Borough.

Any other person specially authorised by resolution of Council to perform any functions under these By-laws.

REGULATIONS FOR DAIRIES, MILK DEPOTS, ETC :

Every dairyman or milk dealer shall comply with the following: (1) In connection with every dairy or milk depot such person shall provide --

(a) A pure, wholesome and conveniently accessible water supply, free from liability to pollution and in sufficient quantity for all purposes connected with the dairy or milk depot, including the cleansing of all utensils and appliances :-

(b) Proper and sufficient housing, washing and sanitary accommodation for every person employed on the premises

and/or living therein;

(c) A room to be known as a milk room and to be used solely for the purpose of cooling, straining, mixing, handling or keeping therein of milk and clean milk vessels; the milk room shall be properly constructed of brick or concrete, with smoothly-plastered internal walls, dustproof ceiling and impervious floor suitably graded; such
room shall be well lighted and ventilated, dust and flyproofed, and shall be entirely separated from any dwelling house or cowshed, but shall be conveniently situated
to the cowshed, if any, and the washroom hereinafter described; the milk room shall not be situated within 50 feet of any privy, urinal, manure receptacle or any other accumulation of offensive matter; such room shall be kept clean and no articles other than milk and clean milk vessels or other dairy utensils shall be stored or kept in such room:

(d) A room, to be known as the washroom, for the washing of all milk receptacles and dairy utensils; the floor of such room shall be properly paved and drained;

- (e) A suitable apparatus for the sterilising by steam or boiling water of all bottles, cans or other receptacles for milk and dairy utensils; such apparatus shall not be used for any other purpose than the boiling of clean water.
- (2) In the case of a dairy, and that in addition to any obligations imposed upon such person by the preceding sub-section, such person shall provide a building or part thereof to be known as the cowshed in which the cows kept by him shall be milked. Such cowshed shall have-

 (a) Proper and effective lighting and ventilation;
 (b) Walls constructed of brick or other suitable materials,
 properly rendered in cement to a height of not less than 5 feet;

(c) A central milking passage, not less than 9 feet in width, or a rear milking passage, not less than 5 feet in width:

INSPECTION OF DATHESS. ETC :

In the case of a dairy, and that in shiften to ease and all instantion are inspected another and section, such person shall provide a building or part the section, such person shall provide a building or part the of to be known as the cowshed in which the cowshed shall be wilked. Such cowshed shall be milked.

(d) An impervious floor of cement, concrete or other material, with joints grouted and flushed level with cement; any such floor to be composed of such materials and so constructed as to ensure

soundness and durability throughout;

(e) Proper drainage for every floor by surface gutters not less than 20 inches wide and 4 inches deep to outside drained gullies properly trapped; where sewer drainage is not available the waste liquids from such gutters shall be led away to a cement-lined catch-pit outside the cowshed; the catch-pit shall be emptied at least daily and the waste liquids disposed of in such a manner as will prevent any nuisance arising therefrom; every such gutter and channel shall be properly graded and maintained so as to prevent any stagnation of the liquid therein or thereon;

(f) A suitable midden or manure receptacle, which shall be at least 50 feet from the milk room, constructed of or lined with impervious material and provided with

a close-fitting fly-proof cover.

LIST OF EMPLOYEES TO BE KEPT :

5. Every dairyman or milk dealer shall keep a list of all persons employed by him in such a manner that each employee can be identified; such list shall show the dates upon which each employee enters and/or leaves his service.

LIST OF SUPPLIERS TO BE KEPT :

6. Every milk dealer shall keep a list of the names and addresses of dairymen or other producers or persons from whom supplies of milk are received by him.

LIST OF BOVINES TO BE KEPT :

7. Every dairyman shall keep a list of all bovines comprising his herd in such a manner that each animal can be properly identified such list shall show the dates of transfers into or out of the herd, including births, deaths, sales and purchases.

USE OF COWSHED :

8. No dairyman shall permit the use of any cowshed for the keeping therein of animals other than bovine animals.

NO STORAGE OF FORAGE, ETC. IN COWSHED:

9. No dairyman shall permit of the stacking or storing of forage or other cattle feed in any cowshed, milkroom or washroom.

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(a) Proper drainage for every fisor by surface gutters not less than 80 inches wide and 4 inches deep to not sever drainage is not syntlehie the waste liquids sever drainage is not syntlehie the waste liquids from such gutters shell be led away to a coment. If not catch-pit outside the cowshed; the catch-pit shell be emptied at less that y and the waste liquids disposed of in such a manner as will prevent any nutesnot anishing therefrom; custy such gutter and channel shell be properly graded and maintained as as to prevent any stepnetics of the liquid there as as to prevent any stepnetics of the liquid there

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6. Every milk dealer shell beep a list of the names and addition or other producers or persons from whom supplies of received by him.

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COWSHED NOT TO BE USED AS LIVING OR SLEEPING ROOM :

- 10. (1) No dairyman or milk dealer shall allow any cowshed or milkroom to be used as a sleeping apartment for any human being or for any purpose incompatible with the maintenance of thorough cleanliness of the building or of milk vessels or utensils therein; neither shall he allow such cowshed or milkroom to be used in any manner likely to cause contamination of the milk.
- (2) No dairyman or milk dealer shall allow any milkroom to be in direct communication with any room used as a living or sleeping apartment.
- (3) No dairyman or milk dealer shall allow any milk to be stored or kept in any cowshed, stable or human dwelling. The milk from each cow shall forthwith, on being obtained, be removed to the milkroom. Bottles, cans, vessels or containers intended for use in the distribution or sale of milk shall not be filled elsewhere than in the milkroom provided.

KEEPING OF SWINE AND POULTRY :

- ll (1) No dairyman shall keep any swine on the premises covered by his licence within 150 yards of any dairy or milk depot, and when any swine are kept on the premises beyond that limit their styes must be maintained in a thoroughly clean, sanitary condition, and the drainage therefrom must be disposed of in such a manner as shall be approved by the Medical Officer of Health.
- (2) If poultry be kept, they shall be so confined as to avoid any danger of contamination of milk, utensils or feed.

PREMISES TO BE KEPT CLEAN :

- 12. Every dairyman or milk dealer shall at all times maintain or cause to be maintained the whole of the premises in respect of which he holds a licence in a state of thorough cleanliness and ventilation and in the case of a cowshed every dairyman shall—
 - (a) Cause the floors thereof to cleaned and thoroughly washed at least half an hour before each occasion of milking; in whatever premises milking takes place such premises shall be kept in a state of thorough cleanliness and all precautions shall be taken to prevent contamination of milk by dust, flies or otherwise; the feedstoreroom shall have no direct opening to cowshed, milkroom or room where milk utensils are stored;
 - (b) Cause the manure from any cowshed to be removed at least twice in every twenty-four hours to the outside midden or manure receptacle and cause the contents of such midden or receptacle to be removed as often as may be necessary to avoid creating a nuisance; no liquid manure shall be allowed to overflow or saturate the ground under or around the cowshed.

COWSHED NOT TO BE USED AS LIVING OR SLEEPING BOOM

before to be used as a sleeping apartment for any cowned throom to be used as a sleeping apartment for any human being any purpose incompatible with the maintenance of thorough iness of the building or of milk vessels or uterains thereins afther shall be allow such cowshed or milkroom to be used in miner likely to ususe contemporation of the milk.

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(c) Cause the ceiling or inner surface of the roof, exposed roof timbers and the inner surface of every wall of any so cowshed (except so much as may be painted or tarred or covered with a material such as to render lime-washing unsuitable and as may be otherwise properly cleansed) to be thoroughly cleaned down and then limewashed at least four times in every year, at intervals of three months, and also at such other times as may be required by written notice from the Medical Officer of Health all ceilings, walls and ledges shall be swept down and kept free from dust, dirt and cobwebs.

CARE OF MILK AND MILK VESSELS AND UTENSILS :

13. Every dairyman or milk dealer shall-

- (a) At all times and at every stage in the production, handling preparation, supply and distribution of milk intended for sale take all proper precautions for preventing the infection or contamination of such milk by dust, dirt, flies, vermin, effluvia or otherwise;
- (b) Cause all milk vessels and dairy utensils used in connection with his business to be kept in good repair, to be thoroughly cleansed and sterilised by means of steam or clean boiling water after each occasion of use and to be stored in such a manner as to remain clean.

CLEANLY MILKING METHODS :

14. Every dairyman shall ensure-

- (a) That the cows kept by him shall be groomed daily and kept clean;
- (b) That the flanks, udders, teats and tails of the cows shall be rubbed down with a clean damp cloth immediately prior to milking and that the first stream from each teat is rejected. The tail shall be fixed in such a manner as will prevent contamination of the milk.

15. No dairyman shall permit of any grooming or sweeping or any dry-feeding to take place in any cowshed where milking is in progress or half an hour prior thereto.

16. Every dailyman or milk dealer shall provide and keep at all times at his dairy, milk depot or milkshop adequate and convenient washing facilities, including a receptacle or basin for clean water, together with soap, nail brush and towels, for the purpose of cleansing the hands of every person employed in milking cows or in handling, preparing, conveying or selling milk.

CLEANSING OF HANDS BEFORE MILKING AND WEARING OF CLEAN OVERALLS.

17. Every dairyman shall ensure that every person who milks a cow on his premises shall wash his hands with soap and shall rinse them with clean water immediately before commencing to milk such cow, and

Cause the ceiling or inner curios of the roof, exposed commission timbers and the inner surios of every wall to form the damper of every man as much as man to remain interest of the surios and see man as man to remain interest of the surios of the inner to the period of the inner to the inner the surios of the inner to the inner

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An approved lubricant may be used on the hands whilst milking.

CLEANLINESS OF HANDS & CLOTHING, etc :

18. Every dairyman or milk dealer shall ensure that every person employed in or occupied on his premises or on his behalf in handling conveying or selling milk is clean as to his person and clothing whilst so employed.

CLEANLINESS OF DWELLINGS OF NATIVES AND COLOURED PERSONS :

19. No dairyman or milk dealer shall allow any premises used by him for the housing of or the washing or sanitary accommodation for his servants employed in connection with the production, sale or distribution of milk to be in a dirty condition.

MILK RECEPTACLES :

20. No dairyman or milk dealer shall use or cause to be used for the purpose of receiving milk from the cow during the process of milking or for the purpose of selling milk any pail, bucket, can, churn, bottle container of other receptacle which does not in respect of material or pattern comply with the requirements prescribed in Schedule "B" hereto or which is worn out or rusted or in such condition that it cannot be rendered clean and sterile by washing by steam or boiling water.

VEHICLES OR CARRIER: NAME & ADDRESS TO BE INSCRIBED :

- 21. (1) Every person who, by himself or by his servant, sells or distributes milk from a vehicle or other carrier shall have conspicuously inscribed on such vehicle or other carrier his name and address, and he shall further cause such vehicle or other carrier to be covered in such a manner as to prevent contamination of the milk, and shall cause it at all times to be kept in a thoroughly clean condition, and shall not permit it to be used for any purpose which may lead to the contamination or infection of the milk or cream carried therein.
 - 22. No person shall transfer or allow to be transferred milk from one container or receptacle to another on the streets or at a railway station or siding or elsewhere, except at an approved dairy or milk depot, nor shall be convey milk in any receptacle slung around or hanging on his body or in any manner likely to render such milk liable to contamination.

SICKNESS IN EMPLOYEES AND IN CATTLE AND PRECAUTIONS AGAINST COMMUNICATION & SPREAD THEREOF.

- 23. (1) Every dairyman or milk dealer shall keep himself informed of any sickness occurring amongst his employees or in any house in which he or his employees reside, and he shall keep a "sickness register", which shall specify—
 - (a) Name of employee;(b) Date reporting sick;

(c) Date when employee ceased work on account of such sickness;

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(d) Date upon which he resumed duty;(e) Name of doctor, if any;

(f) Nature of illness.

- (2) Such sickness register shall at all times be available for inspection by the Medical Offi er of Health or Health Inspector or any duly authorised person, and may be incorporated with the regist required to be kept under Section 6. Immediately upon becoming aware of the occurrence of any communicable disease amongst any persons residing in or employed on the premises covered by his licence or amongst any cattle kept therein every dairyman or milk dealer shall notify the Medical Officer of Health thereof immediately, and shall shall comply with the said officer's requirements for preventing the spread of the disease.
- (3) No dairyman or milk dealer shall knowingly allow any person suffering from any communicable disease or who is living in a house in which there is a case of infectious or contagious disease or who has recently been in contact with a person so suffering to milk cows or in any way to take part in the production or distribution or storage of milk, and no dairyman or milk dealer who is himself so suffering or who has recently been in contact with an infected person or has been living in an infected house as aforesaid shall milk cows or in any way take part in the production or distribution or storage of milk unless and until the procedure laid down in Schedule "C" hereto has been complied with to the satisfaction of the Medical Officer of Health.
- (4) No dairyman or milk dealer shall allow any person to milk a cow or to take part in the handling, storage or distribution of milk if by competent bacteriological or other examination such person has been proved to be a "garrier" of any of the following diseases :-

Enteric Fever or Typhoid Fever, including paratyphoid A and paratyphoid B; Scarlet Fever; Septic Sore Throat; Dysentery; Epidemic Diarrhoea or Enteritis; Diphtheria;

and such dairyman or milk dealer shall be guilty of an offence under this section if it be proved that he knew or by the exercise of ordinary care could have ascertained that such person was so suffering or had been in contact with a person so suffering or had been living in an infected house or was a carrier of any of the above specified diseases.

MILK OF DISEASED COW :

24. No dairyman or milk dealer shall sell the milk of any cow suffering from any of the diseases specified below, either by itself or mixed with the milk of any other cow, and he shall be guilty of an offence under this By-law if it be proved that he knew or by the exercise of ordinary care could have ascertained that such cow was diseases :-

> Tuberculosis. Anthrax; Mastitis; Cowpox;

Foot and Mouth Disease; Actinomycosis; Gastro-Enteritis; Mange; Contagious Abortion; Any Septic or Febrile Condition. Date upon which he resumed duty:

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OUTBREAK OF SICKNESS ATTRIBUTABLE TO MILK :

- Whenever the Medical Officer of Health shall be of opinion that the outbreak or spread of sickness or disease within the Borough is attributable to milk produced or sold by any dairymen or milk dealer or itinerant vendor of milk, such person shall, on request being made to him by the Medical Officer of Health or other duly authorised officer of the Town Council, exhibit for inspection all invoices, accounts, books and other documents relating to the supply of such milk, and shall furnish forthwith to such Medical Officer of Health or to such duly authorised officer-
 - (a) A full and complete list of the names and addresses of
 - the customers or persons to whom he supplied such milk;
 (b) A full and complete list of the names and addresses of
 the farmers, dairymen, milk dealers or other parties
 from whom, during a period to be specified by such
 officer, the milk complained of or any part thereof
 was obtained.
- 26. Any dairyman or milk dealer or the consignee of any milk or any servant or agent of any such person aforesaid who, when required by the Medical Officer of Health or by any duly authorised officer to give information as to the place or places in which any milk was produced, offeredfor sale or sold, withholds or refuses such information or knowingly gives false or misleading information, shall be guilty of a contravention of these By-laws.

POWER TO FORBID SALE OR USE OF MILK IN CERTAIN INSTANCES :

- 27. (1) If it shall appear to the Medical Officer of Health that any person within the Borough is suffering from any sickness or disease attributable to milk supplied to such person from any dairy, milk depot or milkshop or that the milk from any dairy, milk depot or milk shop or other place is likely to cause sickness or disease to any person residing in the Borough, such Medical Officer may visit and examine such dairy, milk depot, milkshop or other place and he and/or an approved Veterinary Surgeon may examine all animals therein.
- (2) The Medical Officer of Health shall have power to order that the milk from such dairy, milk depot, milkshop or such other place shall not until further order be sold or supplied to any person whomsoever or be caused to allowed to be sold or supplied.
- (3) No dairyman or milk dealer shall sell or deliver the milk of any cow about to calve or newly calved, taken within the fourteen days preceding and the six days following calving, or from any cow giving less than four pints per diem. Sick and calving cows shall be separated from healthy cows.
- (4) No dairyman shall keep any sick animal in a cowshed where milk is produced for sale nor shall he knowingly permit any cow to calve in such cowshed or to be therein within six days after calving.

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POWER TO PROHIBIT SALE, ETC., OF TUBERCULOSIS MILK :

28. Should the presence of tubercle bacilli be detected or discovered in any sample of milk by a qualified bacteriologist, the Medical Officer of Health may, by notice under his hand, prohibit the sale or distribution of milk from the cowshed from which the sample was taken until such time as he has received a certificate from a qualified veterinary surgeon that such surgeon has inspected the herd and that the source or sources of infection have been removed and stating the method of disposal of the affected animal or animals.

EXTRANEOUS SUBSTANCES NOT TO BE ADDED TO MILK :

29. No dairyman or milk dealer shall add any preservative or water or any dried or condensed milk or any fluid reconstituted therefrom to any milk intended for sale, neither shall he himself by any servant or agent sell any milk to which any such addition has been made.

No dairyman or milk dealer either by himself or any servant or agent shall sell as milk any liquid in the making of which dried milk or condensed milk has been used.

RIGHT OF ENTRY BY MEDICAL OFFICER OF HEALTH & OTHERS :

surgeon or other duly authorised officer shall have full access and ingress to any premises in respect of which a licence or certificate of approval has been issued for the purpose of inspecting the premises and the cows, milk, receptacles for milk and the utensils kept therein, and the proivisions made for keeping the same in good, clean and sanitary condition and of ascertaining whether the requirements of these By-laws are being observed. Every dairyman shall bring in all the cows of his herd for examination at any reasonable time when thereto required by a duly authorised officer. The Medical Officer of Health or a duly authorised officer being a qualified medical practitioner may examine any person resident on or employed in or about any such premises as aforesaid for the purpose of ascertaining whether such person is suffering from any infectious or contagious disease.

COPY OF REGULATIONS TO BE EXHIBITED :

31. Every dairyman or milk dealer shall keep affixed in premises covered by his licence, in a conspicuous and easily accessible place, a printed copy of these By-laws.

GRADING AND SALE OF MILK :

32. No person shall sell any milk which is not labelled or described or otherwise represented as being one of the following grades - viz: "Certified Milk", "Grade A Milk", "Pasteurised Milk", "Sterilised Milk" - and no person shall sell milk so labelled or described or otherwise represented if such milk does not conform to the standard of cleanliness hereinafter prescribed for such grade.

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STANDARDS OF CLEANLINESS FOR EACH GRADE :

- 33. The standard of cleanliness shall be such that on a sample being taken at any time before delivery to the consumer the milk shall contain, in the case of -
 - (1) "Certified Milk".

(a) Not more than 30,000 bacteria per cubic centimetre;
(b) No coliform bacillus in one-tenth of a cubic centimetre

- (2) "Grade A Milk".

- (a) Not more than 200,000 bacteria per cubic centimetre; (b) No coliform bacillus in one-hundredth of a cubic centimetre.
- (3) "Pasteurised Milk":

- (a) Not more than 200,000 bacteria per cubic centimetre;(b) No coliform bacillus in one-hundredth of a cubic centimetre.
- (4) "Sterilised Milk":

(a) No bacteria and no coliform bacillus in one cubic centimetre

GRADING OF PASTEURISED MILK :

- 34. Milk to be heat-treated at a milk depot shall not be treated more than once and shall not be eligible for subsequent grading as "Pasteurised Milk" unless upon arrival at such depot it conforms to the following requirements-
 - (a) Acidity not greater than 0.18 per cent;

(b) Temperature not to exceed 75°F.

The type of apparatus and the methods to be employed in the heat-treatment of milk shall be such as conform with the requirements prescribed in Schedule "B" hereto. DELIVERY OF MILK :

- 35. No person shall sell or deliver milk except in an unventilated sealed container, bottle or carton, and the milk shall not be removed from such container, bottle or carton or the seal broken before delivery to the purchaser. Each container, bottle or carton shall he so labelled or marked as to show clearly-
 - (a) The designation of the grade of milk contained therein;
 - (b) The address of the dairy or milk depot where the milk has been produced and/or prepared.

every bottle containing the milk shall be closed with a tight-fitting lisc.

PRODUCTION OF CERTIFIED & GRADE A MILK :

36. Every person intending to sell or supply milk shall, in his pplication for registration, state the grade of milk he intends to and will sell or supply during the period covered by such registration, and he shall not sell or supply any grade of milk other than that in espect of which he is registered. Every dairyman shall further be equired to satisfy the Medical Officer of Health that in respect of the production of certified milk: STANDARDS OF QUENCHINGS FOR EACH GRADE :

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- (1) The herd which is registered to produce certified milk shall be completely isolated from all other cattle.
- (2) Every animal in such herd shall be submitted to a physical examination by an approved veterinary surgeon at intervals of not more than two months, and shall further be submitted to a tuberculin test at such intervals and in such manner as may from time to time be prescribed in regulations issued by the Government of the Union of South Africa for the purpose of eradicating tuberculosis from dairy herds; the veterinary surgeon's certificate and the certificate of the prescribed tuberculin test shall be forwarded to the Medical Officer of Health within fourteen days after the respective dates of those certificates.

The dairyman shall not permit any animal to be injected with tuberculin except on the occasions of the prescribed

tuberculin tests.

- (3) No animal shall be added to the herd without having first passed the prescribed tuberculin test within the time to be specified in the aforesaid Government Regulations.
- (4) Where any animal of the herd is certified as reacting to the prescribed tuberculin test it shall forthwith be removed from the herd, and where any animal shows evidence of any disease which is likely to affect the milk injuriously it shall be isolated or removed from the herd as the case may require. The milk from an animal so isolated shall not be sold as milk from the herd. The dairyman shall inform the Medical Officer of Health of the reasons for the isolion or removal of an animal, and, in the case of removal, of the manner in which it has been disposed of.
- (5) The dairyman shall cause every person employed in connection with the milking or the handling, preparation or distribution of milk to be submitted to the Widal Test for enteric fever and to the Wassermann Test for venereal disease, and no person shall continue to be so employed unless such tests shall in his case show negative results as certified in writing by a qualified medical practitioner. No new employee shall be engaged for such work without first being certified as having passed the test aforesaid.
- 37. The provisions of Sub-sections (1), (2), (3) and (4) of Section 36 aforesaid shall apply in respect of the production of Grade A milk.

PURCHASING SAMPLES OF MILK FOR EXAMINATION :

38. The Medical Officer of Health or any Dairy or Sanitary Inspector or any duly authorised officer may demand, on tender of payment, from any dairyman, milk dealer or itinerant vendor of milk a sample or samples of any milk, milk products or articles purporting to be such which are stored, distributed or exposed for sale or in process of delivery by him or by his servant, and any such person as aforesaid who omits or refuses so to supply such sample shall be

guilty of a contravention of these By-laws.

The Medical Officer of Health or any Dairy or Sanitary Inspector or any duly authorised agent of such official may, within or without the Borough demand, on tender of payment, from any consignee or purchaser of any milk produced outside the the Municipal Area and delivered or to be delivered or in the course of delivery within the Municipal area, whether by rail or otherwise, any sample or samples of any milk or articles purporting to be such, and any such consignee or purchaser who shall omit or refuse to supply such sample shall be guilty of a contravention of these By-laws.

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CONTRAVENTIONS AND PENALTIES :

- 39. A person contravening any of these By-laws shall, upon conviction be liable to a fine not exceeding in the case of a first offence the sum of Ten Pounds and in the case of a second or subsequent offence the sum of Twenty Pounds.
- 40. The following By-laws are repealed, with effect at the date of promulgation of these By-laws, namely :-
 - (1) The Public Health By-laws for the Borough of Durban relating to dairies, cowsheds and milkshops, promulgated on 6th June, 1912, being By-laws 78 to 92 inclusive; and
 - (2) Milk By-laws of the Borough of Durban, promulgated under Provincial Notice No. 240 of 1928, dated 25th July, 1928.

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(1) The Public Health By-Lane for the Egrough of Surban of relating to delries, commission and relating to delries, promises and relating to delries, promises and relating to 92 inclusives at

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SCH	EDULE "A",						
	Application No						
BORG	OUGH OF DURBAN.						
(1) 10 000	New						
	Renewal						
ADDI TOAMTO	desire the term of the land the same terms and the						
APPLICATION FOR REGISTRATION AS DAIRYMAN & MILK DEALER							
TO TORKING							
of							
a,,	by occupation,						
hereby app	ly, in conformity with Section 2 of your Milk By-laws						
1931, for 1	registration for the year ending 31st December 19						
as a dairy	man and /or milk dealer at the premises situate at						
•••••	•••••••••••••••••••••••••••••••••••••••						
I in	tend -						
(1)	to sell the following prescribed grades of milk :-						
	Certified Grade "A"						
. 1	Pasteurised Sterilised						
(2)	To use the following types of utensils, receptacles and apparatus:-						
MALL THUS	Material and Pattern.						
	Milking Machine						
	Milking Pails & Buckets						
	Delivery Cans						
	Milk Strainers						
	Milk Bottles						
	Cooling Apparatus						
	Pasteurising Apparatus						

I-V 11 - 1104 77 0 11-2-1-.. Of the land of the same of BELLEVILLE SECTION · contract is

I hereby agree :-

I attach a plan of the premises in respect of which a licence is desired. Person by whom the business will be actually carried on and supervised:

Name in luit	
Address	
Signature of Applicant (Name in full)	

Address

.............

.....19....

"Dairyman" means any person who supplies or keeps for sale or sells milk obtained from his own herd. "Milk Dealer" means any person, other than a dairyman, who treats and/or prepares for sale and/or sells milk.

SCHEDULE "B".

BOROUGH OF DURBAN.

Approved Types of Dairy Utensils, Dairy Apparatus & Milk Receptacles.

MILKING PAILS AND BUCKETS.

To be of hooded pattern, with a one-piece seamless body. Constructed of stout gauge steel plate, heavily coated with tin. The formed hood to be soldered flush to the top outside and the joint inside heavily loaded.

ents of the Borough of March on the Heart and Smittery December of the Borough of March only presides the such the Cortinegention of my cowehid and cally premises for such the Boroting the tores of any licence of licences for the sale tilk from such premises within the Boroting the tore of any licence of licences for the sale of eachief by business in such a way as to ned from his own herd, by person, other than a dala olg-sac a dalw interag pobogo and done besses glivered estain to bessess in bestoned on book and to the tot of book and the tot of the tot th

DELIVERY CANS.

To be pressed out of stout gauge steel plate in one piece, seamless and heavily coated with tin, and provided with suitable cover of similar material capable of being scoured or locked so as to render can spill-proof, dust-proof and rain-proof.

MILK RECEIVING VATS.

To be of stout steel plate, heavily coated with tin, with suitable cover and brass plug draw-off taps, easily removed or dismantled for cleaning.

MILK STRAINERS.

To be made of stout gauge steel, seamless and heavily coated with tin, with strong tinned perforated disc and cotton wool filtering medium.

MILK BOTTLES AND CARTONS.

- (a) Bottles to be of best quality clear white flint glass, with reinforced mouth.
- (b) Cartons to be of non-absorbent material imperviously sealed.

COOLING APPARATUS.

To be of the following types :-

- (a) Round Tube Milk Coolers (flat pattern):

 Made from solid drawn copper tubes, with brass headers.

 The top and bottom troughs to be made from stout gauge sheet copper, removable for cleaning purposes.

 All parts coming in contact with the milk to be heavily coated with tin.
- (b) Cylindrical Coolers:

 To be made from hard copper, with deep corrugations to give the maximum area of cooling surface, and provided with large receiving bowl, made from stout gauge sheet copper.

 All parts coming in contact with the milk to be heavily coated with tin.

APPARATUS FOR PASTEURISING OR STERILISING.

The body of pasteurising or sterilising apparatus to be of metal, or metal-lined wood, properly insulated; all parts of such apparatus coming in contact with the milk to be heavily coated with tin.

SCHEDULE "C".

The Provisions of Section 22 (3) shall apply as follows :-

Enteric Fever.
Paratyphoid A.
Paratyphoid B.
Bacillary Dysentery.

to be pressed out of stone gange steel, place in one place the tile between the city between the terminal to train and the terminal to train and the terminal to train and training to train and training to train and training to training to the training training to the training training training to the training tra THE PROBLYTHE VALUE. tue stiw mas state betace valveed, estald lesse to ed to exper end brease plug drawark tape, estally removed to dispant bus asalmasa , fasta sama tutta to abouted; AD THE BRITISH OF Value to be of anounced -t pages univolish and to be Round Tube Milk Cooleds (file) Made from solid drawn copper The top and botton troughs coaste with time to contract our teens raus toots enckingerios dest ndly regres build mort eben ed offi by tel ryong the partition and look and provide will regres them boyd, made from source based abset coppagn allysed ed of allm ent dily Jostpoo of palmos stred Ila ody of pasteuricum and liberta and pasteur to be of metal tell pasteur of such, stus condust in condust with the milk to be beenly condust in condust to be beenly condust to be beenly condust. a Provisions of Section 22 (2) shall apply as follows 1-A blodgysant

CASES.

Not to resume work involving milking or handling of milk utensils or containers until three specimens of stools and urine taken in consecutive weeks have proved negative to the infecting organism.

CONTACTS.

No exclusion, provided patient is properly isolated.

ENTERITIS.

CASE.

Not to resume work until seven days after cessation of symptoms.

DIPHTHERIA.

CASES.

Not to resume work until three consecutive negative swabs have been obtained from throat and nose.

CONTACTS.

Work may be resumed after one negative swab has been obtained from throat and nose.

SCARLET FEVER.

CASE.

Minimum exclusion six weeks from onset or until any nasal or ear discharge or any crack or sores are dry and healed.

CONTACTS.

Immune contacts may resume work at once after disinfection of clothing. Non-immune contacts ten days after last contact with patient.

The above regulations imply that the patient is isolated to the satisfaction of the Medical Officer of Health, who has power to increase or reduce the periods of exclusion from work.

Not to pretend to midia milking or handling of solk uses to contain as until three apertures of social and units thing of social and units thing of social and units thing of social and the contains of the delication of the delic wingqour at the kind agetyout anotaulous resume were until seven days after pensar :...aamojqmg seen obtained from Diract and portes. The state of the state of the enhadd after one negative such has been abbaine re litter to rease nort notes whe notablese special out the our same us special to service the noticelmiate that's some as when emusay you adopted . A realist table mouth aven one excepting animal-orgin species bedalcat at two trap put tand virel anottalingor evods off, and one off the last to teaker light which to teaker and the state of the more state of the more state of the stat

Unsound Food:

The following table shows the nature and quantity of unsound foodstuffs dealt with under the Public Health Act, No.36, 1919, viz:

Article.	Seized.	Handed over Voluntarily.
Ham Salt Herrings "Fresh" do	44 lbs. 288 tins.	8 tins. 1 barrel.
Bacon Mutton	255 lbs.	450 lbs.
Tongues Ox. Sweets-Mixed.	8 legs.	5 cases.
Cocoa Nut. Canned Fish Jam Pulp.	space and wash, one	3 cases. 5 cases. 13 cases.
Poultry)	Life provid to be de	133 fowls. 6 Turkeys.

Foods & Druga.

During the year, the following samples were submitted by this department for analysis.

Description.	Number.	Genuine.	Below standard or adulterated.
Milk	261	243	18
Ice Cream	16	6	10
Cream	7	4	3
Sausages	2		2
Cheese	2	2	-
Butter	2	2	-
Lard	1	1	-
Dripping	1	. 1	
	292	259	33

driedl pridus and recommended and well - 1- 2:1B driving goodstuffs dealt, with 73 X 3 3 3 3 1 3 1 1 1 1217 10:36, 1929, vist · B. -Durden the Lines t Constitutes and restanting 100 3 OV 3

Legal proceedings were instituted in respect of eight samples of milk found to be deficient in quality of adulterated, a conviction being recorded in each case.

In the remaining ten cases the deficiency was slight and as satisfactory explanations were forthcoming, proceedings were not considered to bewarranted, the dairy keepers concerned being warned to have the quality of their milk improved.

Prosecutions were successfully instituted against ten vendors of ice-cream, themajority of these samples having on analysis shown a very serious deficiency in the Milk Fat content.

Two samples of cream analysed, disclosed the presence of preservative and a third proved to be deficient in quality, but in each case the adulteration or deficiency was so slight that beyond warning the sellers no further action was taken.

With regard to the two samples of sausages, similar warnings were given by this department as the amount of preservative present in each sample was only slightly in excess of that permissable.

In addition to the above, a further 250 samples of milk were submitted for bacteriological examination during the year.

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L2. MATERNITY & CHILD WELFARE :

(Report by Medical Officer in Charge, Maternity & Child Welfare Department.)

The figures in the accompanying Annual Report for the year ending 31st July 1932, show that there has been a considerable increase in the work in all branches of the Department.

The total attendances at the Clinics for the year were 30,551; 24,185 of these attending at the European and Coloured Clinics at the Old Court House; the other 6,366 attending at the Indian Clinic in Brook Street, compared with 25,314, 21,928, 3,386 respectively for last year. This shows an increase in the total for the year of 5,237 attendances, of which 2,257 was the increase in numbers attending at the Old Court House Clinic, and 2,980 the increase at the Indian Clinic.

Clinic.

The number of infants under one year attending the European and Coloured Clinics was 992, compared with 964 last year, although the total number of births was 1,080, as compared with 1,095.

The total attendances of infants under one year was 7,990, compared with 7,445 last year.

The number of expectant mothers attending the Old Court House Clinic was 606 compared with 559 last year; the total number of attendances at the ante-natal Clinic 1,412 compared with 1,346 last year.

The number of cases receiving dried milk free was 123, compared with 97 last year.

HEALTH VISITORS WORK :

The total number of visits made by the Health Visitors is rather less than the number last year, this being due to preparation of the work in the form of small models and other detailed work for Health Week, and to other propaganda work the Health Visitors have had to undertake. The proportion of infants found to be breast fed at the first visit is, however, slightly higher than that of last year - 973 compared with 966 - although many of the mothers are in very poor circumstances.

WORK OF MIDWIVES.

A second Midwife was appointed during the year. She commenced work on the 9th May 1932.

The total number of cases attended by the Midwives was 176, compared with 142 last year. The total number of ante-natal visits paid was 374 compared with 285 last year.

There were again no maternal deaths and no serious maternal complications.

The Maternal Mortality

The number of intents under one year attending the sortopess and Onlowed Clinics was 982, compared with 964 lay year, alkhange the total number of Mirchs was 1,080, as compared with 1,080, Court House that the benegues and saw plants sawed from the companies to the action of a secondaries to the companies of the compared with 1,346 last year. any serie 19.26 hours antilesen been to midnus ent compared with 97 last years The total number of white made by the Bealth Visite ts rather less that the number less year, this being due to preparation of the work in the first of the work and to the condition of the first work in the first work and to other months work for the first work and to the first work to the first work and to the first work and to be prepared by the first work and to the first work and to the first work and to the first work which the first work work with the first work and to the first work and the first work which the first work work with the first work and the first work work which the first work and the first work work work to the first work -contin tody year at the mether of the year, poor is the - 886 ,8:

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The Maternal Mortality is again low, being 3.28 for Europeans and nil for Coloureds.

The Infant Mortality Rate 47.82 is higher than it has been for several years, although the incidence of Infantile Diarrhoea which usually accounts for a larger number of cases when the death rate is high, is exceptionally low. It is probable that the high incidence of Malaria, Influenza and poverty during the year, has affected the health of the mothers and reacted on the infants.

Of the 44 deaths recorded, 24 or more than half, took place in the first month of life; 19 of these in the first week due to prematurity, congenital defects and birth injuries, again pointing to the need of more wide-spread ante-natal care.

Of the other 20 deaths, 5 only were due to Enteritis. and none of these occurred in totally breast-fed babies.

The Indian Child Welfare Clinic has now completed a year, with one whole-time European Health Visitor, and one whole-time Coloured Midwife doing the same work as has previously been done for the European and Coloured mothers and babies, and the numbers show a very gratifying result.

Doctors Minnie Alper and Janet Jackson each hold a Clinic and one day a week at the Indian Centre.

The number of expectant mothers attending the Clinics has been 123.

The number of cases attended by the Coloured Midwife 69.

The ante-natal and maternity part of the work is the most important foundation of the work, so this shows a very good beginning for the first complete year.

SUPERVISION OF MIDWIVES :

As well as the routine work at the European and Asiatic Clinics, I have endeavoured to start the work of Inspection of Midwives. This has been made possible by Dr. Jackson attending two of the European Clinics each week, to allow of my attending to this work. One hundred and fifty five women have registered as practising Midwives; 134 Europeans; 7 Coloured; 13 Asiatic.

Of the Europeans 112 are qualified - 22 unqualified.
" " Coloured 2 " " - 5 "
" " Asiatics 1 is " - 13 "

All these Midwives have been interviewed by me; particulars noted of their qualifications or experience, and a record of their work will be kept on cards for that purpose.

personal To The least bear for several years, although the incidence of the least bear of the least bear of the least of the least when the least bear and read in the incidence of the large the least bear the least bear and powerly during the read of the least of element was east clubble engine and control to the control of the solding and one day a week at the India carrie. sat arthurite exection instructed to modulat odl al Arow ent to trag withwastem bres lotati-offe ent aword play on your and to colombunot descripted book was a new many and the colombus descripted by the colombus Tatalog ver a ga<u>llinillo To. Mart Yarka</u> Sna _sanal was sas sas sas sas sas Promise otto a file to the reactes were the last to the last of the last to th ble became the translation of the became in the world of the bell to be became the count makes out? in the last to the Aboralisupmu 25 - Beltalisup on SII NEW TO WALL these Midwives have been in seviewed by well

It has not been possible to see them all quarterly as is laid down in the Government Regulations; to carry this out would require the time of a whole-time official.

The unqualified Midwives will require a considerable amount of supervision. Their equipment is poor, but they have been given a little time to remedy this. Most of the unqualified Coloured Midwives do not even know how to read a thermometer, or what the reading means when they can do so.

One unqualified European Midwife who had been practising for many years in Durban, was refused registration on account of refusing to comply with the regulations after she had applied for registration. Two European and one Coloured Midwife, who have been registered, have since been warned for not complying with the regulations and their work is being watched.

It is obvious that something will have to be done to improve the work of the unqualified Midwives. The Coloured and Asiatic Midwives could not be refused registration as there are not sufficient qualified ones to carry on the work.

When the Cinematograph Film, which is in process of preparation - depicting how district work is carried out by the Municipal Midwives; showing the use of all the articles they are required by the regulations to carry in their bags; the different modes of sterilising these articles; the preparation of the room and the treatment of the patients, mother and baby - is completed, it will form a very valuable means for educating these Midwives up to a somewhat better standard of work.

NURSING HOMES,

During the year, I have inspected and reported on the staff, equipment and running of 19 Nursing Homes.

DAY NURSERY.

In previous years I have paid a weekly visit to the Day Nursery in Clarence Road, which is run by the Child Welfare Society, in order to supervise the dieting of the infants and young children in that institution, and have paid other visits to new entrants when sent for by the Matron.

This year, however, there has been a continued epidemic of Influenza in the home; there has also been an epidemic of Whooping Cough and many cases of Malaria, and on this account there has been much more need for medical supervision, and I have averaged two or three visits to the Nursery every week.

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ENTRANTS TO SERVICE.

I have in spare time medically examined 25 entrants to the Municipal Service.

CINEMATOGRAPH FILM

A considerable amount of the time of all the staff of the Department has been spent in the drawing up of a scenario on and in the photographing of a film representing the work done in a Child Welfare Department.

In this film demonstrations are given on all the essential principles of Child Welfare work, viz: infant feeding, natural and artificial; feeding of the toddler and the mother; clothing; suitable arrangement of the different rooms in the home; treatment of minor ailments, etc.

This film should be very useful for propaganda work, and should form a very excellent basis for lectures on the different branches of Child Welfare work.

COMMITTEES.

I have attended a committee of the Day Nursery once a month, and a committee of the District Nursing Association once a month.

I attended the Annual Meeting of the National Council of Child Welfare held in Bleemfontein in October 1931, and June 1932.

At the last meeting of the National Council for Child Welfare a resolution was passed that more should be done for the health of the toddler, the child between the ages of one year and school age, and this matter is being stressed in other countries as well.

The toddler as seen at the Clinic to-day is a very serious problem. It is very little use giving a mother advice on what the child should have to eat when she has not the money to buy it, and it is equally useless to give these children tonics which make them hungry.

A very large number of men with families are at the present time earning from 6/- to 8/- a day, i.e. from 36/- to 48/- a week when they are on full time.

It has been worked out that for families with small incomes, the income if apportioned roughly in the following manner, can be made to go round :-

Food ... 60%
Rent ... 16%
Clothing ... 12%
Fuel & light ... 8%
Other items ... 4%

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Taking a family where the father earns from 36/- to 48/- a week, the amount allowed for rent would be from 5/9 to 6/8 a week.

Where in Durban can anyone find accommodation for a family at 5/9 or even 6/8 a week? on this account the money for the rent has to be taken from the money which should be spent on food, and the family has to go short of food.

Every authority is agreed that a growing child needs at least a pint of milk a day. In the families I am speaking of, if there is a pint of milk a day or its equivalent in condensed milk for everyone, they are lucky.

Where the Societies are dealing with so many people who are unemployed, it would be impossible for them to help the families where the husband is employed, though only earning a small sum. It seems to me that if 6/- and 8/- a day are to be considered a living wage, that it is time that something should be done to bring rents down in proportion, so that a large enough percentage of the income can be spent on food.

- 22 -

Paking a fomily where the father same from 26/- to 48/- to the mount allowed for sent would be from the to 8/8 a week.

Where in Durbin can anyone find accommodation for a femily at 5/9 or even 6/8 a week? on this account the somey for the rent has to be taken from the money for the rent has to be taken from the money which should be spont on food, and the family has to go

Every authority is agreed that a greathe oblid and the tentilias I am the tentilias I am seeking of it there is a pint of milk a day or its equival appealing of it there is a pint or milk a day or its equival and in condensed milk for everyone, they are inchy.

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ANNUAL REPORT.

Child Welfare Department.

1931-1932.

Total Medical Sessions		353,
Total Ante-natal Sessi		
Total attendances at C		
New cases out of above		
No. of infants under 1	year attending	Clinic 992.
Total attendances of i	nfants under 1	year., 7,990.
No. of expectant mother	s attending Cli	nic 606.
No.of cases receiving	dry food at red price .	
No. of cases receiving	dry food free .	123.
Amount of dry food sol		
Amount of dry food giv	en free	2,145 lbs
		-
BIRTHS :		
Notifications.	11 017 211	
Europen	European	874 129
Registrations.		
MERCHAL TRACTIC LAUGHD	European	160
	% Col.)	382
STILL BIRTHS :		
Notified		26
	Coloured	3
Registered		38
DEAMAG	Eoloured	8
DEATHS:		Language
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European Coloured		9) 26

Citifications and all ... 2801+P494 Total And the Committee of the Committee New position out of the second second second second our attitude the builded bearing a father of any Terral at the delication of the art a comment of the art a comment of the art and a comment of t where excelenters bereither attitudes. Clearly a drawing Compten to Book with great Mer seems To. of all the second . Sin sofft me in wish table in the life and and are the first server of the first of the following Service of the Contraction of th SELLE BERNES Co magnetta

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Attended Health visit only.			Health visited and Attended.		
Eur.	Col.	Eur.	Col.	Eur.	Col.
1	2	10	1	6	6

ANTE-NATAL WORK.

No. of expectant mothers attending Clinic	. 606.
Total Number of attendances	1,412.
No. of above cases attended by Municipal Midwife	176.
No. of cases referred Addington Hospital for Confinement	250.

MATERNAL MORTALITY.

No. of Deaths from causes due to childbirth :-

European..... 3. Coloured..... -.

DEATH RATE.

European..... 3.28. Coloured.....

MATERNAL DEATHS : attended by :-

Midwife throughout.	Doctor.	Both.	Nursing Home.	Total for year 1931-1932.
1		-	2	3

Causes of Maternal Deaths :-

Eclampsia Puerperal.	Acute inversion of uterus following confinement - shock - haemorrhage.	Perinephritic abscess - general Septicaemia.
1	1	1

	or .	

MIE-MATAL WORK

No. of superist sections attacked to low

Total Number of attendances as nedank LafeT

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TERNAL DEATHS : Strange by I.

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uses of Maternal Deaths :-

Perinsphritic abaness - general Septiments.	Apperal confinement eller

1 23	

HEALTH VISITORS' WORK.

INFANTS UNDER 1 YEAR.

				Fir vis	st its.	re- visits	
	Breas Mixed Artif	The same of the			73 51 73	1,026 509 1,043	
		TOTAL:		1,0	97	2,578	
	OLDER CHIL	DREN.		1	93	4,445	
Still Births.	Deaths.	Expect- ant Mothers.	Mater nal Deaths.	Ophth. Neon.	ion of	Reports to Sanitary Office.	Con- tacts
32	61	598	3	29	25	4	9
	Total number Total number TOTAL NUMBER " " Premature 1	er of expe ER OF CAS " ANT births bo	MUNICIP ES FOR YEA E-NATAL VI rn alive	ers vis AL MIDW R SITS	IVES.	3	526. 117. 176. 374.
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BIRTHS.

Table showing the Monthly Distribution of Births occurring among Borough Residents, giving Race and Sex, 1931 - 1932.

Month	Eur M.	ropean. F.	Colo M.	oured. F.	Nati M.	ves. F.	As M	iatic.	To M.	otal. F.
1931. July August September October November December 1932. January February March April May June	39 33 40 36 32 40 39 42 39 46 43 52	33 45 34 42 35 36 32 34 40 39 34 35 35	7911985 558897	7 13 4 4 3 7 6 7 5 5 5 8	9994 10 6589 114	779989 455553	38 57 38 40 38 29 33 19 32 29 34 44	38	93 108 98 89 84 84 83 71 87 87 97 117	79 103 83 97 79 83 81 59 78 82 71 94
TOTAL :	481	439	86	74	100	81	431	395	1,098	989

Table showing Illegitimate Births occurring among Borough Residents, - 1931 - 1932.

Euro M.	pean. F.		oured. F.	Nat M.	tives. F.		atic. F.	To M.	tal. F.
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Table showing the Monthly Mattheway alving Reco and Sex,

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		100	61	38	36 1 36 1 36	58	

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Total.	Leavedam.	oloured.	Suropean. C
		08: 3	9 70

Monthly distribution of Births among Non-Residents giving Race :-

1931 - 1932.

1931-1932.	European.	Coloured.	Native.	Asiatic.	Total.	
July August September October November December January February March April May June	32 28 21 34 27 23 21 34 31 30 34 29	3 - 5 - 4 6 3 3 - 6 4 4	38 26 40 42 43 49 39 35 43 52 35 38	334141313010	76 57 67 76 75 78 66 72 77 90 73	
TOTAI	TOTAL: 344 38 480 18 880					

INFANT DEATHS FROM ENTERITIS - FEEDING.

Barley Water and Cow's Milk.	Breast and Cow's Milk.	Lactic Acid Milk.	Nestles.	Cow's Milk.
vel of expec	1	1	1	1

INFANTILE MORTALITY _ AGES & CAUSES OF DEATHS - See page 4.

EUROPEAN INFANTILE MORTALITY - See page 3.

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ANNUAL REPORT.

1931-1932.

INDIAN CLINIC.

Total Ante-natal Ses	sions				99.
Total Medical Session	ns				99.
Total Attendances at	, Clinic,			6,3	366.
No. of new Cases out	of abou	ve Numbe	r	1,1	.66.
Total attendances of		under		1,3	.80.
No. of expectant Mot	hers at	tending	Clinic.		123.
No. of Infants under	1 year	n	#	2	287.
HEAL	TH VISI	rors' W	ORK.		
No. of infants under	l year	visited		. 3	333.
No. of expectant mot	hers vi	sited			88.
INFANTS UNDER 1 YEAF	3.				
			First Visit	of a community of the c	Re- visits.
Breast Fed Mixed Artificial			238 17 23	7	152 38 55
112 022 2020			275		245
					10000
OLDER CHILDREN.			11:	3	288
TOTAL VISITS.					921
ream under ennours I	ANTE-NAT	AL WORK.			
No. of expectant mot Total number of atte	thers at	tending	Clinic		88.
M	UNICIPAL	MIDWIFE			
Total number of Case Total No. of ante-na	es atal vis	its for	6 month	ns	69.
	No ser	ernal De ious Mat 11 Birth	ernal (Compl:	ications,

- 35 -

. reduced .. Jaumes

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DINING MARGINI

. es	Andrews Injan-syna large	
.00	otal Medical Sections	
.000,0	bed Attendances of Chimies	
	on of new Cares out above leaders.	
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	n . near I reput stuainl 10.0	
	- ARLAN TERRITORY DAVIDAGE	
	O. of infants under 2 years winted to	
	Jenila .	
	BIRDLY SAFETERS TRACTED SON	
	f lastand Larmatell oll	
	/ Marael Larmate of	
	/ Watted Laments of 02 October 18 Company October 1	

3 <u>LEGAL</u>:

Law or by-laws relating to.	Cases.	Convictions, & Consents to Judgment.	miss-	fines. £. s. d.
Sale of Milk without	BY ROB	diam.		
Adulteration of Milk.	7	8	1	14. 0. 0.
Manufacture, storage and sale of food.	11	10	1	31.10.0.
Nuisances - Public Health By-laws.	9	9	_	14. 0. 0.
Nuisances - Public Health	4	4	-	1. 0. 0.
House Drainage.	5	4	1	8.10. 0.
Sale etc. of contaminated unwholesome etc. Food	4	3	1	5. 0. 0.
Adulteration of Food - other than milk.	1	1	-	
Illegal Housing.	1	1	-	
Prevention of Malaria & Eradication of Mosquit- oes.	6	6	-	9.10. 0.
Collection & Storage of Refuse - Provision of receptacles.	1	1	-	
Ice Cream under standard	10	10	-	15. 0. 0.
Obstruction of Sanitary Inspector.	1	1	-	1.10. 0.
	68	64	4	£119. 0. 0.

Pines.		
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		moves - Public Health

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14. OTHER MATTERS OF HEALTH AND SANITATION. Sanitary Supervision.

During the year 1726 complaints were received and investigated - these included 237 complaints regarding the prevalence of rats and 360 intimations from householders troubled by mosquitoes.

3,303 verbal and 2,951 written notices were issued.

Sanitary reports on applications for trading license numbered 4,956.

Inspection in connection with the fumigation of premises by Cyanide totalled 700, and

Advisory reports to other Municipal Departments numbered 1708.

The following tables show the statistical records of work done by the District Health Inspectors.

Inspections of :

Hotels, boarding & lodging houses.	2,174.
Restaurants, eating houses & tea Rooms	3,098
Bakeries	181.
Dairies - within the Borough outwith the Borough	33. 293.
Laundries	877.
Markets	715.
Offensive Trades	239.
General	21,510.
Night Inspections.	195.

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OTHER MATTERS OF HEALTH AND SENTENTION

Sanitary Supervision.

During the year 1726 complaints were received and investigated - these included 237 complaints regarding the prevalence of rate, and him intimations from

S.208 verbal and s. PET will then hoteles which

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Santany reference on applications of trading

Moense municipal A. 956.

Inspection in completed with the Printgation of

eller and the contract of the contract of

premises by Cyaride totalled 700, and

Advisory reports to other Municipal Departments

numbered 1708

The following tables show the statistical disord

To anoltagganI

Hotels, boarding & Lodging Source S,098
Restaurants, sating Houses & tes Hoore S,098
Rakeries Within the Berough 28.
Catries - within the Berough 282.
Baundries - within the Borough 297.

consive Trades

ienoral 21,510

Might Inspections.

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The following list indicates the nature of nuisance abated and improvements effected at the instance of the inspectional staff:-

ADDITION OF THE PARTY OF THE PA
Premises demolished/reconstructed
New Brick Native Quarters erected
Unauthorised or dilapidated structures : demolished 94.
Conord / Cundry project of district des : demolished94.
General/Sundry repairs and improvements to premises99.
European water closets (buildings) provided30.
Native water closets (buildings) provided
Screening of Sanitary conveniences (Native)
New brick bathro ms erected8.
washi ooms erected
" Change room erected
" Kitchens erected
Provision of proper cooking facilities, in refreshment
rooms etc 18
Yards, etc. paved and/or drained
Vand perior paved and/or drained
Yard paving - repaired or made good
Roofs: renewed or repaired
Roof gutters and downpipes: r-newed/repaired297.
Defective walls repaired
" floors: renewed or repaired
Wood Tioors. renewed or repaired
Wood " : replaced by concrete 25.
Wash-up sinks provided
walls tiled (at rear of sinks etc) 49.
Water closets - defective fittings.renewed/repaired
provided518.
provided
Defective water service : renewed/repaired/provided150.
Defective drains, fittings, etc:renewed/repaired/pro-
Overcrowding: discontinued 59.
Overcrowding: discontinued
Lighting and ventilation provided
Tilegal housing of metions of discontinued
Illegal housing of natives : discontinued 65.
Use of unauthorised structures as sleeping places:
discontinued313.
Measures to protect food proparation, delivery, etc 123.
Premises -(Internal conditions) cleaned and renovated552.
Premises - (Yards, water closets, gulleys, etc.)
riemises - (lards, water closets, gulleys, etc.)
cleansed1137.
Refuse/Manure refuse receptacles : provided or repair-
ed819.
Vacant land cleared of overgrowth, etc241.
Measures to safeguard against rodent infestation or
harbourage337.
Measures to prevent mosquito development
Fly nuisance: abated
Bug infestation removed (Premises) 93.
Keeping of poultry in contravention of Borough Bye-
Discontinued
laws:(Discontinued)456.
Keeping of animals so as to be a nuisance: Discontin-
ued 21.
Deposits of refuse in unauthorised places : removed,
etc187.
Smoke huisance - abated
Dischange of wester into street a discentifyed 170
Discharge of waste water into street : discontinued138

The following list indicates the mature of the bated of the instance of the mapectlonal staff :-

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Sf. ..... closets (bulldings) provided ......
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OFFENSIVE TRADES.

The following list shows the number of offensive trades being carried on within the Borough, viz:

Abattoirs 3.
Breweries 2.
Hides, Skins & Wool 26.
FertiliseR Works 5.
Soap Makers 3.
Wattle Bark Grinding2.
Wool Washeries 2.
Refuse Destruction 1.
Sewerage Outfall 1.

DEAD ANIMALS REMOVED OR DISPOSED OF BY THE DEPARTMENT.

78.
0
8.
16.
6.
16.
1.

OFFENSIVE TRADES.

The following list shows the number of offensive

Abattoirs 5.

Breweries 2.

Bides, Skins & Wool 26.

Fertifica Works 5.

Boar Wakers 7.

Wool Washers 8.

Wool Washerles 8.

Refuse Destroction 1.

Sewerage Octfail 1.

DESCRIPTION AND ASSESSED OF DESCRIPTION OF BY THE PROPERTY.

14. continued.

INTERMENTS AT CEMETERY.

	Stellawood.	General.	Umgeni.
European	681	185	15
Asiatic	318	107	-
Natives, etc	1190	9	-

Total Interments 2,505.

SALE OF GRAVE SITES.

The number of grave sites sold at Stellawood Cemetery was 446.

CREMATIONS.

The number of bodies disposed of at the Crematorium during the year was 39 -- Europeans 38, Asiatics 1.

BODIES RECEIVED AT THE MORTUARY.

Europeans	52.
Asiatics	25.
Coloureds	32.
Natives	10.
China.	_
16	20

INTERNEUTS AT CAMPARY.

European.....

European.....

Total Interments 2,505.

BETTE SYAGO TO STAR

The number of grave sites sold as Stellewood

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. YRAUTHON SHY, TO SHYLEDGA BRIGOS

Suropeans,....52

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15. STAFF :

PUBLIC HEALTH COMMITTEE 1931-32.

Councillor Mrs. E. A. Benson (Chairwoman).

H.K.LeMarchand.

H.H.Kemp

A. L. Clark.

M. Cornelius.

U. McCoccounts

" L. McCafferty.
" P. Osborn.
" J. Rainnie.

" G. Reyburn. " W.E.Smith.

PUBLIC HEALTH DEPARTMENT STAFF.

Administration and Office.

1 Medical Officer of Health Dr. G. H. Gunn, M.D. , ChB, D.P. H.

6 Clerks. 2 Juniors.

3 Typistes.

Infectious Diseases Officer....C.C.deLucey, Cert.R.S.I. & Victoria University, Manchester.

Inspectional.

1 Chief Sanitary Inspector.....R. Walker, Cert R.S.I. 1 Dairy Inspector.....A. Michie, Cert R.S.I. 8 District Health Inspectors.....R.S.I. Certificate.

Sick Leave Control.

Eradication of T.B. in Cattle.

Maternity & Child Welfare.

2 Midwives.

4 Health Visitors.
2 Typiste (Clerk)

Clinic Assistant.

Infectious Diseases Hospital.

1 Matron......Miss M.E.Ewels.

3 Sisters.

3 Staff Nurses.

15 Indians (1 Cook, 1 Sirdar, 11 Orderlies, 2 Maids).

Disinfecting Station.

1 Superintendent.

Assistant Disinfectors.
12 Indians (2 Dhobies, 1 Sirdar, 9 Assistants).

Infecticus Piscoses Crytost. C.C. Ceptucky Cert.R. S.I.C. sid.

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Anti-Mosquito Sanitation.

- Inspector -in charge......JM.McGreavey, Cert.R.S.I.
- 1 European Overseer.
- Patrolmen.
- 16 Indians.

Anti-Plague.

Conservancy.

- Indian Sirdar.
- Tinsmith.
- Labourers.

Cleansing Services.

- 1 Chief Overseer.
- 4 Assistant Overseers. 6 Sirdars 160 Rubbish Collection (Indian). 206 Street Cleaners (do).

Public Conveniences.

- 11 European Attendants.
- 9 Indian Attendants.

Barracks Management.

- 1 European Caretaker.
- 15 Indians.

Corporation Cemeteries.

2 Europeans (Stellawood and General Cemeteries). 16 Indians.

Chief Overseers

16. REMARKS & RECOMMENDATIONS :

1. Extension of Borough Boundaries.

In anticipation of the extension of the Borough boundaries due on August 1st 1932, every effort has been made to adapt existing staff and office facilities to the task of administering public health functions in the Greater Borough.

The Card Index System of Record keeping has now been applied to every phase of the Department's work.

This has necessitated an increase in the clerical staff, but should enable the somewhat tedious tas. of Record keeping to be dispatched with accuracy and expedition.

Further re-organisation of Sanitary Staff arrangements have been held over pending incorporation of the suburban areas. After incorporation has been effected, it will be found necessary to devote the time of two experienced Sanitary Inspectors to supervisory duties in connection with applications for trading licences and building plans and housing matters in general. The development of an Anti-Mosquito Sanitation Unit will, to a certain extent, relieve the District Sanitary Inspectors of responsibility for following up Mosquito, Rodent and Fly Nuisances. In order to effect those dispositions, it will be necessary to recast the sanitary districts of the present Borough into larger units.

2. Clinical Medical Services.

Provision has been made on the Estimates for the coming year for the appointment of a whole-time Clinical Medical Officer to undertake the duties of Sick Leave Control, Medical Attendance on Police & Fire Brigade Staffs and

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coming year for the appointment of a wholestime Clin

Medical Officer to sudortake the duties.of Hek leave Charte

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Injured-on-duty Cases, including temporary Relief Workers.

These duties have hitherto been carried on by the Assistant Medical Officer of Health, resulting in the benefit to the Council of a direct saving on Sick Leave costs and working efficiency amounting to between two and three thousand pounds per annum. Subsequent to incorporation, it will be necessary to devote the whole time of the Assistant Medical Officer of Health to executive public health duties.

3. Health Propaganda & Education.

The cause of health education and propaganda has been very considerably advanced during the year, mainly by reason of the outstanding success which attended Health Week held in September. In addition to the carrying out of a publicity and propaganda campaign in the press and otherwise, a novel Health Exhibition was held in the Town Hall from the 21st to the 26th September.

The Exhibition in the Town Hall was organised on the basis of harmonizing the spheres of Industry,

Public Health and Education. Stalls were taken up and appropriate displays made by a large number of industrial firms and Societies interested in health and allied matters as well as by the Works, Electricity, Water and Health Departments of the Corporation.

The Health Department's exhibits and demonstrations were specially illustrative of practical hygiene as applied to control of foodstuffs, mosquito prevention and Maternity & Child Welfare.

The Durban Schools contributed very effectively to the programme of health displays, demonstrations and to

tended out at agrafement . Ad Engli to resilito feetbekend eraco syste de le mo grives Joseph a to Lionredent pounds per enture. Entrement to incorporation, it will · Bastub

The Derban Schools contributed very effectively to the programms of health displays, demonstrations and to

the entertainment of the public generally. The Exhibition was splendidly attended, the hall being crowded on the last two evenings. The impression was gained, as a result of the Exhibition, that the "sanitary conscience" of the community had been definitely stimulated.

Provision has been made on the current year's Estimates, for the appointment of a special Health Lecturer and the equipment of a health section in the Borough Museum. It is confidently expected that, in the course of the next year, a systematic course of Health Instruction will have been organised for the senior Durban School-pupils. In developing this course of instruction, stress will be laid, to begin with, on the phases of domestic hygiene associated with Mosquito Prevention, Dietetics and Child Welfare.

During the year, a series of Health Films substandard size was prepared by the Department. The subjects dealt with are as follows:-

Water Supply,
Milk Supply,
Anti-Mosquito Sanitation,
Health Culture,
Snake Bite Treatment,
Maternity & Child Welfare.

Wherever suitable, those films will be utilized to supplement the courses of instruction in the various subjects of the Health instruction curriculum.

The importance of public instruction in health matters is to be specially emphasized in a town such as Durban, where many actual and potential sources of ill-health, occurring within the domestic sphere, are accentuated by and reason of the sub-tropical climate/other special considerations relating to soil and situation which obtain on the Natal

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Coast. That the Council has seen fit to undertake such promising pioneer work in the educational field of public Hygiene, is a matter of great encouragement for the staff, who are in the best position to appreciate the wastage of human efficiency and economy resulting from public ignorance and apathy in regard to the canons of domestic and communal hygiene.

My grateful thanks are due to Councillors for their heartening support of my endeavours to prosecute a strong policy of progressive hygiene and to the staff of the Department for their loyal attachment to the best traditions of public service. promising planear users in the soughtfonel field of public from sing planear users in the soughtfonel first for the star who are in the best position to appreciate the wasters of home efficiency and sounces resulting from public ignored apathy in regard to the canons of domestic and committee the form

their heartening support of my endeavours to presents a their of the staff of a progressive higher and to the staff of the Department for their loyal attachment to the best traditions of modific and attachment to the best

REPORT "B".

HOUSING :

1. European.

Owing to the continued economic depression, the number and value of new constructions, including dwellings, have markedly declined as compared with previous years. During the year 286 new dwellings and flats were erected as compared with 473 in the previous year.

During the year, a special survey was carried out for the purpose of ascertaining the housing conditions of the most depressed classes of all races. The survey was largely limited to the class of housing in which the premises can be described as having been

(a) erected in contravention of the Building Bye-laws or (b) erected for the purpose of housing Native servants or (c) erected for purposes other than that of human habitation - and all of which are now being occupied as dwellings.

Most of the premises are of inferior wood and iron construction, situated in the back-yards of ordinary dwelling houses. In the vast majority of cases, light and ventilation are inadequate, while sanitary accommodation and domestic equipment are lacking in one or more essentials.

The average family numbers 3.3 persons, and 80% of the total number of families are housed in one room. Overcrowding, however, is as bad and often worse, in the main dwellings on the respective lots, which are

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and flats were erroted as compared with ers in the

Atthree as years a special survey was curried out for the purpose of secretaring the housing conditions of the mark of the secretary limited to the class of bousing harm in mand the present to the class of bousing hear mand the present of the housing hear secretary and the purpose of the housing hative of (c) or secretary for purposes other than that of that course the purpose other than that of the purpose other than that occup

the book related to she seakes and to tack wood and you construction, situated in the back-yeards of cases, inclination welling houses. In the wast majority of cases, light and tentilation are insdequate, while santtery accommodation and domestic equipment are lacking in one or sore

one the main dwellings on the respective lots, which are

not reckoned in this particular survey.

the analysis of average rentals reveals the economically depressed state of this section of the community. Nineteen European families occupy Native Quarters, and in general, it may be taken that the families concerned, all races, represent the lowest economic grade in the community.

There is no alternative accommodation for these people, nor any prospect of such unless the principle is accepted that the difference between economic rentals and the amount they are able to pay be, in some manner, defrayed by the Local Authority.

Communal housing accommodation, let at subeconomic rentals, owned and supervised by the local authority, appears to offer the only solution for this particular aspect of the housing problem.

The information obtained by the survey is set forth hereunder:

Premises. 207
Rooms - Total occupied 716
Families 505
Persons E. 315, C. 161, N. 239, A. 980 1695
Occupants. Adults 1086. Children 609 1695

Families occupying: $\frac{1 \text{ Room}}{405} - \frac{2 \text{ Room}}{77} - \frac{3 \text{ Room}}{20} - \text{dwellings}$.

Average number of) $\frac{1 \text{ Room}}{3.1} - \frac{2 \text{ Room}}{1.7} - \frac{3 \text{ Room}}{1.9}$ - dwellings.

European Families occupying Native Quarters. 19
Back. Side.
Situation of Rooms.

Boundary
139
173

Construction. Good 50. Fair 114. Poor 254. Light and Ventilation Good 55. Poor 365.

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add to holdes state of this section of the

economic grade in the community.
There is no alternative accommodation for

the some minner, defrayed by the Local Anthority

Beet Sourdary Sourdary Sourdary Store Store Sourdary Store Store Sourdary Store S

Construction. Good SC. Fair 114, Foor 286,

Not provided with - (out of total 716)

Kitchen. Sink. Bath. W.C. Food Storage. & Drainage.

Number not complying with Bye-laws 298.

Average Rental 1 Room. - 2 Room - 3 Room - dwellings.

2. Non-European :

(1) Coloured.

The conditions of housing as regards this class have not improved during the year.

(2) Natives.

It has been decided to locate a proposed new Native village at Clairwood, in the South Coast Junction area. The first part of the scheme provides for the erection of 100 detached dwellings. Full details of cost and conditions of rental are not yet available.

(3) Asiatic.

No further progress has been made in connection with the provision of new housing facilities for Asiatics.

Natives & Indians-Private Barracks or Compounds:

There are 126 Native & Indian privately owned Barracks or Compounds, in the Borough, in which ten or more persons are housed. The population thus housed numbers 4813 Natives and 168 Indians. Those premises are all connected to the Municipal Water Supply, but five are outwith the sewered area.

The structural conditions of those Barracks may be described as follows :-

Good 81. Fair 35. Poor 10. Total 126.

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Mumber not complying very lyenged 200.

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S. Mon-European

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