

**Report of the Medical Officer of Health on the public health and sanitary circumstances of Johannesburg.**

**Contributors**

Johannesburg (South Africa)

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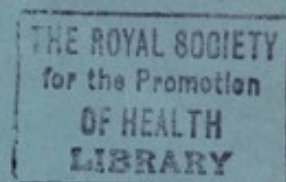
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M.O.H. REPORT  
1965



CITY OF JOHANNESBURG



REPORT  
ON THE HEALTH OF  
JOHANNESBURG  
IN  
1965

A. H. SMITH  
M.B., Ch.B., D.P.H., D.T.M. and Hy., F.R.S.H.

MEDICAL OFFICER OF HEALTH

RCB/19.12



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CITY OF JOHANNESBURG

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1965

ON THE PUBLIC HEALTH

AND SANITARY CIRCUMSTANCES

OF JOHANNESBURG

IN TERMS OF SECTIONS 6 AND 13 OF THE

PUBLIC HEALTH ACT, 1919, AS AMENDED

AND

ON OVERCROWDING AND BAD AND INSUFFICIENT HOUSING

IN JOHANNESBURG

IN TERMS OF SECTION 131(2) OF THE

PUBLIC HEALTH ACT, 1919, AS AMENDED

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REPORT OF THE MEDICAL OFFICER OF HEALTH

CALENDAR YEAR 1965

Mr. Mayor, Gentlemen,

I have the honour to present my report for the calendar year 1965 on the work of the City Health Department, the vital and morbidity statistics of the city and the main features in regard to the health and sanitary circumstances of the community.

My report on overcrowding and bad or insufficient housing forms part of this report.

The following table contrasts the death rates (per 1,000 of the population) and the infantile mortality rates (deaths under 1 year per 1,000 registered live births) for this and the preceding year:-

	Death Rates		Infantile Mortality Rates	
	1964	1965	1964	1965
European	10.57	9.07	35.78	22.36
Coloured	9.52	12.21	46.47	57.48
Asiatic	3.94	6.80	46.38	31.56
Bantu	10.57	11.85	86.09	78.83
All Races	10.33	10.66	63.09	56.25

Legislation requires that the birth rate be calculated on the number of registered births and not notified births. Notification of births is far more representative and is submitted by the medical attendant or institution caring for the mother. Registration of the birth is the responsibility of the parent and is far less effectively implemented. The infantile mortality rate is therefore much lower than it appears, because the actual number of births notified is higher than the number of births registered. If the rate had been calculated on the basis of notified births, the rate for Bantu in 1965 would have been 40.28 instead of 78.83. However, one big cause for concern is the increasing rates for the Coloured population, a clear reflection of the delays in providing adequate housing and services for this group.

The/...



The following table shows the birth rates for the six years 1960 to 1965:-

	European	Coloured	Asiatic	Bantu	All Races
1960	23.92	39.05	29.52	32.07	28.20
1961	24.01	39.91	29.96	33.46	29.96
1962	23.54	41.12	26.70	39.98	33.11
1963	24.41	41.18	25.34	35.22	30.96
1964	24.36	40.15	20.04	25.78	25.83
1965	23.04	45.45	30.31	27.88	26.86

Apart from the anomaly of registered as opposed to notified births among Bantu which I have no doubt has produced the artificial fall in these rates over the last two years, they have all remained constant and it will be seen that the Coloured and Bantu far exceed the other two groups.

Because of this and their poorer socio-economic circumstances, these two groups will need greater assistance from this Department in the family planning field in future years.

The total incidence of notifiable diseases again fell and special mention must be made of the reduction in diphtheria from 39 to 27 cases (a rate fall from 4 to 3 per 100,000 population) and in pulmonary tuberculosis from 4,094 to 3,027 (a rate fall from 418 to 312 per 100,000 population). This fall of 24% in tuberculosis notifications is remarkable and the first that has occurred in many years. The Bantu notifications fell from 3,703 to 2,641, i.e. a 29% reduction and was entirely responsible for the overall fall. No relaxation in case finding occurred and one is forced hopefully to the conclusion that the massive B.C.G. immunisation campaigns of 1963 and 1964 are beginning to show dividends. This very heartening trend will be watched closely. There was only one case of poliomyelitis during the year. However, it should be noted that cases of typhoid fever increased from 35 to 48 and imported cases of malaria from 19 to 27 to remind us that our task is by no means completed in this field of preventive medicine.

An unusual feature was the notification of 18 cases of trachoma among Europeans and the Department is now investigating this situation of the notification of this serious and blinding eye condition on the strength of a positive isolation of the T.R.I.C. agent in an otherwise apparently healthy eye.

The routine medical services in the Bantu areas continue under difficulties, with the Provincial Administration making little progress in their agreed programme for the assumption of executive responsibility for the curative and midwifery service

The/...



The control of general sanitation and food supplies was maintained at the usual high level despite unprecedented staff shortages reflecting great credit on the health inspectorate staff of the Department.

Smog control made steady progress but still lacks adequate legislative machinery and all other services of the Department maintained their usual high standard of efficiency.

Several new housing schemes are in the course of construction but because of increased building costs and other factors, the Council is finding it increasingly difficult to build units of a reasonable standard to accommodate the income groups catered for.

During the year the Department lost, through retirement, three stalwarts who had given the major portions of their working lives to the Health Department and whose contribution to the health of the city was a major one. I refer to Dr. B. Mundel (Deputy Medical Officer of Health) and Messrs. E.M. Coetzee and C.J. Morshead - they will all be sorely missed. In addition Dr. M.L. Freedman resigned during the year and the loss of his experience and skill will be missed.

I wish to thank all members of my staff for their loyalty and industry; the Town Clerk and all Heads of Departments and members of their staffs and the Staff Board for willing co-operation at all times.

I thank the Press and public for their co-operation in maintaining and improving the health standards of this great city.

I also desire to express my thanks to His Worship the Mayor and to the Chairman and members of the Management and Health and Amenities Committees who have extended to me every courtesy and assistance.

ALEXANDER H. SMITH,  
M.B., Ch.B., D.P.H., D.T.M. & H., F.R.S.H.

Medical Officer of Health  
Hon. Professor, Urban Health Administration,  
University of the Witwatersrand.

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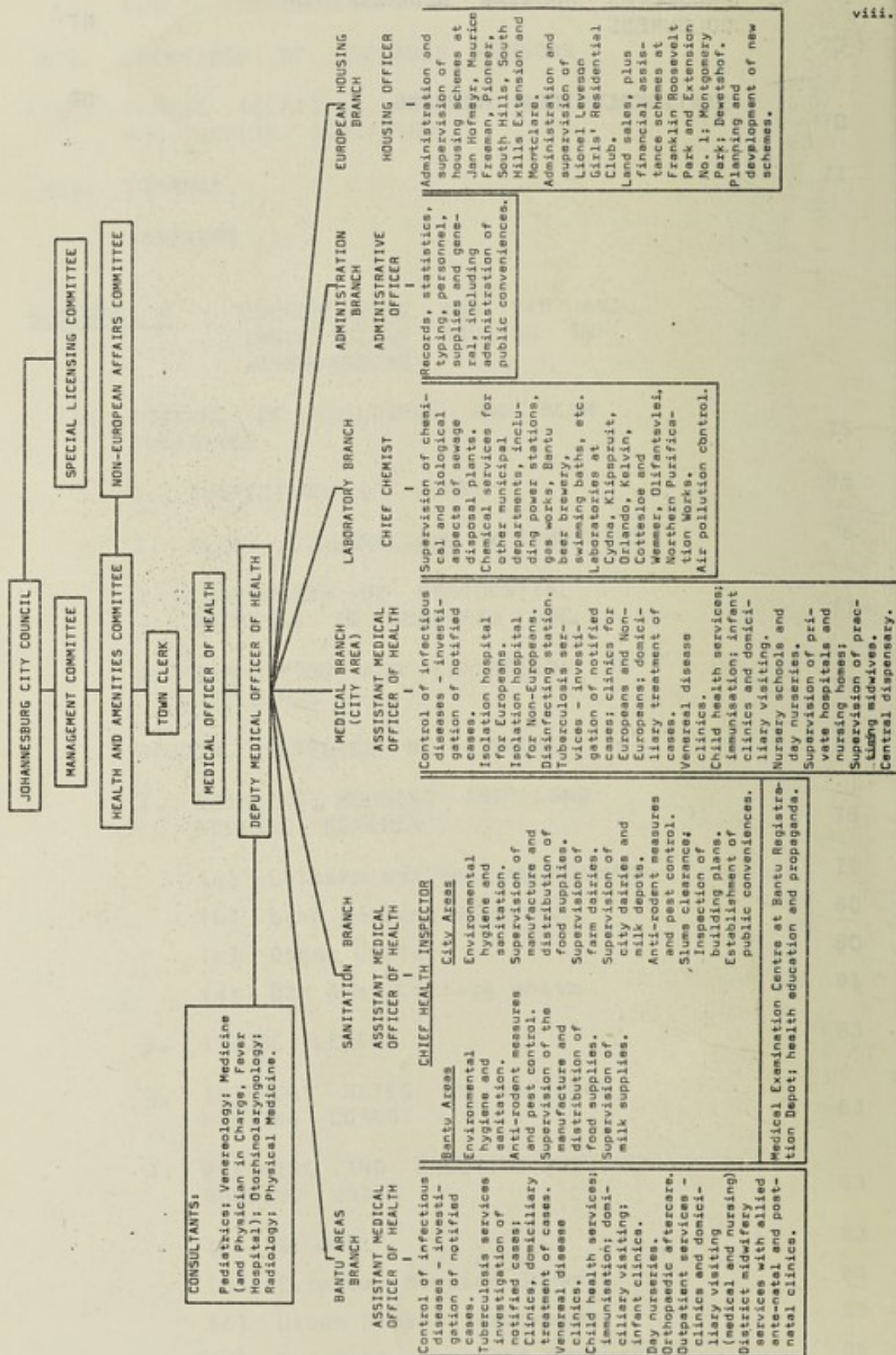
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CITY OF JOHANNESBURG  
HEALTH AND AMENITIES COMMITTEE

To 5 March 1965

COUNCILLORS:- MR. A.B. WIDMAN, M.P.C. - CHAIRMAN  
DR. V.V. BOY, M.P.C.  
MR. A.P.J. DE KLERK, J.P.  
  
MR. I. MYERS  
DR. J.S. OTTO  
MR. W.A. SAMMONS  
MR. M. SKLAAR  
MR. H.M. VAN RENSBURG  
MR. M.J. POWELL  
MR. A. MORRIS

From 5 March 1965

MR. A.B. WIDMAN, M.P.C. - CHAIRMAN  
DR. V.V. BOY, M.P.C.  
MR. A.P.J. DE KLERK, J.P.  
(MR. J.H. VAN BLERK - FROM JUNE 1965)  
MR. I. MYERS  
DR. J.S. OTTO  
MR. W.A. SAMMONS  
MR. M. SKLAAR  
MR. H.M. VAN RENSBURG  
MR. M.J. POWELL  
MR. A. MORRIS

ADMINISTRATIVE HEADS AND CONSULTANTS:-

MEDICAL OFFICER OF HEALTH	1	A.H. SMITH M.B., Ch.B., D.P.H., D.T.M. & Hy., F.R.S.H.
DEPUTY MEDICAL OFFICER OF HEALTH	1	B. MUNDEL M.B., Ch.B., D.P.H., D.T.M. & Hy., F.R.S.H. (Retired 30.6.1965)
	1	M.L. FREEDMAN O.B.E., M.B., Ch.B., D.P.H., D.T.M. & Hy., F.R.S.H. (From 1.9.1965)
ASSISTANT MEDICAL OFFICER OF HEALTH	1	M.L. FREEDMAN O.B.E., M.B., Ch.B., D.P.H., D.T.M. & Hy., F.R.S.H. (To 31.8.1965)
ASSISTANT MEDICAL OFFICER OF HEALTH	1	I.W.F. SPENCER M.B., B.Ch., D.P.H., D.T.M. & Hy.
ASSISTANT MEDICAL OFFICER OF HEALTH	1	H.S. HURWITZ M.B., B.Ch., D.P.H.
ADMINISTRATIVE OFFICER	1	N.J. SALMON
CHIEF CLERK	1	C.J. MORSHEAD (Retired 6.1.1965)
ADMINISTRATIVE ASSISTANT	1	D.L. TURNER A.C.I.S., A.I.A.C. (From 6.1.1965)

CONSULTANTS:-

Venereology	1	B. SIEFF M.B., B.Ch.
Medicine	1	*M. NALK M.R.C.S. (Eng.), L.R.C.P. (London), M.R.C.P. (London)
Otorhinolaryngology	1	D.R. HAYNES M.B., B.Ch., D.L.O., R.C.P. & S. (Eng.)
Radiology	1	H.I. OSLER M.B., Ch.B., D.M.R.E.
Radiology	1	M. HURWITZ M.B., Ch.B., D.M.R.D., R.C.P. & S. (Eng.), M.D.
Physical Medicine	1	C. ADLER M.B., B.Ch., D. Phys. Med.

\* and Physician in Charge, Fever Hospital

# HEADS OF BRANCHES AND SECTIONS:-

CHIEF TUBERCULOSIS MEDICAL OFFICER (URBAN AREAS)	1	M.H. GOLDBERG M.B., Ch.B.
CHIEF TUBERCULOSIS MEDICAL OFFICER (BANTU AREAS)	1	A.V. McPHAIL M.B., B.Ch.
CHIEF CHILD HEALTH MEDICAL OFFICER (URBAN AREAS)	1	O.I.B. KREHER M.B., Ch.B.
CHIEF CHILD HEALTH MEDICAL OFFICER (BANTU AREAS)	1	M.B. RICHTER M.B., B.Ch.
MEDICAL SUPERINTENDENT, WATERVAL HOSPITAL	1	G.B. MILLER M.B., B.Ch.
MATRON, WATERVAL HOSPITAL	1	F. MAJOLA Reg. Nurse and Midwife (From 22.1.1965)
SENIOR MEDICAL OFFICERS	1	E.N. ELLIS M.B., Ch.B.
	1	L. EISENBERG M.B., Ch.B.
	1	B. RICHARD M.B., Ch.B., D.P.M.
	1	W.G. HEARN M.B., Ch.B.
	1	M. MER M.B., B.Ch.
	1	M.S. BROWN M.B., Ch.B.
SENIOR DENTAL OFFICER (ORLANDO)	1	J.H.C. LAING L.D.S., D.P.D.
CHIEF PHARMACIST	1	S. GRINKER Dip. Pharm.
CHIEF CHEMIST	1	D.W. OSBORN M.Sc. (Eng.), M.(S.A.) Chem. Inst., M. Inst. S.P.
AIR POLLUTION CONTROL OFFICER	1	L. TUCKER B.Sc. (Eng.Chem.), M.(S.A.) Chem. Inst., A.M.I.S.P.
HOUSING OFFICER	1	W.J. DUNCAN
ASSISTANT HOUSING OFFICER	1	W.M. MCCONAGHY M. Inst. P.M., R.S.H. Certs. for H.I. and M. & D.F.
HOUSING SUPERVISOR	1	J.M.E. BUTLER Cert. of Competency in Housing Management, R.S.H. Cert. for H.I., Primary Teacher's Higher Cert.
CHIEF HEALTH INSPECTOR	1	A.H. SPARGO A.M.I.P.H.E., M.R.S.H., R.S.H. Certs. for H.I. and M. & D.F.
DIVISIONAL HEALTH INSPECTORS	1	J. LEDGETT R.S.H. Certs. for H.I. and M. & D.F.
	1	A.H. MAXWELL A.M.I.P.H.E., R.S.H. Certs. for H.I. and M. & D.F. and Trop. Hy.
	1	A.C. WALLACE R.S.H. Certs. for H.I. and M. & D.F.
	1	C.M. HAGLEY R.S.H. Certs. for H.I. and M. & D.F.

HEADS OF BRANCHES AND SECTIONS:- (CONTINUED)

CHIEF HEALTH VISITOR	1	M. BERGH R.S.H. Cert. for H.V., Reg. Nurse and Midwife
SENIOR HEALTH VISITORS	1	R.C.C. SANGERHAUS R.S.H. Cert. for H.V., Reg. Nurse and Midwife
	1	C.K. HAINS R.S.H. Cert. for H.V., Reg. Nurse and Midwife, Mothercraft Cert., Dip. in Nursing Admin. (P.H.) R.C.N. London
	1	M.H. RALPH R.S.H. Cert. for H.V., Reg. Nurse and Midwife, Mothercraft Cert.
	1	J.M. MONNIK R.S.H. Cert. for H.V., Reg. Nurse and Midwife, Dip. in Nursing (To 30.6.1965)
	1	Y. BARNES R.S.H. Cert. for H.V. and School Nurse, Reg. Nurse and Midwife, Dip. in Health Education (London Univ.) (From 1.10.1965)
INSPECTRESS OF PRE-SCHOOL INSTITUTIONS (URBAN AREAS)	1	G. MURRAY Net. Teacher's Cert. in Nursery Education, Dip. in Social Studies
INSPECTRESS OF PRE-SCHOOL INSTITUTIONS (BANTU AREAS)	1	D.L. PARKINSON Net. Teacher's Cert. in Nursery Education
SENIOR SUPERVISOR, NURSERY SCHOOLS (ACTING)	1	A.M. VILJOEN Nursery School Dip.
TRANSPORT AND DISINFECTING SUPERINTENDENT	1	J.H. CUTTING Qualified Fitter

The full staff establishment is detailed  
on Page xii.



## STAFF ESTABLISHMENT AS AT 31 DECEMBER 1965

HEAD OFFICE ADMINISTRATION:-

- 1 Medical Officer of Health
- 1 Deputy Medical Officer of Health
- 3 Assistant Medical Officers of Health
- 1 Administrative Officer
- 1 Administrative Assistant
- 1 Refunds Officer
- 15 Clerks
- 10 Woman Assistants
- 10 Shorthand Typists
- 2 Telephonists
- 11 Unskilled Labourers (Bantu)

INFECTIOUS, COMMUNICABLE AND PREVENTABLE DISEASES:-

- 1 Senior Infectious Diseases Inspector
- 1 Woman Assistant
- 2 Health Inspectors (Bantu)

DISINFECTIONS AND REMOVALS:-

- 1 Transport and Disinfecting Superintendent
- 1 Asst. Transport and Disinfecting Superintendent
- 4 Disinfecting Officers
- 1 Recorder
- 1 Chargehand Mechanic
- 3 Mechanics
- 1 Mobile Messenger (Bantu)
- 15 Unskilled Labourers (Bantu)

FEVER HOSPITAL:-

- 1 Physician-in-Charge (Part-time)
- 1 Ear, Nose and Throat Surgeon (Part-time)

WATERVAL HOSPITAL:-

- 1 Medical Superintendent
- 3 Medical Officers
- 1 Radiologist (Part-time)
- 1 Matron
- 2 Nursing Sisters
- 1 Food Supervisor
- 2 Radiographers
- 1 Specialist in Physical Medicine (Part-time)
- 1 Orthopaedic Surgeon (Part-time)
- 1 Physiotherapist (Part-time)
- 1 Occupational Therapist
- 1 Clerk-in-Charge
- 1 Woman Assistant
- 1 Hygiene Officer/Handyman
- 1 Night Superintendent (Female) (Bantu)
- 9 Sisters (Bantu)
- 24 Nurses (Bantu)
- 50 Nursing Assistants (Uncertificated) (Bantu)
- 4 Orderlies (Bantu)
- 4 Clerks (Bantu)
- 1 Darkroom Assistant (Female) (Bantu)
- 1 Male Instructor (Bantu)
- 1 Female Instructor (Bantu)
- 61 Unskilled Labourers (Bantu)

TUBERCULOSIS SERVICES:-

- 1 Chief Tuberculosis Medical Officer (U.A.)
- 1 Chief Tuberculosis Medical Officer (B.A.)
- 4 Medical Officers
- 1 Radiologist (Part-time)
- 1 Senior Health Visitor
- 18 Health Visitors (A)
- 8 Welfare Officers (A) and (B)
- 4 Nursing Sisters
- 2 Radiographers
- 1 Technical Assistant
- 1 Clerk

TUBERCULOSIS SERVICES:- (Contd.)

- 3 Woman Assistants
- 57 Nurses (Bantu) (A)
- 17 Clerks (Bantu) (A)
- 14 Clinic Assistants (Female) (Bantu) (A)
- 3 Transport Drivers (Bantu)
- 1 Radiographer (Bantu)
- 3 Darkroom Assistants (Bantu) (A)
- 9 Welfare Assistants (Bantu) (B)
- 19 Labourers (Bantu) (A)

VENEREAL DISEASES SERVICES:-

- 1 Consultant Venereologist (Part-time)
- 2 Medical Officers (Part-time)
- 2 Clinic Orderlies (Part-time)
- 1 Orderly (Clinic) (Bantu)

MATERNAL AND CHILD HEALTH SERVICES:-

- 1 Chief Child Health Medical Officer (U.A.)
- 1 Chief Child Health Medical Officer (B.A.)
- 14 Child Health Medical Officers
- 1 Chief Health Visitor
- 1 Senior Health Visitor (Health Education)
- 42 Health Visitors (A)
- 4 Nursing Sisters
- 5 Clinic Attendants
- 1 Mobile Clinic Attendant
- 6 Woman Assistants
- 27 Health Visitors (Bantu)
- 6 Clerks (Bantu)
- 2 Clinic Assistants (Bantu) (A)
- 3 Labourers (Bantu)

SUPERVISION OF NURSING HOMES AND MIDWIVES:-

- 1 Senior Health Visitor
- 3 Health Visitors
- 1 Woman Assistant

DISPENSARY:-

- 1 Chief Pharmacist
- 2 Pharmacists
- 11 Unskilled Labourers (Bantu)

PUBLIC CONVENIENCES:-

- 2 Supervisors
- 49 Attendants
- 109 Unskilled Labourers (Bantu)

NURSERY SCHOOLS AND DAY NURSERIES:-

- 1 Medical Officer
- 1 Inspectress of Pre-School Institutions (U.A.)
- 1 Inspectress of Pre-School Institutions (B.A.)
- 1 Senior Supervisor
- 6 Supervisors
- 15 Assistant Supervisors
- 6 Nursery Assistants
- 1 Driver/Handyman
- 1 Woman Assistant
- 2 Senior Assistant Supervisors (Bantu)
- 11 Assistant Supervisors (Bantu)
- 7 Cooks (Bantu)
- 13 Unskilled Labourers (Bantu)

MEDICAL SERVICES IN BANTU TOWNSHIPS:-

- 5 Senior Medical Officers
- 18 Medical Officers
- 1 Medical Officer (Part-time)
- 1 Senior Dental Officer

5 Dental/...

MEDICAL SERVICES IN BANTU TOWNSHIPS:- (Contd.)

5 Dental Officers  
1 Senior Health Visitor  
9 Health Visitors  
1 Orthopaedic After-Care Sister  
1 Clerk  
1 Woman Assistant  
1 Health Visitor (Bantu)  
4 Senior Nurses (Bantu)  
2 Senior Midwives (Bantu)  
73 Nurses (Bantu)  
110 Midwives (Bantu)  
29 Clerks (Bantu)  
31 Clinic Assistants (Female) (Bantu)  
8 Dentists' Assistants (Bantu)  
4 Clinic Assistants (Part-time) (Bantu)  
31 Jeep Drivers (Bantu)  
50 Unskilled Labourers

SANITATION DIVISION:-

1 Chief Health Inspector  
4 Divisional Health Inspectors  
13 Senior Health Inspectors  
60 District Health Inspectors  
6 Learner Health Inspectors  
2 Veterinarians (C)  
3 Recorders  
2 Pest Control Inspectors  
21 Pest Control Overseers  
2 Supervising Health Inspectors (Bantu)  
1 Health Inspector (Coloured)  
14 Health Inspectors (Bantu)  
58 Unskilled Labourers (Bantu)

LABORATORY DIVISION:-

1 Chief Chemist  
1 Assistant Chief Chemist  
6 Principal Chemists  
1 Air Pollution Control Officer  
10 Chemists  
6 Inspectors (Air Pollution Control)  
1 Industrial Effluents Inspector

LABORATORY DIVISION:- (Contd.)

1 Industrial Effluents Sampler  
1 Bacteriologist  
1 Laboratory Technician  
11 Chemical Assistants  
1 Technical Assistant (Laboratory Services)  
1 Clerk  
1 Recorder  
1 Typist  
3 Chemical Engineering Students  
13 Unskilled Labourers (Bantu)

MEDICAL EXAMINATION CENTRE, BANTU  
REGISTRATION DEPT:-

1 Senior Medical Officer  
3 Medical Officers (1 Non-European and 2 either  
European or Non-European)  
1 Radiologist (Part-time)  
1 Technical Assistant (X-ray)  
1 Medical Orderly  
1 Radiographer (Bantu)  
4 Orderlies (Medical) (Bantu)  
2 Clinic Orderlies (Bantu)  
4 Orderlies (X-ray) (Bantu)  
2 Nurses (Bantu)  
2 Clinic Assistants (Bantu)  
1 Darkroom Assistant (Bantu)  
1 Messenger (Bantu)

EUROPEAN HOUSING:-

1 Housing Officer  
2 Assistant Housing Officers  
1 Maintenance Supervisor  
1 Housing Supervisor  
1 Senior Assistant Housing Supervisor  
2 Housing Assistants  
9 Assistant Housing Supervisors  
2 Women Assistants  
7 Caretaker/Housing Schemes  
1 Matron, Girls' Club  
1 Assistant Matron, Girls' Club  
53 Unskilled Labourers (Bantu)

(A) Appointments to the following 21 posts which were created for preventive Health Services for the Coloured Community, will only be made when the Riverlea Clinic is completed.

EUROPEANS:-

4 Health Visitors  
2 Welfare Officers

NON-EUROPEANS:-

6 Nurses  
2 Clerks  
4 Clinic Assistants  
1 Darkroom Assistant  
2 Labourers

In the meantime 2 Coloured Health Visitors are employed and held against 2 of the European Health Visitor's posts.

(B) Five Welfare Officers and nine Bantu Welfare Assistants seconded to City Health Department from Non-European Affairs Department for full-time duties in Bantu Areas.

(C) Seconded full-time from Abattoir and Livestock Market Department.

SUMMARY OF STAFF ACTUALLY EMPLOYED AS AT 31 DECEMBER 1965

EUROPEANS:-

Salaried Staff	414
Daily Paid	58
	<hr/>
	472
	<hr/>

NON-EUROPEANS:-

Salaried Staff	563
Daily Paid	391
	<hr/>
	954
	<hr/>

Section A/...





THE PUBLIC HEALTH AND  
SANITARY CIRCUMSTANCES OF JOHANNESBURG

1. NATURAL CONDITIONS

Physical Geography - Johannesburg is situated in latitude 26 degrees 11 minutes south and longitude 28 degrees 4 minutes east, at a mean altitude of 5,850 feet above sea level and approximately 300 miles from the sea coast on the Indian Ocean. It is placed almost at the northern limit of the highveld area of the Transvaal Province and almost in the centre of the Witwatersrand Goldfields which extend roughly eastwards and westwards over a total distance of approximately 88 miles.

The city is on the crest of the Witwatersrand ridge which is one of the main watersheds of the country, all streams in the northern suburbs being tributaries of the Limpopo River, while those in the south make their way to the Orange River. The highest four points, all of approximately the same altitude (5,940 feet) are Observatory Hill, Aasvogelskop, a hill south west of the city and a hill south of Linmeyer. The last named is the highest by a few feet. The city centre is about 5,700 feet above sea level.

The meteorological and topographical features favour the dispersal of smog. Inversion is encountered but does not cause concern. On some days during the winter months smog tends to persist in the valleys but almost invariably disperses by 10 a.m.

The area of the city and its suburbs is 94.46 square miles which includes the Rand Airport. The extreme length of the city and suburbs is 11.7 miles and extreme width 11.4 miles. The Bantu townships on the south-western boundary comprising Pimville and Soweto cover an area of 24.98 square miles, Pimville being included in the municipal area and Soweto outside. A further 5.12 square miles owned and controlled by the Bantu Resettlement Board is part of the complex used for housing Bantu working in Johannesburg. The total area of the Bantu townships is therefore 30.10 square miles.

Other land owned by the Council outside its own boundaries and controlled in terms of Section 7 of the Local Government Ordinance (Transvaal) includes the sewage purification farms to the south, and the Northern Sewage Purification Works, Zuurbekom, Kelvin Power Station, Woodlands, Lombardy, Gillooly's Farm, Rietvlei East, Rietvlei West and several other farms with a total area of 51.49 square miles.

The climate of Johannesburg is essentially temperate, although the city is within 3 degrees of the Tropic of Capricorn. Generally the days are bright and warm and the nights cool. The humidity is low in winter and there is a marked diurnal variation in temperature. The average daily period of bright sunshine is 8.79 hours.

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The hottest months are usually from December to March. The coldest months are usually June and July with an average minimum temperature of  $2.05^{\circ}\text{C}$ .

The wind frequencies are shown diagrammatically overleaf and the monthly averages of rainfall, etc., are reflected in the pages that follow.

Wind/...



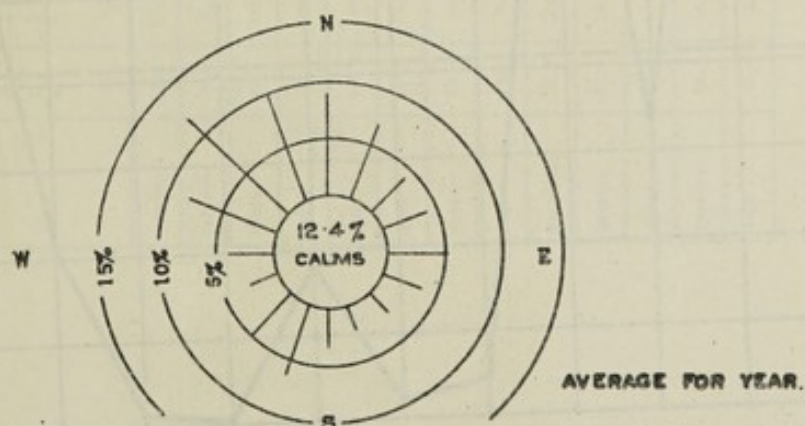
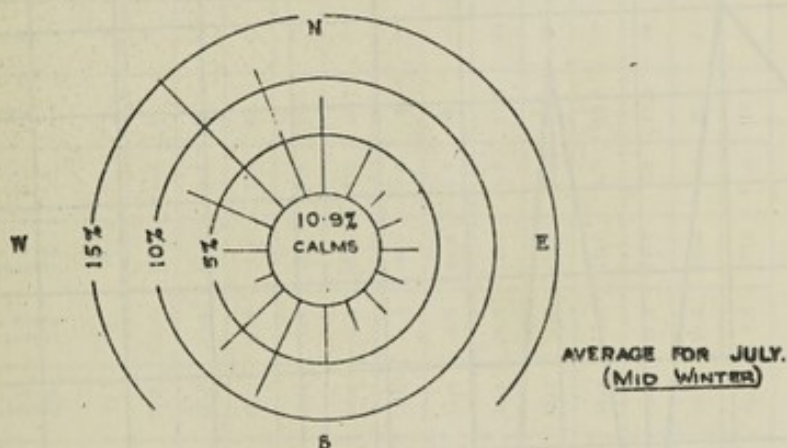
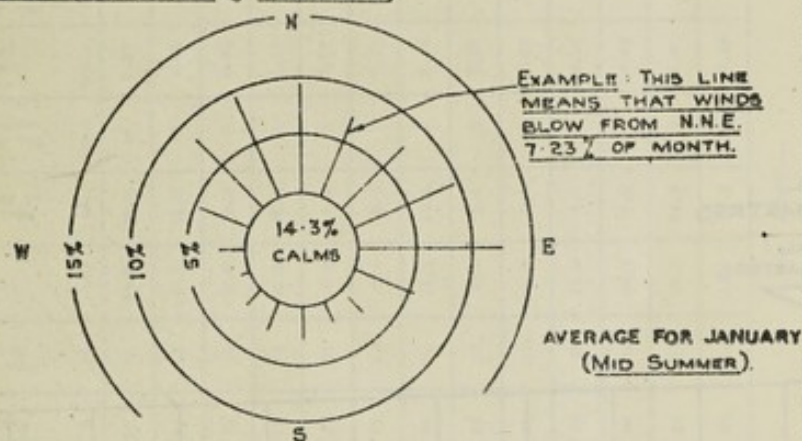
# WIND FREQUENCIES FOR CENTRAL WITWATERSRAND.

INDICATING DIRECTIONS FROM WHICH THE WINDS BLOW,

CALCULATED AS PERCENTAGES OF THE PERIOD GIVEN.

PERCENTAGE CALMS ARE GIVEN WITHIN THE CIRCLE

(ARCS REPRESENT 5% INTERVALS)



DATA RECORDED AT JAN SMUTS AIRPORT, LAT. 29° 08'S, LONG. 28° 14'E,

AND TAKEN FROM "CLIMATE OF SOUTH AFRICA: PART 6"

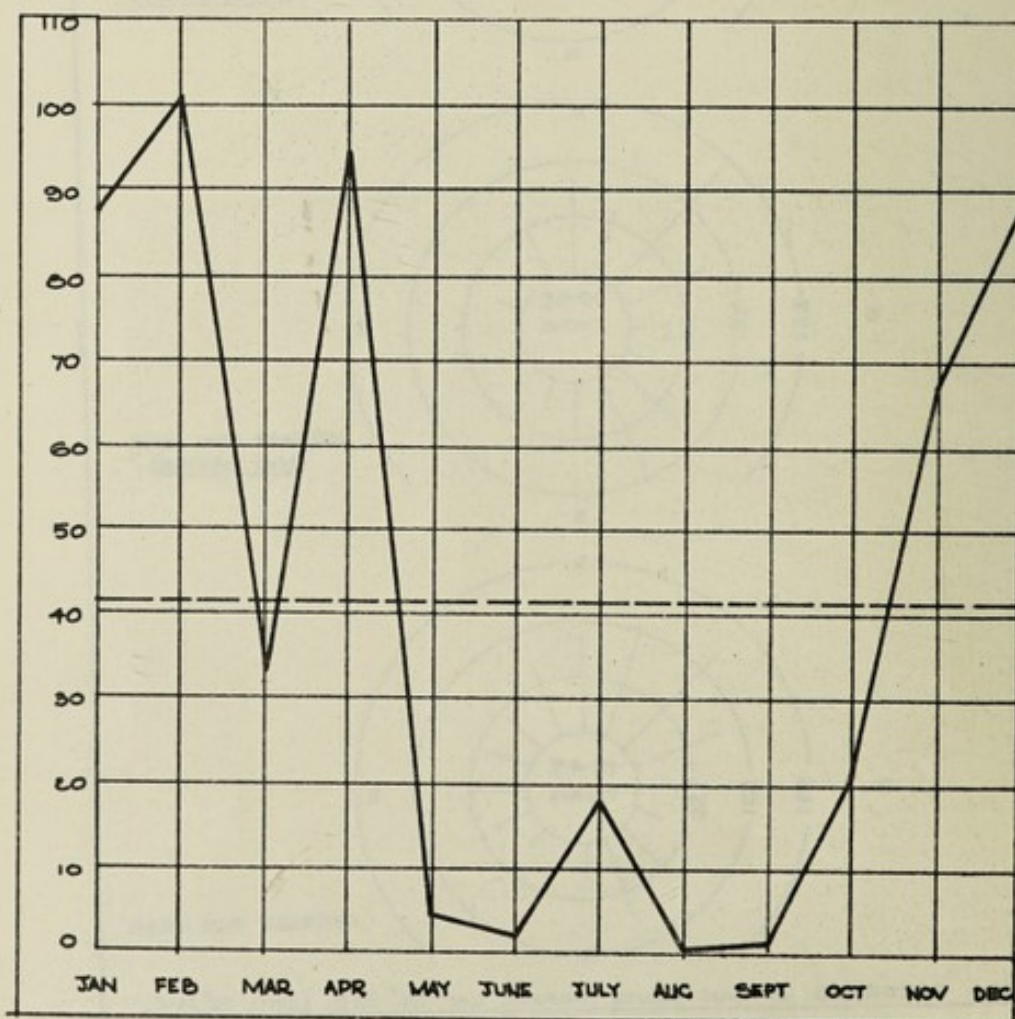
SURFACE WINDS, PUBLISHED BY THE WEATHER BUREAU, PRETORIA, 1960.



CITY OF JOHANNESBURG  
AVERAGE MONTHLY RAINFALL—1935

STAD JOHANNESBURG  
GEMIDDELTE MAANDELIKSE REËNVAL—1965

RAINFALL:  
IN MILLIMETRES  
REËNVAL:  
MILLIMETERS



The/...

The following table reflects the averages of records of climatic conditions each month during the year 1965:-

	Air Temperature							Relative Humidity			Rainfall (Millimetres)			Bright Sunshine		
	Mean Daily Maximum	Mean Daily Minimum	Highest of Daily Max.	Lowest of Daily Max.	Highest of Daily Min.	Lowest of Daily Min.	Mean	Mean Daily Maximum	Mean Daily Minimum	Total	Max. Fall in 24 Hours	No. of Days with Rain	Mean Daily	No. of Days with 10% or less	No. of Days with 10% or more	
	°C	°C	°C	°C	°C	°C	°C	%	%	mm.	mm.	Days	Hours	Days	Days	
January	24.9	14.6	28.6	21.1	18.2	11.2	18.9	74	98	46	88.2	19.5	12	9.19	0	4
February	26.2	15.7	29.0	23.2	18.2	11.6	20.1	65	93	38	103.5	51.0	9	9.90	0	7
March	24.7	14.1	29.0	17.5	18.2	9.0	18.3	62	93	35	32.0	13.0	4	8.88	0	7
April	19.7	10.4	25.5	10.8	16.2	2.8	14.4	71	95	45	96.8	46.0	11	7.75	3	10
May	19.3	8.6	24.2	13.5	12.5	5.5	12.9	53	77	31	2.0	1.2	3	9.37	0	20
June	14.1	3.5	19.0	7.0	10.4	-1.0	8.0	50	72	28	0.6	0.3	2	9.23	0	20
July	16.3	5.6	21.2	6.0	11.0	-0.4	9.9	55	80	33	18.5	13.0	2	9.46	1	25
August	20.1	9.1	24.8	11.0	14.3	4.8	13.5	45	68	27	0.0	0.0	0	9.27	1	18
September	22.0	10.4	26.7	12.5	16.2	1.0	15.7	49	62	25	0.8	0.6	2	9.67	0	15
October	22.4	10.2	31.6	7.5	19.2	0.5	15.8	47	78	25	21.4	8.5	4	10.31	0	16
November	23.9	13.6	30.0	11.6	18.6	4.8	17.8	69	94	42	68.5	26.0	9	7.65	3	3
December	26.9	15.1	29.5	20.0	19.0	10.4	20.1	60	90	33	89.0	24.5	11	9.85	0	6
Year	21.7	10.9	31.6	6.0	19.2	-1.0	15.5	58	85	34	521.3	51.0	69	9.24	8	151

11. Vital/...



# 11. VITAL STATISTICS

The following table summarises the principal vital statistics for 1965:-

	1965					1964
	Europeans	Coloureds	Asiatics	Bantu	All Persons	All Persons
Population	384,400	48,232	19,860	517,747	970,239	980,170
Births (Number of)	8,855	2,192	602	13,827	25,476	24,757
Birth Rate	23.04	45.45	30.31	27.08	26.86	25.83
Illegitimate Birth Rate %	3.64	23.54	2.16	41.70	25.97	22.66
Deaths (Number of)	3,487	589	135	6,137	10,348	10,133
Death Rate	9.07	12.21	6.80	11.85	10.66	10.33
Infantile Deaths	198	126	19	1,090	1,433	1,562
Infantile Mortality Rate	22.36	57.48	31.56	78.83	56.25	63.09
Maternal Deaths	3	4	-	65	72	69
Maternal Death Rate	0.33	1.78	-	4.60	2.77	2.74

These figures are corrected for outward transfer only. The population recorded is based on estimates as at 30 June 1965 and the rates are calculated thereon. The Bantu population included 21,973 mine Bantu among whom there were 55 deaths with a death rate of 2.50.

The statistical factors recorded above are referred to in more detail in the paragraphs which follow:-

## (a) POPULATION

	1960	1961	1962	1963	1964	1965
Europeans	368,277	370,000	372,400	374,800	379,600	384,400
Coloureds	42,943	43,670	45,090	49,004	51,976	48,232
Asiatics	23,647	24,000	25,770	26,327	26,896	19,860
Bantu	522,953	532,677	515,804	517,979	521,698	517,747
TOTAL	957,820	970,347	959,064	968,110	980,170	970,239

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The following estimates of Bantu population were arrived at in consultation with the Manager, Non-European Affairs Department of the Council:-

Place	1965	1964	1963
Central Western Jabavu	10,013	8,689	8,657
Jabavu	26,102	25,468	23,191
Chiawelo	20,612	20,152	12,868
Dhlamini	9,125	9,015	9,070
Dube	12,565	12,727	12,527
Emdeni	11,879	11,680	11,165
Jabulani	11,916	11,724	11,485
Mapetla	13,148	11,476	8,823
Mofolo	30,186	28,284	28,425
Molapo	8,052	8,188	8,386
Moletsane	10,235	10,360	10,481
Moroka	16,504	15,207	15,611
Naledi	19,954	19,923	19,398
Orlando	57,849	59,662	60,774
Orlando Extension	5,941	5,831	5,826
Phiri	10,788	11,332	11,089
Pimville	29,057	29,088	32,210
Senaoane	9,303	8,732	8,353
Tladi	10,013	10,000	9,988
Zola	30,531	30,630	30,052
Zondi	9,314	8,861	9,018
Eastern Bantu Township	3,260	3,965	3,932
Dube Hostel	5,089	4,994	5,020
Nancefield Hostel	4,944	4,578	4,762
Jabulani Hostel	4,129	4,175	4,018
Denver Men's Hostel	3,332	3,336	3,332
George Goch Men's Hostel	3,000	2,950	2,830
Mai-Mai Men's Hostel	Nil	Nil	Nil
Wemmer Men's Hostel	2,817	2,807	2,807
Wolhuter Men's Hostel	3,123	3,123	3,123
Municipal Compounds	8,863	9,093	9,093
Privately-housed (Licensed)	33,702	33,458	33,483
Privately-housed (Unlicensed)	60,300	70,000	72,249
Wolhuter Women's Hostel	128	126	133
Mine Bantu	21,973	22,064	25,800
<b>TOTAL ESTIMATED BANTU POPULATION</b>	<b>517,747</b>	<b>521,698</b>	<b>517,979</b>

(b) BIRTH RATES

The rates for the six years 1960 to 1965 inclusive are shown in the following table:-

	Europeans	Coloureds	Asiatics	Bantu	All Persons
1960	23.92	39.05	29.52	32.07	28.20
1961	24.01	39.91	29.96	33.46	29.96
1962	23.54	41.12	26.70	39.98	33.11
1963	24.41	41.18	25.34	35.22	30.96
1964	24.36	40.15	20.04	25.78	25.83
1965	23.04	45.45	30.31	27.88	26.86

(c) DEATHS

The death rates over a period of six years are shown in the following table:- (Rates are corrected for outward transfers).

	Europeans	Coloureds	Asiatics	Bantu	All Persons
1960	8.38	9.85	6.34	10.93	9.79
1961	8.39	9.30	6.08	10.05	9.29
1962	8.31	10.89	5.16	10.19	9.36
1963	9.02	9.63	5.74	10.24	9.61
1964	10.57	9.52	3.94	10.57	10.33
1965	9.07	12.21	6.80	11.85	10.66

An abbreviated list of 50 causes of death classified according to race and a list of the causes of death classified in the main group causes, with comparative tables for 1963, 1964 and 1965 and a graph showing the most prominent causes of death are provided for information.

Deaths/...



DEATHS CLASSIFIED FOR CAUSES AND RACE, 1965

ABBREVIATED LIST OF 50 CAUSES OF DEATH

International Code No.	Cause of Death	Europeans	Bantu	Mixed Bantu	Coloureds	Asiatics	All Races
001 - 008	Tuberculosis Respiratory System	14	170	3	18	3	208
010 - 019	Tuberculosis Other Forms	-	75	2	1	1	79
020 - 029	Syphilis	12	22	-	1	-	36
040	Typhoid Fever	1	5	-	1	-	7
045 - 048	Dysentery	1	29	-	1	-	31
055	Diphtheria	2	4	-	-	-	6
056	Whooping Cough	1	8	-	2	-	11
057	Meningococcal Infections	3	7	-	-	-	10
080	Acute Poliomyelitis	1	1	-	-	-	2
085 - 086	Measles	-	24	-	3	1	28
140 - 205	Other Diseases Classified as Infectious and Parasitic	26	41	-	3	2	72
210 - 239	Malignant Neoplasms	384	365	2	49	7	1,007
260	Benign Neoplasms	9	10	-	1	1	21
290 - 293	Diabetes Mellitus	75	47	-	8	8	138
330 - 334	Anaemias	9	13	-	3	1	26
400 - 402	Vascular Lesions Affecting General Nervous System	247	225	2	26	5	505
410 - 416	Non-Meningococcal Infections	9	55	1	3	-	68
420 - 422	Rheumatic Fever	2	6	-	-	-	8
430 - 434	Chronic Rheumatic Heart Disease	18	35	-	8	-	61
440 - 443	Arteriosclerotic and Regenerative Heart Disease	850	77	1	30	24	982
444 - 447	Other Diseases of the Heart	69	195	1	17	2	284
450 - 456	Hypertension with Heart Disease	21	72	-	17	-	100
480 - 483	Hypertension without Mention of Heart	86	128	-	17	1	232
490 - 493, 763	Diseases of Arteries	102	29	-	4	3	138
500 - 502	Influenza	2	4	-	1	-	7
540 - 541	Pneumonia	150	474	-	55	4	683
550 - 553	Bronchitis	89	56	-	17	4	166
560, 561, 570	Ulcer of Stomach and Duodenum	38	7	1	1	-	47
571, 764	Appendicitis	2	3	-	-	-	5
590 - 594	Intestinal Obstruction and Hernia	15	13	1	2	2	33
610	Gastro-Enteritis	27	527	1	34	4	592
640 - 652	Cirrhosis of Liver	46	82	1	10	3	122
670 - 689	Nephritis and Nephrosis	29	43	-	3	2	79
750 - 759	Nephritis of Prostate	7	4	-	-	-	11
760 - 762	Complications of Pregnancy and Childbirth	3	56	-	3	-	62
763 - 776	Congenital Malformations	-	9	-	1	-	10
780 - 795	Birth Injuries and Post-natal Asphyxia	56	44	-	5	4	109
810 - 835	Other Infant Diseases and Immaturity	38	33	-	13	4	88
840 - 865	Senility and Ill-Defined Conditions	76	93	-	54	7	230
870 - 979	Motor Vehicle Accidents	88	1,168	-	35	1	1,292
980 - 999	All Other Accidents	100	270	6	27	13	416
	Suicide	2	94	1	4	-	101
	Homicide	121	2	-	-	2	123
	Other Causes	36	797	9	6	5	890
	TOTAL	420	638	23	74	15	1,170
		3,487	6,082	55	589	135	10,348

CORRECTED FOR OUTWARD TRANSFER

Summary/...



SUMMARY OF DETAILED LIST OF DISEASES, INJURIES AND  
CAUSES OF DEATH 1963 - 1965

Cause of Death	1963			1964			1965		
	Deaths	Rate	% of Total	Deaths	Rate	% of Total	Deaths	Rate	% of Total
<b>I. Infective and Parasitic Diseases</b>									
Europeans	86	0.22	2.54	103	0.27	2.56	61	0.16	1.75
Bantu	396	0.76	7.46	456	0.87	8.27	391	0.76	6.37
Coloureds	26	0.53	5.50	34	0.65	6.87	31	0.64	5.26
Asiatics	4	0.15	2.64	2	0.07	1.89	7	0.35	5.19
<b>All Persons</b>	<b>512</b>	<b>0.52</b>	<b>5.50</b>	<b>595</b>	<b>0.61</b>	<b>5.67</b>	<b>490</b>	<b>0.51</b>	<b>4.74</b>
<b>II. Neoplasms</b>									
Europeans	554	1.47	16.39	691	1.82	17.21	593	1.54	17.01
Bantu	327	0.63	6.16	309	0.59	8.60	377	0.73	6.14
Coloureds	33	0.67	6.99	53	1.02	10.71	50	1.04	8.49
Asiatics	11	0.41	7.28	8	0.30	7.55	8	0.40	5.93
<b>All Persons</b>	<b>925</b>	<b>0.95</b>	<b>9.94</b>	<b>1,061</b>	<b>1.08</b>	<b>10.47</b>	<b>1,028</b>	<b>1.06</b>	<b>9.93</b>
<b>III. Allergic, Endocrine System, Metabolic and Nutritional Diseases</b>									
Europeans	77	0.20	2.27	128	0.34	3.19	118	0.31	3.38
Bantu	147	0.28	2.77	181	0.35	3.28	157	0.30	2.56
Coloureds	18	0.36	3.81	14	0.27	2.83	21	0.44	3.57
Asiatics	11	0.41	7.28	4	0.15	3.77	12	0.60	8.89
<b>All Persons</b>	<b>253</b>	<b>0.26</b>	<b>2.71</b>	<b>327</b>	<b>0.33</b>	<b>3.23</b>	<b>308</b>	<b>0.32</b>	<b>2.98</b>
<b>IV. Diseases of the Blood and Blood-Forming Organs</b>									
Europeans	14	0.03	0.41	14	0.04	0.35	15	0.04	0.43
Bantu	17	0.03	0.32	13	0.02	0.24	19	0.04	0.31
Coloureds	1	0.02	0.21	Nil	Nil	Nil	3	0.06	0.51
Asiatics	1	0.03	0.66	Nil	Nil	Nil	1	0.05	0.74
<b>All Persons</b>	<b>33</b>	<b>0.03</b>	<b>0.35</b>	<b>27</b>	<b>0.03</b>	<b>0.27</b>	<b>38</b>	<b>0.04</b>	<b>0.37</b>
<b>V. Mental, Psychoneurotic and Personality Disorders</b>									
Europeans	8	0.02	0.23	1	0.002	0.02	6	0.02	0.17
Bantu	2	0.003	0.03	7	0.01	0.13	5	0.009	0.08
Coloureds	Nil	Nil	Nil	1	0.02	0.20	1	0.02	0.17
Asiatics	Nil	Nil	Nil	Nil	Nil	Nil	1	0.05	0.74
<b>All Persons</b>	<b>10</b>	<b>0.01</b>	<b>0.10</b>	<b>9</b>	<b>0.009</b>	<b>0.09</b>	<b>13</b>	<b>0.01</b>	<b>0.13</b>
<b>VI. Diseases of the Nervous System and Sense Organs</b>									
Europeans	185	0.49	5.47	250	0.66	16.23	299	0.78	8.57
Bantu	261	0.50	4.92	222	0.43	4.02	338	0.65	5.51
Coloureds	32	0.65	6.77	23	0.44	4.65	36	0.73	6.11
Asiatics	11	0.41	7.28	6	0.22	5.66	7	0.35	5.19
<b>All Persons</b>	<b>489</b>	<b>0.50</b>	<b>5.25</b>	<b>501</b>	<b>0.51</b>	<b>4.94</b>	<b>680</b>	<b>0.70</b>	<b>6.57</b>
<b>VII. Diseases of the Circulatory System</b>									
Europeans	1,362	3.63	40.29	1,482	3.90	36.90	1,197	3.11	34.33
Bantu	564	1.08	10.63	614	1.18	11.13	580	1.12	9.45
Coloureds	109	2.22	23.09	88	1.69	17.78	88	1.82	14.94
Asiatics	43	1.63	28.47	28	1.04	26.42	31	1.56	22.96
<b>All Persons</b>	<b>2,078</b>	<b>2.14</b>	<b>22.33</b>	<b>2,212</b>	<b>2.26</b>	<b>21.83</b>	<b>1,896</b>	<b>1.95</b>	<b>18.32</b>
<b>VIII. Diseases of the Respiratory System</b>									
Europeans	192	0.51	5.68	236	0.62	5.88	291	0.76	8.35
Bantu	574	1.10	10.82	553	1.06	10.03	593	1.15	9.66
Coloureds	56	1.14	11.86	46	0.89	9.29	88	1.82	14.94
Asiatics	9	0.34	5.96	11	0.41	10.38	10	0.50	7.41
<b>All Persons</b>	<b>831</b>	<b>0.44</b>	<b>4.63</b>	<b>846</b>	<b>0.86</b>	<b>8.35</b>	<b>982</b>	<b>1.01</b>	<b>9.49</b>

IX. Diseases/ ...

Cause of Death	1963			1964			1965		
	Deaths	Rate	% of Total	Deaths	Rate	% of Total	Deaths	Rate	% of Total
<b>IX. Diseases of the Digestive System</b>									
Europeans	131	0.34	3.87	210	0.55	5.23	158	0.41	4.53
Bantu	574	1.10	10.82	604	1.16	10.95	634	1.22	10.33
Coloureds	36	0.73	7.62	45	0.87	9.09	46	0.95	7.81
Asiatics	5	0.18	3.31	9	0.33	8.49	9	0.45	6.67
All Persons	746	0.77	8.01	868	0.89	8.57	847	0.87	8.19
<b>X. Diseases of the Genito-Urinary System</b>									
Europeans	84	0.22	2.48	72	0.19	1.79	75	0.20	2.15
Bantu	88	0.16	1.65	77	0.15	1.40	77	0.15	1.25
Coloureds	2	0.04	0.42	6	0.12	1.21	5	0.10	0.85
Asiatics	7	0.26	4.63	2	0.07	1.89	2	0.10	1.48
All Persons	181	0.18	1.94	157	0.16	1.55	159	0.16	1.54
<b>XI. Deliveries and Complications of Pregnancy, Childbirth and the Puerperium</b>									
Europeans	1	0.002	0.02	9	0.02	0.22	3	0.007	0.09
Bantu	63	0.12	1.18	58	0.11	1.06	65	0.13	1.06
Coloureds	5	0.10	1.05	2	0.04	0.40	4	0.08	0.68
Asiatics	2	0.26	1.32	Nil	Nil	Nil	Nil	Nil	Nil
All Persons	71	0.07	0.76	69	0.07	0.68	72	0.07	0.70
<b>XII. Diseases of the Skin and Cellular Tissue</b>									
Europeans	4	0.01	0.11	2	0.005	0.05	Nil	Nil	Nil
Bantu	4	0.007	0.07	5	0.009	0.09	5	0.009	0.08
Coloureds	2	0.04	0.42	Nil	Nil	Nil	Nil	Nil	Nil
Asiatics	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
All Persons	10	0.01	0.10	7	0.007	0.07	5	0.005	0.05
<b>XIII. Diseases of the Bones and Organs of Movement</b>									
Europeans	8	0.02	0.23	11	0.03	0.27	13	0.03	0.37
Bantu	7	0.01	0.13	5	0.009	0.09	14	0.03	0.23
Coloureds	2	0.04	0.42	2	0.04	0.40	1	0.02	0.17
Asiatics	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
All Persons	17	0.01	0.18	18	0.02	0.18	28	0.03	0.27
<b>XIV. Congenital Malformations</b>									
Europeans	45	0.12	1.33	70	0.18	1.74	56	0.15	1.61
Bantu	41	0.07	0.77	45	0.09	0.82	44	0.08	0.72
Coloureds	6	0.12	1.27	6	0.12	1.21	5	0.10	0.85
Asiatics	2	0.07	1.32	2	0.07	1.89	4	0.20	2.96
All Persons	94	0.09	1.01	123	0.13	1.21	109	0.11	1.05
<b>XV. Certain Diseases of Early Infancy</b>									
Europeans	149	0.39	4.40	185	0.49	4.61	121	0.31	3.47
Bantu	292	0.56	5.50	190	0.36	3.44	174	0.34	2.84
Coloureds	51	1.04	10.80	53	1.02	10.71	73	1.51	12.40
Asiatics	28	1.06	18.54	15	0.56	14.15	11	0.55	8.15
All Persons	520	0.53	5.58	443	0.45	4.37	379	0.39	3.66
<b>XVI. Symptoms, Senility and Ill-Defined Conditions</b>									
Europeans	137	0.36	4.05	133	0.35	3.31	88	0.23	2.52
Bantu	882	1.70	16.63	1,081	2.07	19.60	1,168	2.26	19.03
Coloureds	24	0.48	5.08	39	0.75	7.88	35	0.73	5.94
Asiatics	1	0.03	0.66	1	0.04	0.94	1	0.05	0.74
All Persons	1,044	1.07	11.21	1,254	1.28	12.38	1,292	1.33	12.49
<b>XVII. Alternative Classifications of Accidents, Poisonings and Violence (External Cause)</b>									
Europeans	343	0.91	10.14	419	1.10	10.43	393	1.02	11.27
Bantu	1,053	2.05	20.04	1,056	2.10	19.87	1,496	2.89	24.38
Coloureds	69	1.40	14.61	83	1.60	16.77	102	2.11	17.32
Asiatics	16	0.60	10.59	18	0.67	16.98	31	1.56	22.96
All Persons	1,491	1.54	16.02	1,616	1.65	15.95	2,022	2.08	19.54

CORRECTED FOR OUTWARD TRANSFER

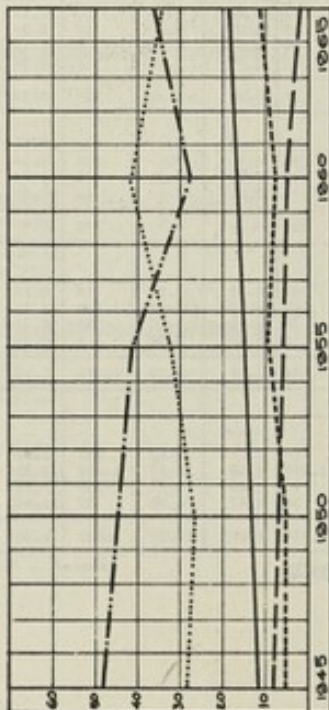
Causes/...



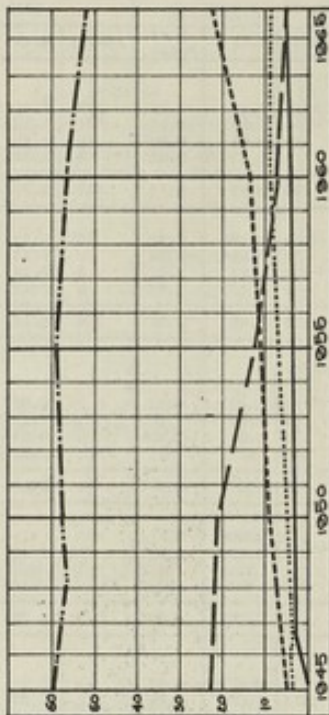
# CAUSES OF DEATH — ORSAKE VAN DOOD —

PERCENTAGES  
PERSENTASIES

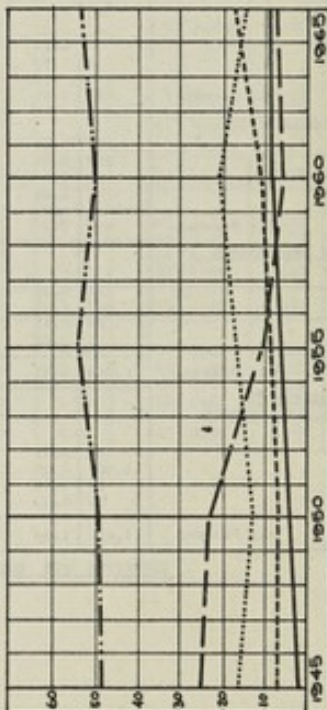
EUROPEANS - BLANKES



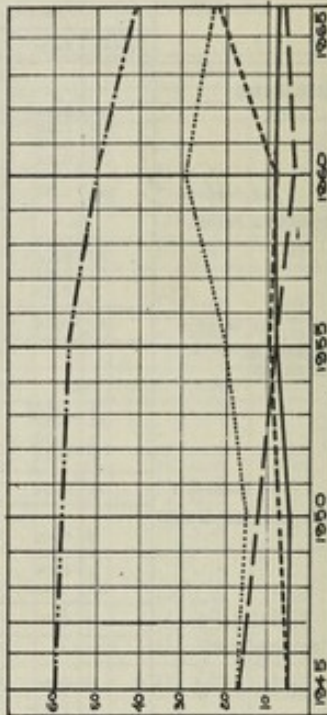
DANTU - DANTOES



COLOURED - KLEURLINGE



ASIATICS - ASIATE



KEY :

- GROUP 1. INFECTIVE & PARASITIC DISEASES
- GROUP 2. NEOPLASMS
- GROUP 7. DISEASES OF THE CIRCULATORY SYSTEM
- GROUP 17. ALTERNATIVE CLASSIFICATION OF ACCIDENTS / POISONINGS & VIOLENCE
- OTHER GROUPS

VERKLARING :

- GROUP 1. BESMETLIKE & PARASITIESE SIEKTES
- GROUP 2. GEWELASSE
- GROUP 7. SIEKTES VAN DIE BLOEDSONLOOP
- GROUP 17. ALTERNATIEWE INDELING VAN ONGESUKKE / VERSCIFTINGS & GEWELD
- ANDER GROEPES

Infantile/...



(d) INFANTILE MORTALITY

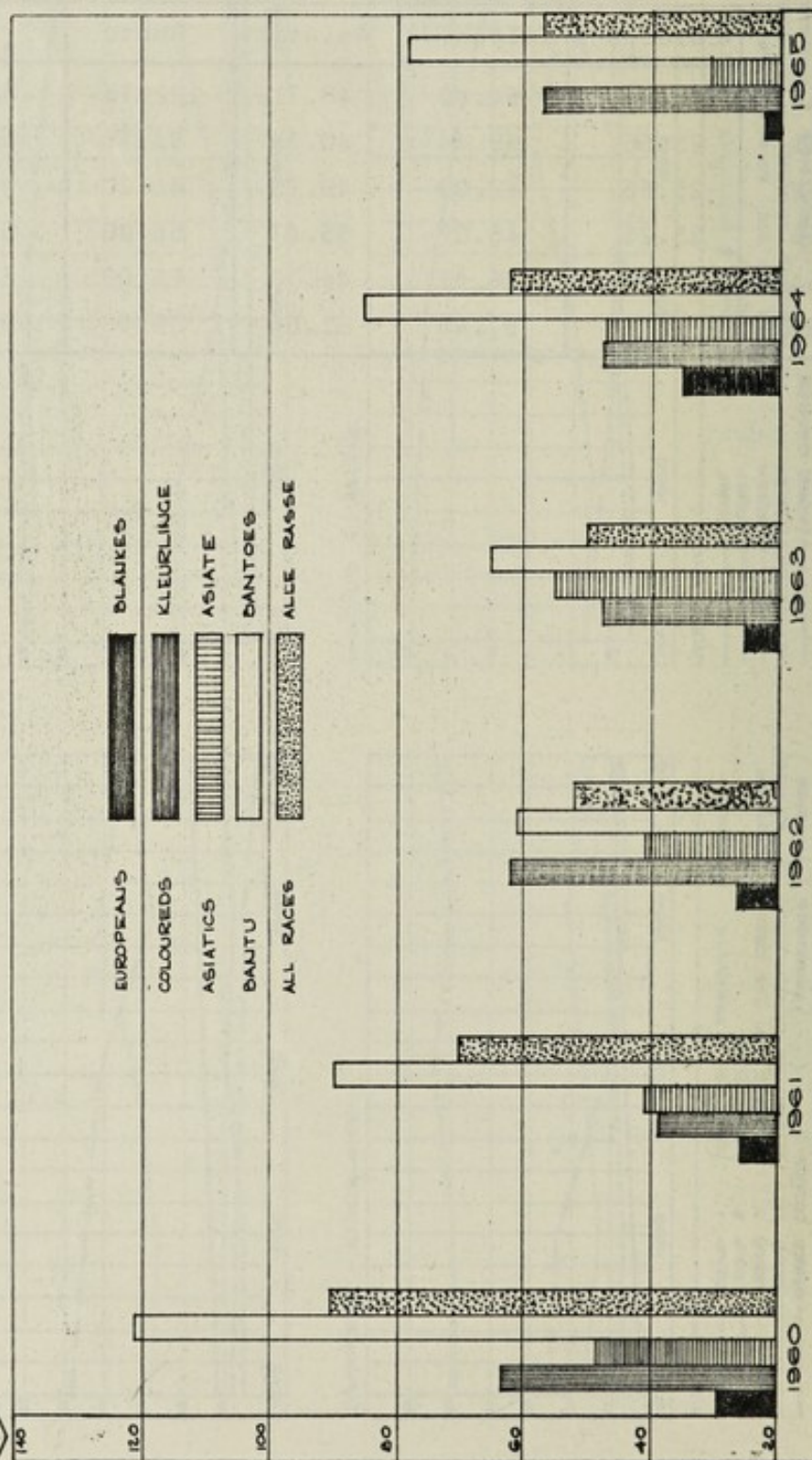
The rates for the six years 1960 to 1965 inclusive are shown in the following table:-

	Europeans	Coloureds	Asiatics	Bantu	All Persons
1960	28.27	64.40	48.71	122.75	86.41
1961	25.66	38.44	40.33	91.78	66.40
1962	25.66	62.03	40.70	61.20	50.71
1963	25.25	48.07	55.47	66.00	51.73
1964	35.78	46.47	46.38	86.09	63.09
1965	22.36	57.48	31.56	78.83	56.25

Infantile/...

— INFANTILE MORTALITY RATE — (PER 1000 LIVE BIRTHS) —  
 — STERFTESYFER : KINDERS — (PER 1000 LEVENDEGEBORES BABAS) —

PER 1000



Maternal/...

(e) MATERNAL MORTALITY

Maternal mortality is measured by the number of maternal deaths per 1,000 births (including still births).

Details of the maternal mortality rates for the six years 1960 - 1965 are shown in the following table:-

	Europeans	Coloureds	Asiatics	Bantu	All Races
1960	0.22	1.77	1.40	2.35	1.60
1961	0.56	1.13	1.37	2.13	1.56
1962	0.90	0.53	Nil	2.01	1.56
1963	0.11	2.44	2.95	3.58	2.40
1964	0.96	0.93	Nil	4.42	2.74
1965	0.33	1.78	Nil	4.60	2.77

111. INFECTIOUS, COMMUNICABLE AND PREVENTABLE DISEASES

(a) The investigation of reported cases of infectious disease is carried out by two health inspectors (1 European and 1 Bantu) with occasional assistance from district health inspectors in outlying districts. Cases of puerperal sepsis and pemphigus neonatorum are investigated by the Senior Health Visitor (Nursing Homes and Midwives) and her assistants, and cases of ophthalmia by health visitors.





(b) DISINFECTIONS AND REMOVALS

The motor vehicle fleet as at 31 December 1965 was made up as follows:-

Ambulances

Sitting Type Tuberculosis Domiciliary	1
<u>Bus 20 Seater</u>	
Tuberculosis Domiciliary	1

Station Wagons

Midwifery Services - Soweto	15
Conveyance Part-time Medical Officers	1
Conveyance Radiographers	1
Cydnal Laboratory	1

Special Vehicles

T.I.F.A. Fogging Machine	1
Mobile Child Health Clinic	1
Mobile X-ray Unit	1
Waterval Hospital European Staff Duty Bus	1
Waterval Hospital European Staff Auxiliary Van	1
Waterval Hospital Non-European Light Bus	1

Vans and Trucks

Pest Control	9
General Transport Disinfecting Station	4
Stores Delivery	2
Waterval Hospital Laundry	1
Transport and Disinfecting Superintendent Transport	1
Air Pollution Control	1
Housing Division	1
Nursery Schools	1
Workshop Breakdown Truck	1
Mobile Messenger	1

Motor Tricycle

European Housing	1
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 49



The distances covered by the different vehicle groups over the six years are shown in the following table:-

	1960	1961	1962	1963	1964	1965
Ambulances	74,819	44,532	-	-	-	-
Tuberculosis Ambulances	39,153	32,367	31,086	33,898	33,692	32,466
Medical and Midwifery Services	701,061	413,258	411,848	450,711	424,797	428,810
Other Vehicles	167,731	231,097	201,294	195,209	244,018	203,230
TOTAL	982,764	721,254	644,228	679,818	702,507	664,506

A summary of the work done at the Disinfecting Station during 1965 is as follows:-

Disinfection and Disinfestation of Persons, Premises, Vehicles, etc.

Premises Disinfected	51
Persons attending the Disinfecting Station ) for deverminising and scabin treatment )	18
Ambulance Drivers and Attendants from Fire ) Department )	2,550
Ambulances from Fire Department	1,275
Disinfecting Station Vehicles	245

Formalin Treatment of Clothing, Bedding, etc. and Steam Autoclaving Treatment

Miscellaneous bundles of clothing	269
Costs of Ambulance Drivers and Attendants	2,083
Fire Department Ambulance Blankets	2,247
Bedding from Nursing Homes - Blankets	348
- Mattresses	266
- Pillows	1,259
- Pillowslips	61
- Sheets	53
- Miscellaneous	208
Parcels of clothing for distribution overseas	17
Parcels of clothing for S.A. Jewish Orphanage	5

Steam/...



Steam Autoclaving (Small Capacity Butterworth Electric Autoclaves)

Dressing Drums - from Clinics	5,881
Nursing Homes	3,404
Doctors and Midwives	517
	<u>9,802</u>
Dressing Packs from Midwives	51

(c) DISPENSARY

The following statistics reflect the activities of the Dispensary which is situated at Westdene:-

Manufacture

	<u>1965</u>	<u>1964</u>
(i) Liquids	7,189 gallons	6,476 gallons
(ii) Ointments	5,573 lbs.	4,618 lbs.

Dispensing

(i) Liquids	559,723 bottles	561,106 bottles
(ii) Ointments	45,525 jars	38,621 jars
(iii) Tablets	18,927,800	16,146,030

Comparison of figures for the past five years:-

	<u>Manufacture</u>		<u>Dispensing</u>		
	Liquids	Ointments	Liquids	Ointments	Tablets
1961	6,463	4,671	464,288	28,243	7,401,000
1962	6,857	5,013	523,931	34,455	7,924,100
1963	6,494	4,785	537,056	35,839	15,083,800
1964	6,476	4,618	561,106	38,621	16,146,030
1965	7,189	5,573	559,723	45,525	18,927,800
% Increase	11.23	19.31	20.55	61.19	155.74

Issues/...

Issues of dispensed products from Westdene Store to the Department's various services:-

Service	Liquids	Tablets	Ointments	Skimmed Milk Powder	Full-Cream Milk Powder
Curative	296,888	4,618,700	31,461	-	-
Midwifery	18,768	407,400	-	-	-
Tuberculosis	135,879	12,683,800	5,002	172,047	3,530
Child Health	104,865	690,200	5,899	304,950	295,637
TOTAL 1965	556,400	18,400,100	42,362	476,997	299,167
1964	566,182	16,193,350	38,947	427,374	270,162

In addition 9,625,200 P.A.S. tablets in ready-dispensed form were issued (1964 = 8,055,600).

#### Oral Poliomyelitis Vaccine

A total of 156,650 doses of oral poliomyelitis vaccine was issued as follows:-

	1965	1964
Hoek Street	44,650	52,400
Bantu Townships	91,990	89,760
Coloured and Asiatic	5,690	4,750
Private Practitioners	14,320	12,780
TOTAL	156,650	159,690

#### Milk Powder

Despite the drought conditions, sufficient stocks of both skimmed milk and full-cream milk powders have been maintained.

Included in the amount of 304,950 lbs. of skimmed milk powder issued to the Child Health Services, is an amount of 63,960 lbs. issued to the African Children's Feeding Scheme.

#### (d) HOSPITALISATION OF INFECTIOUS DISEASES

##### (i) Fever Hospital

The hospital is administered on behalf of the Council by the Johannesburg Hospital Board which is reimbursed by the Council for the expenditure incurred. The following statistics reflect the activities of the hospital:-

Patient/...



PATIENT STATISTICS FOR YEAR ENDING DECEMBER 1965 COMPARED WITH 1964  
FEVER HOSPITAL

IN PATIENTS TREATED:	Males	Females	Total	1965				1964					
				Paying	Private	Part paying	Free	Total	Paying	Private	Part paying	Free	Total
Patients remaining in hospital at Midnight 31.12.64	10	4	14	7	-	-	7	14	18	-	-	12	30
Number of patients admitted	525	454	979	359	-	4	616	979	230	-	18	616	864
Total number of patients treated	535	458	993	366	-	4	623	993	248	-	18	626	894
Number of patients discharged	515	447	962	354	-	4	604	962	234	-	18	612	864
Number of patients died	13	5	18	6	-	-	12	18	7	-	-	9	16
Number of patients remaining in hospital - Midnight 31.12.65	7	6	13	6	-	-	7	13	7	-	-	7	14
	535	458	993	366	-	4	623	993	248	-	18	626	894

1965  
Daily Average 26.88  
Bed Establishment 65  
Percentage Occupation 41.28  
Number of Deaths 18  
Number of Operations 6  
Patient Days 9820

1964  
Sept. 30.56  
Oct. 37.27  
16  
12  
11.148

(11) Interval/...



(ii) Waterval Hospital

The hospital has operated under extremely difficult conditions during 1965 because of the intention to close the hospital and to conduct the hospital services elsewhere.

The following are the details of the number of admissions discharges and deaths in the wards during the year:-

	<u>Admissions</u>	<u>Discharges</u>	<u>Deaths</u>
Tuberculosis	135	164	8
Infectious Fevers	850	723	73
Council Employees	600	501	28
TOTAL	<u>1,585</u>	<u>1,388</u>	<u>109</u>

The following are the details of the number of patient days for the year:-

Tuberculosis	20,286
Infectious Fevers	19,916
Council Employees	12,304
TOTAL	<u>52,506</u>

Council Employees

600 Non-European employees were admitted to the Medical and Surgical ward, 501 were discharged and there were 28 deaths.

Non-European employees received treatment in the Out-patient Department for a total of 29,536 patient days as follows:-

Resident Outpatients	22,190
*Resident Outpatients Tuberculosis (2 patients)	159
Casual visits	6,029
Casual visits Tuberculosis	1,158
TOTAL	<u>29,536</u>

\* There were no tuberculosis patients in the Resident Out-patients Department during the period 1 July 1965 to 31 December 1965.

The hospital is administered on behalf of the Council by the Johannesburg Hospital Board which is reimbursed by the Council for the expenditure incurred. The following statistics reflect the activities of the hospital:-

Infectious/...

Patient/...

Infectious Fever Cases Admitted During the Year:-

Disease	Bantu		Coloureds		Asiatics		Positive	Negative	Total
	Male	Female	Male	Female	Male	Female			
<u>Diphtheria:</u>	81	102	2	4	-	-	189	59	248
" Carriers:	-	-	-	-	-	-	-	-	-
1. Faucial -	7	9	1	-	-	-	17	-	17
2. Faucial and Nasal	-	-	-	-	-	-	-	-	-
3. Nasal -	-	-	-	-	-	-	-	-	-
<u>Polio-myelitis:</u>	5	5	-	-	-	-	10	2	12
<u>Scarlet Fever:</u>	1	-	-	-	-	-	1	-	1
<u>Typhoid Fever:</u>	31	29	8	7	-	1	76	5	81
<u>Encephalitis:</u>									
Meningo -	-	1	-	-	-	-	1	-	1
<u>Measles:</u>	96	80	4	6	-	-	186	1	187
<u>Whooping Cough:</u>	39	35	2	4	-	-	80	1	81
<u>Chicken-Pox:</u>	30	18	-	-	-	-	48	2	50
<u>Mumps:</u>	15	2	-	-	-	-	17	1	18

(iii) Tuberculosis Services

European Section

European patients are supervised and treated in their homes, treated at the clinic or admitted to hospital where this is necessary and when beds are available. The domiciliary treatment is supervised by the medical staff and health visitors but injections are given by three full time sisters forming part of the tuberculosis staff.

Clinic sessions are held twice weekly at the Special Treatment Centre at the Johannesburg General Hospital.

Showing the attendances during 1965:-

	<u>Cases</u>	<u>Contacts</u>	<u>Suspects</u>	<u>Totals</u>
First Visits	137	928	897	1,962
Re-visits	3,134	2,546	1,164	6,844

Showing/...



## Showing Outpatients receiving treatment:-

<u>Patients on Treatment as at 1.1.65</u>	<u>Patients put on Treatment during 1965</u>	<u>Patients taken off Treatment during 1965</u>	<u>Patients on Treatment as at 31.12.65</u>
644	132	189	587

## Showing cases receiving treatment in hospitals:-

<u>Hospital</u>	<u>Patients as at 1.1.65</u>	<u>Patients admitted 1965</u>	<u>Patients discharged 1965</u>	<u>Patients as at 31.12.65</u>
King George V	1	3	4	-
Oaktree	27	31	32	26
Rietfontein	8	52	50	10
Rosetta	3	4	6	1
<b>TOTAL</b>	<b>39</b>	<b>90</b>	<b>92</b>	<b>37</b>

Non-European Section

The management, control and treatment of Non-European patients follow the same pattern as for Europeans but on a much larger scale. Where and when possible all cases discovered are initially hospitalised. Cases with minimal or limited disease with negative sputa are treated at work, thus obviating all the financial, social and economic difficulties associated with the disease.

Summary of Tuberculin Tests, Vaccinations and X-rays Conducted at Medical School, University of Witwatersrand During 1965:-

<u>Class</u>	<u>Number in Class</u>	<u>No. of Heaf Tested and Read</u>	<u>% Negative Tuberculin Reactors and Vaccinated with B.C.G.</u>	<u>% Positive Tuberculin Reactors</u>	<u>% Positive Tuberculin Reactors X-rayed</u>
11 year Medical	125	120	22.5	77.5	48.3
11 year Dental	45	29	17.2	82.8	62.1
11 year Physiotherapy	22	22	18.2	81.8	59.1
11 year Occupational therapy	7	7	14.3	85.7	71.4
Logopaedics	1	1	-	100	100
Science Class	20	11	-	100	9.10
111 year Medical	108	102	22.5	77.5	36.3
111 year Dental	35	15	20	80	6.7
11 year Science	7	6	16.7	83.3	33.3
1V year Medical	94	68	30.9	69.1	32.4
V year Medical	107	71	9.9	90.1	38.0
	571	452	20.4	79.6	40.9

Initial/...



Initial and post hospital domiciliary treatment is given by the Bantu nurses employed by the Tuberculosis Section. Daily streptomycin injections on a domiciliary basis are avoided, and all cases requiring daily streptomycin are hospitalised with a few exceptions.

### X-ray Services

The following X-ray facilities are available:-

#### Waterval Hospital

Municipal employees attending the tuberculosis clinic at Waterval Hospital are the only cases routinely X-rayed. Other cases referred are those requiring special X-ray facilities, not provided by the 100 mm. Mobile Unit; large plates and tomography. The cases are referred from the following clinics:-

Eastern Bantu Township, Western Township, 18 Hoek Street and Riverlea.

#### 100 mm. Mobile Unit

This unit is almost exclusively used for routine X-ray diagnostic work and is made available in the townships and to the Charles Hurwitz S.A.N.T.A. Centre. Special views are referred to Mofolo South Clinic and Waterval Hospital depending upon the area from which they are referred.

#### South African National Tuberculosis Association, Johannesburg Branch 70 mm. Mass X-ray Mobile Machines

By arrangement with the above Association, this Department is responsible for the payment for all miniature X-rays done in the Johannesburg Municipal area. The service itself is supervised and controlled by the South African National Tuberculosis Association (S.A.N.T.A.). Non-European suspects were previously referred to Waterval Hospital for large X-rays but are now X-rayed by the 100 mm. unit. Europeans are referred either to their own doctors or to the Johannesburg Municipal Chest Clinic. Copies of letters posted to European suspects are submitted to this Department enabling it to check on all European suspects.

#### X-ray Services - Medical Examination Centre

This section operates three 70 mm. units, two for males and one for females. Each section has facilities for large films. The clinic not only caters for diagnostic purposes but conducts an active therapeutic outpatients department for tuberculosis patients working in the immediate surrounding area.

Asiatic/...

### Asiatic and Coloured Schools

A tuberculin skin testing campaign was conducted in 1962 amongst all Coloured and Asiatic schools in the Johannesburg area. All negative reactors were vaccinated with B.C.G. and positive reactors referred for X-ray examination of the chest. In 1963 no campaign was conducted and only the "new entrants" for the 1964 campaign were given B.C.G. without prior tuberculin testing. The same routine was adopted for 1965, i.e. new entrants were vaccinated without prior tuberculin testing, i.e. all grade 1 classes only. All children from standard 1 upwards were tuberculin tested by the heaf method and on the supposition that a positive reading of 3+ or 4+ may indicate the possibility of exposure to tuberculosis, those exhibiting such reactions were X-rayed by the 100 mm. unit. Seven Asiatic and thirteen Coloured schools were visited.

The following are the relevant statistics:-

	<u>No. X-rayed</u>	<u>Notified Cases</u>
Coloureds	2,639	139
Asiatics	536	23
TOTAL	<u>3,175</u>	<u>162</u>

The above 162 cases all exhibited radiological signs of uncomplicated primary tuberculosis and were treated at their respective schools.

### Sociological Services

Social workers attached to the staff, investigate all cases of tuberculosis, to obtain for them any assistance, financial or otherwise, that they may require. These officials work in close collaboration with the local branch of the South African National Tuberculosis Association thereby assisting the families of tuberculosis patients as well.

European patients receive pasteurised milk, Non-Europeans receive supplementary foodstuffs such as powdered high protein soups, kaffircorn meal, peanut butter and skimmed milk powder.

The following total quantities were issued during the year under review:-

Europeans:	23,923 pints of pasteurised milk.
Non-Europeans:	Peanut butter 157,763 lbs. - 12 oz. jars.
	Skimmed milk 166,599 lbs.
	Soup powder 39,240 lbs.
	Kaffircorn meal 74,235 lbs. - 3 lb. packets
	Full cream powdered milk 3,505 lbs.

The/...



The local branch of the South African National Tuberculosis Association received a R30,000 grant from the Council for relief work among the various racial groups.

Analysis of Expenditure for the Year 1965

	<u>Europeans</u>	<u>Coloured and Asiatics</u>	<u>Bantu</u>	<u>Total</u>
Rent	R2,278-00	R1,074-05	R 8-00	R 3,360-05
Food	R2,785-16	R2,793-30	R15,349-25	R20,927-71
Miscellaneous and Sundries R	531-70	R1,188-32	R 2,433-00	R 4,153-02
	<u>R5,594-86</u>	<u>R5,055-67</u>	<u>R17,790-25</u>	<u>R28,440-78</u>
Blankets				R 347-33
				<u>R28,788-11</u>

Showing the number of ambulatory patients receiving treatment at clinics or in their own homes during 1965:-

Township	Number of Patients			
	On Treatment as at 1.1.1965	Put on Treatment during 1965	Taken off Treatment during 1965	On Treatment as at 31.12.1965
18 Hoek Street				
Factory Workers	590	336	213	713
Domestics	834	424	354	904
Eastern Bantu Township	454	109	49	514
Moroka	2,075	886	930	2,031
Jabavu	749	355	612	492
Noordgesig	188	118	51	255
Orlando	958	347	590	715
Shantytown	643	264	506	401
Pimville	836	314	413	737
Western Township	378	228	91	515
Waterval Hospital	303	76	99	280
Medical Examination Centre	-	-	-	-
Mofolo (J.C.C.)	92	48	48	92
Riverlea	73	109	21	161
Iladi	1,110	585	1,060	6,635
TOTAL	9,283	4,199	5,037	8,445



Showing Clinic Attendances during 1965:-

Clinic	Cases		Contacts		Suspects		Total	
	1st Visit	Re-Visit	1st Visit	Re-Visit	1st Visit	Re-Visit	1st Visit	Re-Visit
18 Meek Street								
Factory Workers	318	21,051	57	14	946	467	1,321	21,532
Domestics	479	17,752	553	239	237	101	1,269	18,092
Eastern Bantu Township	97	4,410	106	193	36	15	239	4,618
Moroka	568	56,660	4,225	2,481	243	115	5,036	59,256
Jabavu	384	18,456	598	3,716	60	128	1,050	22,300
Noordgesig	67	9,077	665	1,463	576	472	1,308	11,012
Orlando	265	14,654	1,129	203	33	6	1,427	14,863
Shantytown	179	14,083	224	1,677	222	418	625	16,178
Pinville	129	12,573	349	1,053	44	26	522	13,652
Western Township	216	11,578	1,202	692	75	46	1,493	12,316
Waterval Hospital	45	2,458	21	60	19	67	85	2,585
Medical Examination Centre	530	621	-	-	974	53	1,504	674
Mofolo (J.C.C.)	9	588	36	41	1	12	46	641
Riverlea	63	5,529	116	251	192	154	371	5,934
Tladi	324	16,275	1,173	2,647	28	7	1,925	18,929
TOTAL	3,673	205,765	10,454	14,730	3,694	2,087	17,021	222,582

Showing the home visits by tuberculosis staff during 1965 compared with 1964:-

Clinic	Health Visitors		Domiciliary Staff	
	1965	1964	1965	1964
18 Meek Street				
Factory Workers	4	179	-	-
Domestics	2,690	2,362	536	543
Eastern Bantu Township	544	453	543	872
Moroka	2,133	1,437	10,745	9,927
Jabavu	448	1,114	4,155	4,796
Noordgesig	619	198	2,617	1,347
Orlando	782	740	5,420	4,326
Shantytown	344	401	5,009	4,268
Pinville	1,098	518	4,486	3,316
Western Township	209	85	872	888
Waterval Hospital	4	5	62	56
Medical Examination Centre	-	-	-	-
Mofolo (J.C.C.)	122	193	10	37
Riverlea	372	203	2,672	939
Tladi	552	147	3,978	665
TOTAL	9,921	8,035	41,105	31,980

Showing/...

Showing the number of patients treated in hospital during the year:-

Bantu Hospitals

Hospital	No. Patients in Hospital as at 1.1.1965	No. Patients Admitted during 1965	No. Patients Discharged during 1965	No. Patients in Hospital as at 31.12.1965
Knight's Chest	145	290	261	174
Rose Chest	195	418	425	188
Maverley Chest	171	421	380	212
Randfontein South Chest	77	60	100	37
East Rand Chest	2	1	3	-
W. End Kimberley	-	2	-	2
Dannhauser	1	1	1	1
King George V	3	5	5	3
Waterval	90	136	182	44
East Rand S.A.N.T.A. Settlement	8	7	11	4
Alexandra S.A.N.T.A. Settlement	2	8	9	1
Charles Hurwitz S.A.N.T.A. Centre	310	549	548	311
Rietfontein	80	321	260	141
Philadelphia	1	-	1	-
D.P. Meraie	1	-	1	-
M.J. Schultz	-	3	2	1
Groothoek	-	1	1	-
M.N. Wolfsohn	-	1	-	1
Tshepong	-	1	-	1
Barberton S.A.N.T.A.	-	1	-	1
Bothas Hill	-	1	-	1
Zonderwater	-	1	1	-
TOTAL	1,096	2,228	2,191	1,123

The following is a detailed statistical list of cases:-

100 mm. X-ray Unit

	R A C E	No. X-rayed			
		Cases	Contacts	Suspects	Total
Domestic	B	1,603	580	186	2,369
Factories	B	1,384	126	228	1,738
Riverlea	C	70	67	135	272
Western Township	C	379	131	34	544
Noordgesig	C	352	265	388	1,005
Shantytown	B	1,294	660	214	2,168
Pimville	B	944	321	15	1,280
Moroka	B	1,814	2,198	36	4,048
Jabavu	B	1,132	955	99	2,186
Orlando	B	1,675	969	95	2,739
Mofolo South	B	-	5	-	5
Tledi	B	1,791	1,264	24	3,079
Eastern Bantu Township	B	406	97	17	520
Charles Hurwitz	B	782	143	-	925
J.A.P.T.	B	212	26	780	1,018
Garment Workers	B	53	2	61	116
Ambulance Department	E	-	59	56	115
Schools	C	1	-	2,639	2,640
Schools	A	-	-	536	536
Schools	B	-	-	166	166
Non-European Affairs Dept. Staff	B	1	201	-	202
TOTAL		13,893	8,065	5,709	27,671

Mofolo/...

Mofolo South X-ray Unit

The following is the detailed statistical list of X-rays of cases, contacts and suspects taken at Mofolo South Clinic:-

	R A C E	No. X-rayed			
		Cases	Contacts	Suspects	Total
Shantytown	B	404	105	33	542
Pimville	B	541	197	18	756
Moroka	B	2,161	1,722	317	4,200
Jabavu	B	493	344	35	872
Orlando	B	402	229	6	637
Mofolo South	B	339	67	4	410
Tladi	B	613	518	14	1,145
Charles Hurwitz	B	651	15	2	668
TOTAL		5,604	3,197	429	9,230



Tuberculosis

The annual incidence and deaths per 100,000 population from all forms of tuberculosis are shown in the following tables:-

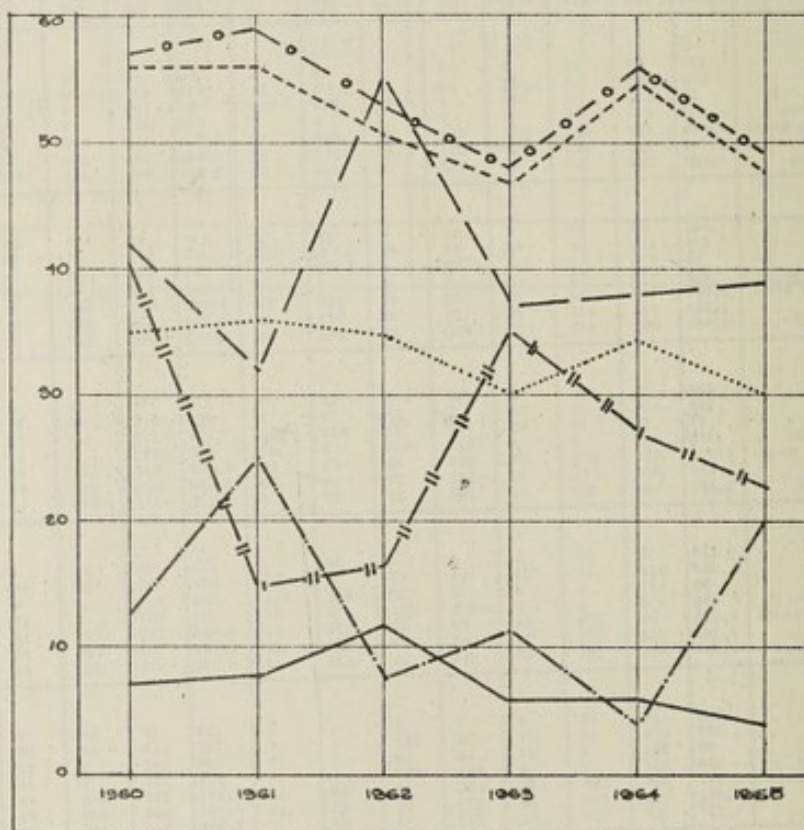
	Pulmonary				Non-Pulmonary				All Forms			
	Incidence		Deaths		Incidence		Deaths		Incidence		Deaths	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>1960</b>												
Europeans	136	37	17	5	18	5	8	2	154	42	25	7
Coloureds	142	331	10	23	32	75	5	19	174	405	18	42
Asiatics	24	101	2	8	1	4	1	4	25	106	3	13
Mining Bantu	77	263	7	24	Nil	Nil	5	17	77	263	12	41
Non-Mining Bantu	2,680	543	178	36	310	63	104	21	2,990	606	282	57
All Bantu	2,757	527	185	35	310	59	109	21	3,067	586	294	56
All Persons	3,059	319	214	22	361	38	126	13	3,420	357	340	35
<b>1961</b>												
Europeans	137	37	13	4	13	4	18	5	150	41	31	8
Coloureds	196	449	8	18	20	46	6	14	216	495	14	32
Asiatics	38	158	6	25	4	17	Nil	Nil	42	175	6	25
Mining Bantu	237	878	2	7	2	7	2	7	239	885	4	15
Non-Mining Bantu	2,499	494	181	36	213	42	115	23	2,712	536	296	59
All Bantu	2,736	514	183	34	215	40	117	22	2,951	554	300	56
All Persons	3,107	320	210	22	252	26	141	15	3,359	346	351	36
<b>1962</b>												
Europeans	142	38	15	4	15	4	28	8	157	42	43	12
Coloureds	236	523	20	44	18	40	5	11	254	563	25	55
Asiatics	60	233	1	4	1	4	1	4	61	237	2	8
Mining Bantu	242	938	1	4	1	4	3	12	243	942	4	16
Non-Mining Bantu	2,807	573	154	30	195	40	104	21	3,002	613	258	53
All Bantu	3,049	591	155	30	196	38	107	21	3,245	629	262	51
All Persons	3,487	364	191	20	230	24	141	15	3,717	388	332	35
<b>1963</b>												
Europeans	125	33	13	3	10	3	10	3	135	36	23	6
Coloureds	199	406	15	31	6	12	3	6	205	410	18	37
Asiatics	25	95	3	11	6	23	Nil	Nil	31	118	3	11
Mining Bantu	180	698	2	8	Nil	Nil	7	27	180	698	9	35
Non-Mining Bantu	2,957	601	169	34	143	29	67	14	3,100	630	236	48
All Bantu	3,137	606	171	33	143	28	74	14	3,280	633	245	47
All Persons	3,486	360	202	21	165	17	87	9	3,651	377	269	30
<b>1964</b>												
Europeans	120	32	10	2	4	1	14	3	124	33	24	6
Coloureds	218	419	14	27	14	27	6	12	232	446	20	38
Asiatics	53	197	1	4	6	22	Nil	Nil	59	219	1	4
Mining Bantu	90	408	2	9	Nil	Nil	4	18	90	408	6	27
Non-Mining Bantu	3,613	723	170	34	82	16	109	22	3,695	740	279	56
All Bantu	3,703	710	172	33	82	16	113	22	3,785	726	285	55
All Persons	4,094	418	197	20	106	11	133	14	4,200	428	330	34
<b>1965</b>												
Europeans	108	28	10	3	7	2	4	1	115	30	14	4
Coloureds	240	498	18	37	70	145	1	2	310	643	19	39
Asiatics	38	191	3	15	10	50	1	5	48	242	4	20
Mining Bantu	124	564	3	14	Nil	Nil	2	9	124	564	5	23
Non-Mining Bantu	2,517	508	165	33	155	31	80	16	2,672	539	245	49
All Bantu	2,641	510	168	32	155	30	82	16	2,796	540	250	48
All Persons	3,027	312	199	21	242	25	88	9	3,269	337	287	30

Death/...

DEATH RATE PER 100,000 POPULATION  
FOR ALL FORMS OF TUBERCULOSIS:

ALL RACES  
STERFTESYFER PER 100,000 VAN BEVOLKING  
VIR ALLE VORMS VAN TUBERKULOSE:  
ALLE RASSE

SYFER PER 100,000  
RATE PER 100,000



EUROPEANS	—————	BLANKES
COLOURED	—————	KLEURLINGE
ASIATICS	—————	ASIATIE
MINING BANTU	——  ——	BANTOE MYNIWERKERS
NON-MINING BANTU	—●—●—	BANTOES (NIE-MYNIWERKERS)
ALL BANTU	-----	ALLE BANTOES
ALL PERSONS	.....	ALLE RASSE

Notifications/...

# Notifications

For the year 1965 as compared with the year 1964:-

Tuberculosis	1965						1964					
	Pulmonary		Other Forms		All Forms		Pulmonary		Other Forms		All Forms	
	Local	Imported	Local	Imported	Local	Imported	Local	Imported	Local	Imported	Local	Imported
Coloured	240	22	70	3	310	25	218	13	14	-	232	13
Asiatic	38	6	10	-	48	6	53	7	6	-	59	7
Mining Recruits	-	-	-	-	-	-	197	580	-	-	197	580
Mining Bantu - Underground	82	11	-	-	82	11	59	17	-	-	59	17
Mining Bantu - Surface	42	4	-	-	42	4	27	3	-	-	27	3
Non-Mining Bantu	2,517	398	155	20	2,672	418	4,562	328	82	6	4,644	334
TOTAL	2,919	441	235	23	3,154	464	5,116	948	102	6	5,218	954

70 mm./....



70 mm. Mass X-ray Mobile Machines

Service supervised and controlled by the South African National Tuberculosis Association. Figures available for year 1965:-

	European	Non-European	Total
Total number miniature radiographed	20,740	38,684	59,424
Total number referred for large plates	247	1,274	1,521
Total number active cases	3	223	226
Total number inactive cases	11	357	368
Results not yet to hand	145	236	381
Unable to trace	3	46	49

70 mm. X-ray Units at Medical Examination Centre

Statistical data for year under review:-

	Male	Female
Total number miniature radiographed	90,095	10,950
Total number referred for large plates	2,085	143
Total number new cases notified	490	53
Percentage of cases	0.54%	0.48%

Dental Service at Mofolo South for Tuberculosics

	1965	1964	1963
Visits Group Inspection	2,314	2,778	1,289
Visits for Treatment	825	948	455
Extraction	1,297	1,348	628
Fillings	158	201	80
Other Treatment	99	99	-

(iv) Venereal Disease Service

The Department conducts venereal-disease clinics at a number of centres and at different times to ensure that treatment is available to all who need it. All examinations, treatments and investigations are free of charge.

Clinics/...

Clinics are conducted for Europeans at the Special Treatment Centre at the General Hospital with four sessions per week.

Non-European venereal disease cases are treated at one of the seven polyclinics in the Bantu Townships; at the Medical Examination Centre (attached to the Employment Bureau of the Non-European Affairs Department); the Non-European Hospital and at the Coronation Hospital. The tendency is to avoid set times for clinics and to treat cases as they appear.

Statement showing the number of cases dealt with at the various treatment centres during 1965 compared with the four preceding years:-

	1965		1964		1963		1962		1961	
	New Cases	Total Att.	New Cases	Total Att.	New Cases	Total Att.	New Cases	Total Att.	New Cases	Total Att.
Bantu Townships and Non-European Townships	3,450	26,331	2,321	16,920	2,427	15,551	2,084	13,740	2,018	15,694
Medical Examination Centre	1,814	6,375	1,639	5,058	1,046	2,741	846	2,075	628	1,945
Non-European Hospital	1,893	7,928	1,152	3,624	1,639	4,466	1,496	6,321	1,336	5,386
Coronation Hospital	485	1,861	461	1,318	522	1,443	741	3,124	672	2,810
General Hospital for Europeans	7,642	42,495	5,573	26,920	5,634	24,201	5,167	25,260	4,654	25,835
	645	2,296	526	1,409	559	1,300	416	1,170	565	1,833
	8,287	44,791	6,099	28,329	6,193	25,501	5,583	26,430	5,219	27,668

#### IV. MATERNAL AND CHILD HEALTH SERVICES

##### (a) MATERNAL HEALTH SERVICES

##### Supervision of Midwives

The Senior Health Visitor (Nursing Homes and Midwives) and her assistants supervise the activities of Midwives practising in the municipal area.

The Midwives on the list at the end of 1965 as compared with 1964 are as follows:-

<u>Race</u>	<u>1965</u>		<u>1964</u>	
	<u>Certifi- cated</u>	<u>Uncertifi- cated</u>	<u>Certifi- cated</u>	<u>Uncertifi- cated</u>
Europeans	115	1	107	1
Coloureds	14	-	16	-
Bantu	248	-	264	-
Asiatics	6	-	7	-
<b>TOTAL</b>	<b>383</b>	<b>1</b>	<b>394</b>	<b>1</b>

	<u>1965</u>	<u>1964</u>
Number of Midwifery Bags inspected	183	268
Number of Registers inspected	566	729
Number of Visits paid in connection with unnotified births	109	26
Number of Visits paid to Midwives in their homes	90	93
Number of Visits paid in connection with Midwifery cases	47	39
Maternal Deaths investigated	58	49
Puerperal Sepsis cases notified	24	46
Pemphigus Neonatorum cases notified	37	17
Ophthalmia Neonatorum cases notified	56	60
Visits in connection with infectious diseases	37	11

(b) CHILD HEALTH SERVICES - URBAN AREAS

(i) Home visiting

Preventive care of expectant mothers and pre-school children form the major part of the work of this section.



Home Visits paid

Race	Births Investigated		Home Visits	
	1965	1964	1965	1964
Europeans	9,056	9,424	50,745	49,636
Coloureds	2,118	1,931	11,613	10,415
Asiatics	113	408	*3,069	3,719
Bantu (central area)	644	873	2,352	2,070
TOTAL	11,931	12,636	67,779	65,840

\* The reduced figure is the result of the removal of Asiatics to Lenasia.

(ii) Child Health Clinics

Child Health clinics were conducted weekly as follows:-

27 for Europeans provided 33 sessions

4 for Coloureds provided 7 sessions

1 for Asiatics provided 1 session

1 for Bantu provided 2 sessions

1 Mobile clinic for Coloureds provided 5 sessions

1 Mobile clinic for Bantu provided 1 session

1 Mobile clinic for Immunisation provided 1 session

Attendances at clinics during 1965 were:-

<u>Race</u>	<u>1965</u>	<u>1964</u>	<u>1963</u>	<u>1962</u>
Europeans	90,716	86,482	87,333	81,158
Coloureds	41,627	35,703	36,351	12,557
Asiatics	5,370	6,813	8,329	5,602
Bantu (central area)	7,894	7,248	7,347	11,716
TOTAL	145,607	136,246	139,360	111,033

The/...

The following figures for the mobile van give some indication of the work done:-

Race	Clinic Attendances	Medical Examinations	Total Injections	Total Polio-Feeds
Coloureds	14,789	939	1,793	1,630
Asiatics	1,033	205	-	-
Bantu	3,396	156	719	719
TOTAL	19,218	1,300	2,512	2,349

(iii) Immunisation Services : Urban Areas

Immunisation against the preventable diseases was offered free of charge to the public throughout the year. These included diphtheria, whooping-cough, tetanus, smallpox and poliomyelitis.

The following table shows the total immunisations for the year:-

Type	European	Coloured	Asiatic	Bantu	Total
Diphtheria, whooping-cough tetanus completed courses	5,108	1,643	-	372	7,123
Diphtheria/tetanus completed courses	2,697	1,521	-	98	4,316
Boosters	6,230	636	-	24	6,890
Tetanus completed courses	2,545	193	-	461	3,199
No. of injections	37,078	11,188	-	2,646	50,912
Others - Typhoid, etc.	32	-	-	107	139
Vaccinations	40,322	19,900	508	4,577	65,307
<u>Oral Poliomyelitis</u>					
First Feed	12,614	3,790	341	728	17,473
Second Feed	12,308	3,639	283	568	16,798
Third Feed	11,632	3,374	278	469	15,753
Booster Feed	734	70	2	4	810
Total Feeds	37,288	10,873	904	1,769	50,834

Immunisation/...

### Immunisation required for International Travel

The service was provided by the State Department of Health, who had delegated District Surgeons to do the work. As the District Surgeon in Johannesburg was overworked and understaffed, it was decided to incorporate this service into the general immunisation service for Europeans provided at the City Health Department. Since the opening of this clinic here on 23 May 1965, the following immunisations were given:-

Smallpox	20,349
Yellow fever injections	6,342
Other injections, e.g. Typhoid, Cholera	1,163
<b>TOTAL</b>	<b>27,854</b>

#### (iv) Medical Examinations

The medical officers attempted to examine every new born infant brought to the clinic, so that any abnormality or failure to thrive could be corrected as soon as possible. The following medical examinations were carried out:-

<u>Race</u>	<u>1965</u>	<u>1964</u>
Europeans	9,376	8,996
Coloureds	2,905	3,029
Asiatics	802	814
Bantu (urban areas)	371	335
<b>TOTAL</b>	<b>13,454</b>	<b>13,174</b>

#### (v) Nursery School Medical Services

Routine medical supervision of the children in 49 subsidised nursery schools in Johannesburg was carried out as follows:-

<u>Race</u>	<u>New</u>	<u>Re-visits</u>	<u>Total</u>
Europeans	1,426	2,151	3,577
European municipal	152	251	403
Non-Europeans	120	426	546
<b>TOTAL</b>	<b>1,698</b>	<b>2,828</b>	<b>4,526</b>

Total/...



## Total immunisation procedures in school children:-

Type	European	Coloured	Asiatic	Bantu	Total
Diphtheria/tetanus completed courses	1,381	522	-	91	1,994
Boosters	3,194	250	-	16	3,460
Tetanus completed courses	2,189	180	-	15	2,384
Number of injections	13,289	2,281	-	346	15,916
Others - Typhoid, etc.	-	-	-	-	-
Vaccinations	3,192	2,905	327	37	6,461
<u>Oral Poliomyelitis</u>					
First Feed	3,607	721	-	93	4,421
Second Feed	3,607	730	-	91	4,428
Third Feed	3,053	683	-	90	3,826
Booster Feed	-	-	-	-	-
Total Feeds	10,267	2,134	-	274	12,675

(vi) Municipal Nursery Schools and Day Nurseries

The City Health Department conducts five nursery schools for Europeans and two day nurseries for Bantu.

The average enrolment and attendances at the European schools were as follows:-

	<u>Average Enrolment</u>	<u>Average Attendance</u>
La Rochelle Nursery School	44	35
Judith's Paarl Nursery School	44	34
Vrededorp Nursery School	58	48
Fordsburg Nursery School	59	48
Newlands Nursery School	42	33

V. MEDICAL SERVICES IN BANTU AREAS

The established comprehensive medical services comprising curative and preventive aspects were continued by the seven polyclinics and the master tuberculosis clinic. In addition the municipal promotive and preventive clinic in Tladi township was completed, thus providing separate sections for the tuberculosis and child health and health visitor services in this area.

(a) Outpatient/...

(a) OUTPATIENT AND MIDWIFERY SERVICES

These services are conducted on behalf of the Transvaal Provincial Administration which has subsidised them since 1958 pending the take over of executive responsibility. The first phase of the approved five year take over schedule was completed in January 1965 by the expansion of the Tladi Provincial Polyclinic from a pediatric outpatients to a fully operative curative and midwifery service.

Reallocation of staff displaced by the consequential rezoning of Jabavu Clinic was carried out with a minimum retrenchment of casual personnel.

The curative and midwifery service was maintained at an efficient level throughout the year despite the pressures of increased patient attendances occasioned by the introduction of a patient screening system at Baragwanath Hospital and by the natural increase in the population served.

Analysis of the curative and midwifery services reveals 561,076 attendances at outpatient clinics, 59,580 attendances at ante-natal clinics and 12,808 district maternity calls. In February a tariff of charges for ambulance removals was introduced whereby patients were made responsible for the costs of removal from their homes to Baragwanath Hospital or to the polyclinics but are transported without charge from the polyclinics to hospital or to their homes on the instruction of a medical officer. The ambulance service provided is efficient and satisfactory.

An assessment of case loads for midwives in the various Bantu townships is shown in the following table:-

Township	No. of Midwives Including A.N.C. & Admin. Staff	No. of Notified Births for Area	Case Load	% of B.B.A's
Eastern Bantu Township	2	69	34.5	14.49
Jabavu	21	1,957	93.19	43.28
Moroka	42	4,436	105.61	46.28
Noordgesig	3	191	63.66	14.13
Orlando	14	1,251	89.35	33.01
Pimville	13	1,156	88.92	34.68
Shantytown	10	706	70.6	22.23

A.N.C. = Ante-natal Clinic.



Of a total of 26,490 notified Bantu confinements which occurred within the Municipal area 12,906 or 48.72% took place in Provincial or private maternity hospitals.

(b) CHILD HEALTH SERVICES

This service which deals with all preventive health matters affecting the family including child health routine immunisation procedures, investigation of kwashiorkor, mental health and social problems is now fully operative throughout Soweto. As the service becomes more firmly established greater fields of responsibility become apparent. In the first three months of 1965 at the behest of the State Department of Health an extensive vaccination campaign against smallpox was successfully completed. In May a campaign was planned where 22,840 children were given diphtheria/whooping-cough/tetanus vaccine 61,293 diphtheria/tetanus and 127,830 vaccinated against smallpox. The full campaign was concluded in 13 working days. The field work of the two research projects, i.e. the prevalence of kwashiorkor and a mental health survey were completed by the staff of the health visitor service during the year, and the information obtained therefrom is at present being collated for publication at a future date.

Eighty-four percent of all notified births were vaccinated with B.C.G. vaccine within three months of birth.

(c) DENTAL SERVICES

The dental services provided at Orlando, Pimville, Mofolo South and Eastern Bantu Township have been maintained. The number of clinics and the staff establishment are inadequate to meet the needs of the population. The inclusion of a dental room in the proposed Provincial polyclinic at Senaoane may signify that at a future date Transvaal Province will assume responsibility for the treatment of dental pain, haemorrhage and sepsis and so allow the municipal clinics to concentrate on preventive dental care which is rightly the responsibility of the local authority.

The following table reflects the work done during the year 1965 as compared with the previous 5 years:-

Type of Treatment	1965	1964	1963	1962	1961	1960
Anaesthetics	1	-	-	4	-	6
Fillings	5,371	2,890	2,750	2,944	4,062	3,479
Scalings	85	151	148	285	180	238
Extractions	51,612	47,629	40,488	42,850	43,610	31,962
Number of Patients	40,832	37,936	33,860	34,894	35,782	27,255

(d) Pre-school/...



(d) PRE-SCHOOL INSTITUTIONS

The crèche medical inspection service was continued during 1965. An Inspectress of Pre-school Institutions has been appointed to promote the wellbeing of all children attending pre-school institutions.

Arbitrary standards regulating the registration, establishment and conduct of pre-school institutions have been laid down by the Department and accepted by the Department of Bantu Administration and Development. Accordingly, all existent crèches which have been established in unsuitable premises must move to premises complying with these standards or close by the end of 1966. Voluntary organisations have made considerable progress towards providing suitable approved premises.

All/...

## ALL IMMUNISATIONS DONE IN BANTU AREAS

YEAR ENDED 31 DECEMBER 1965

IMMUNISATION SYSTEM	POLIO	D.W.T.	D.T.	SMALLPOX	B.C.G.	OTHERS
Health Visitor Service Immunisations at Clinics	82,549	43,589	9,192	176,389	-	10,874
Health Visitor Service Immunisations at Home	11,695	-	1	546	15,702	-
Health Visitor Service Immunisations Crèche or School	2,310	328	1,321	1,749	-	-
CAMPAIGNS						
D.W.T., D.T., Smallpox, Soweto 10.5.1965 - 26.5.1965	-	22,840	61,293	127,830	-	-
TOTAL IMMUNISATIONS	96,554	66,757	71,807	306,514	15,702	10,874

Curative/...



CURATIVE AND MIDWIFERY SERVICES IN THE BANTU AREAS  
YEAR ENDED 31 DECEMBER 1965

	Clinic Attendances										Home Visits						Confinements Attended					
	Medical and Surgical					Ante-Natal					Seen By M.O.	Medical and Surgical					Ante-Natal		Post- Natal Total	De- liver- ies	False Alarms	Total Attend- ed
	First Visit	Re- Visit	Total	First Visit	Re- Visit	Total	First Visit	Re- Visit	Total	First Visit		Re- Visit	Total	First Visit	Re- Visit	Total						
Eastern Bantu Township	5700	2424	8524	623	972	1595	1528	-	-	-	-	328	840	1168	99	15	114	1386	61	8	37	106
Jabavu	42133	49408	91541	2651	10641	13292	4609	-	-	-	-	774	3092	3866	2118	1761	3879	35032	1134	820	632	2586
Moroka	90005	80774	170779	5135	17441	22576	5058	-	-	-	-	3292	16705	19997	2268	6285	8553	99124	2623	2271	1301	6195
Noordgesig	12919	6429	19348	288	1287	1675	437	1	-	1	1	755	182	937	176	36	212	3494	148	23	66	237
Orlando	63948	84406	148374	1271	6660	8391	2409	-	-	-	-	2554	8370	10924	668	989	1657	23148	859	411	433	1703
Pineville	25432	33032	58464	1417	3662	5079	2444	-	-	-	-	1692	1525	3217	633	388	1021	15538	731	365	119	1215
Shantytown	37680	26366	64046	1198	5774	6972	6968	13	3	16	16	1569	3225	4894	713	804	1517	12615	536	165	65	766
TOTAL	277237	283239	561076	13043	46537	59580	23453	14	3	17	17	10964	34039	45003	6675	10278	16953	150337	6092	4863	2653	12808

Health/...

HEALTH VISITOR SERVICES

YEAR ENDED 31 DECEMBER 1965

CLINIC	CHILD HEALTH CLINIC															INFANTS REFERRED TO	
	ATTENDANCES			FEEDING			DIETARY ASSISTANCE				M.O.	IMMUNISATIONS					
	1st V.	Re V.	Total	Breast	Partial	Arti- ficial	FCN	SKM	PNB	Vits		C.H.M.O.	Polio	D.W.T.	Smallpox		
E.B.T.	183	3,662	3,845	475	1,190	2,180	4,654	2,972	657	-	-	209	133	1,292	322	7,126	-
Jabavu	1,278	25,963	27,241	331	10,324	16,386	40,361	39,162	5,054	-	-	549	157	15,847	7,062	37,880	-
Moroka	2,395	44,013	46,408	1,890	16,274	28,244	69,696	66,321	7,135	-	-	18,774	1,942	23,809	12,280	48,129	-
Orlando	2,078	23,408	25,486	3,304	4,868	17,314	27,402	30,389	1,601	-	-	143	106	8,135	4,862	27,691	-
Pietermaritzburg	753	19,175	19,928	410	9,792	9,726	21,944	18,390	4,947	-	-	1,241	655	6,472	2,980	9,485	1
Shantytown	695	14,252	14,947	563	5,978	8,406	17,109	14,313	1,636	-	-	2,850	726	5,755	2,224	9,777	-
Tladi	1,337	26,106	27,443	288	11,144	16,011	37,503	40,002	5,872	1	600	263	21,239	13,859	45,101	115	4
TOTAL	8,719	156,579	165,298	7,261	59,570	98,467	218,669	211,549	26,902	1	24,366	3,282	82,349	43,589	176,389	116	8

CLINIC	HOME VISITS																	
	VISITS				Ante-natal	Protec- ted Infants	Deaths Under 1 Year	Wasted Visits	Total Home Visits	IMMUNISATIONS				REFERRALS				
	1st V.	Re V.	Total	Polio						Small- pox	B.C.G.	D.W.T.	D.T.	Others	Child Health Clinic	Hospit- al	Social Worker	Other Organ- isations
E.B.T.	320	133	463	9	-	18	39	502	-	-	251	-	55	20	-	-		
Jabavu	2,879	4,599	7,478	105	-	10	2,688	10,166	3,572	34	2,408	-	1	856	-	4		
Moroka	6,158	1,886	8,044	3	-	112	3,885	11,932	1,726	309	5,044	-	-	6,176	25	13		
Orlando	2,016	735	2,751	-	-	6	935	3,686	518	-	1,801	-	-	2,217	-	24		
Pietermaritzburg	1,584	2,106	3,690	-	-	2	1,358	5,048	420	-	1,174	-	-	1,552	-	7		
Shantytown	1,356	1,861	3,217	-	-	7	1,129	4,346	911	186	997	-	-	1,057	-	3		
Tladi	4,861	3,740	8,601	22	-	36	2,126	10,727	4,548	17	4,027	-	-	1,974	103	225		
TOTAL	19,184	15,060	34,244	139	-	191	12,163	46,407	11,695	546	15,702	-	1	13,885	148	276		

Health/...

HEALTH VISITOR SERVICES  
YEAR ENDED 31 DECEMBER 1965

CLINIC	BIRTH AND STILL BIRTH INVESTIGATIONS				
	Live Births	Still Births	METHODS OF FEEDING		
			Breast	Partially Breast	Artificial
E.B.T.	320	1	303	13	4
Jebavu	2,675	38	2,192	338	145
Moroka	5,147	91	4,505	529	113
Orlando	1,731	1	1,321	231	179
Pinville	1,274	40	1,061	181	32
Shantytown	1,049	21	936	77	36
Tladi	4,368	123	3,766	401	141
TOTAL	16,564	315	14,084	1,770	650

HEALTH VISITOR SERVICES  
YEAR ENDED 31 DECEMBER 1965

CLINIC	CRÈCHES AND SCHOOLS							
	No. Examined	IMMUNISATIONS				NO. REFERRED TO		
		Polio	D.W.T.	D.T.	Smallpox	Dentist	Hospital	Other Organisations
E.B.T.	13	9	190	55	23	-	-	-
Jebavu	-	184	6	52	454	-	-	-
Moroka	524	233	-	-	42	209	-	-
Orlando	-	-	-	-	-	-	-	-
Pinville	113	367	27	150	1,216	-	-	-
Shantytown	1,358	1,370	105	1,064	14	4	1	2
Tladi	280	147	-	-	-	-	-	4
TOTAL	2,288	2,310	328	1,321	1,749	213	1	6

VI. Medical/...



# VI. MEDICAL EXAMINATION CENTRE

This centre was established to conduct all medical examinations associated with the Bantu Labour Employment Bureau, (for males and females) conducted by the Non-European Affairs Department at 80 Albert Street. A bureau for females was opened at 1 Polly Street and separate medical facilities were provided by the City Health Department as from 1 April 1961

## Summary of work done (male and female sections)

	<u>Male</u>	<u>Female</u>	<u>Total</u>
Workseekers Examined	114,735	16,286	131,021
Foodhandlers Examined	485	*	485
Daily Paid Municipal Examinations	5,979	33	6,012
Pension Fund Examinations	185	57	242
Medically Unfit - Temporary	697	10	707
- Permanent	859	7	866
Vaccinations for Smallpox	92,348	25,497	117,845
Miniature X-rays Taken (70 mm.)	90,095	10,950	101,045
Number of Cases for Large X-ray	2,085	143	2,228
Pulmonary Tuberculosis Notifications	490	53	543
Q.K. Taken	675	9,460	10,135
Vi Taken	667	9,441	10,108
Cases of Gonorrhoea	201	32	233
Cases of Syphilis (New Cases)	249	1,565	1,814
Cases of Pediculosis	3	1	4

\* All females are considered as foodhandlers and are included under heading of workseekers.

# VII. SANITATION AND FOOD SUPPLIES

## (a) GENERAL

The activities of the Sanitation Division continued to function and expand and no insurmountable difficulties arose during the year.

The standard of environmental hygiene has been generally satisfactory and no large scale insect infestations have occurred.

Careful/...

Careful attention was paid to the hygienic handling, preparation and distribution of foodstuffs, and large quantities of foodstuffs were condemned. All unsound game and poultry seized and condemned at the market was destroyed at the municipal abattoirs. Weekly water sampling was carried out at municipal reservoirs and at points on distribution mains.

During the latter part of the year, bacteriological analyses of water supply from municipal reservoirs and distribution mains were found unsatisfactory, this possibly being due to water shortage and continued drought. Additional samples and check samples were taken and all necessary action by means of additional chlorination of such waters was carried out. Over the final two weeks of the year an improvement regarding the bacteriological standard of the water supplies was noticeable.

The "General Sanitation" fish mongers and fish friers and meat by-laws were promulgated and correction notices and amendments were promulgated in respect of the meat by-laws.

During the year 1,170 persons were prosecuted for various contraventions of the Public Health Act, the Foods, Drugs and Disinfectants Act, the Council's Public Health By-laws and other public health legislation.

The sources of the city's main milk supply are in the southern Transvaal and northern Free State farming districts. Only a small percentage of the total demand is produced in the city area. A close watch has been kept on all deliveries of milk into the city. Two veterinarians on the staff of the Abattoir and Livestock Market Department work in close collaboration with the farm dairy inspectors, their main function being the supervision of dairy herds. Details of the number of tests made for mastitis, brucellosis and tuberculosis are given in Annexure 1. Fuller details of inspections on dairy herds are recorded in the Annual Report of the Director, Abattoir and Livestock Market Department.

Measures for the control of pests have increased during the year. The number of visits by inspectors and the premises treated have increased. The number of rodents caught have decreased. The decrease in the number of rodents caught is probably due to climatic conditions in that the weather pattern was unfavourable and possibly the public awareness of the dangers associated with rodent infestation and the greater use of anti-coagulant rodenticides.

Slum clearance is now jointly controlled by the City Council and the Department of Community Development. Owing to the housing shortage, action in most cases has been restricted to vacant properties and the total number of slums dealt with has fallen considerably.



A schedule of all tests taken in respect of the maintenance of public health will be found in Annexure 1. The work of this division is further analysed in the tables that follow.

#### Bantu Areas

The division is responsible for the environmental health services in the Bantu townships to the south west of Johannesburg under the control and jurisdiction of the City Council. It is also accountable for the services in the Eastern Bantu Township within the municipal area and of the Coloured townships of Bosmont, Coronationville, Noordgesig, Riverlea, Riverlea Extension No. 1 and Western Township. It is responsible for the control and prevention of plague in and around the southern boundaries of the city and in and around the outskirts of these townships, including the Bantu townships of Meadowlands and Diepkloof, extending from Roodepoort in the west to the boundaries of Germiston to the east, an area of some 120 square miles.

Two new crèches provided with all the necessary accommodation and ancillary facilities were erected at Orlando West and at Zola. The use of dwellings for crèches in many townships is deprecated. No private enterprise in this sphere should be permitted to operate until proper accommodation and facilities are available.

Sewerage reticulation has been progressively maintained with the development of the new townships. There are now 24 miles of sub or main outfall sewers, 15 miles of 12" or above 12" diameter sewers and 422 miles of 10", 8" and 6" throughout this complex. Sewerage has been instituted to all premises with the exception of Pimville, which will shortly be dis-established, a few privately operated mission schools and a number of trading and residential sites. This is really a noteworthy achievement.

With the exception of Pimville and a few dwellings in Dube, all dwellings are provided with a water stand pipe over a gully connected to the sewer and in many of the owner occupied homes, the supply has been extended to the inside of the dwelling.

Public latrines are provided at Mofolo North and Zola.

Four sites have been allocated for the stabling of goats in Orlando West, but numerous sheep and goats are herded on the boundaries of the Soweto township by farmers in the neighbourhood, for the purpose of sale.

Whilst diseases of a serious nature do not usually arise from the consumption of goat and sheep flesh, additional measures are necessary to prohibit the slaughter of the animals, other than for strictly religious and ceremonial observances.

Stringent/...



Stringent precautionary measures against rodents have been maintained in and around the boundaries of the townships and to the south of the metropolis. The area is reasonably free from infestation. Deratisation of dwellings and shops is a continuous operation and each dwelling is inspected and treated at least once a year. Heavy domestic rodent infestation occurs constantly in those townships adjoining built-up Bantu townships of other local authorities.

Innumerable hawkers and pedlars exposing their wares undeterred, are to be found in main thoroughfares and open spaces in the vicinity of railway stations, bus stops and beer halls. The storage of the foodstuffs so sold, gives rise to concern, whilst the litter from these hawkers constitutes a major problem.

#### (b) CITY MILK SUPPLIES

The average daily consumption within the municipal area for the four quarters of the year was as follows:-

		<u>Gallons per day</u>	
		<u>1965</u>	<u>1964</u>
1 January	to 31 March	71,642	54,285
1 April	to 30 June	68,529	60,210
1 July	to 30 September	64,009	63,197
1 October	to 31 December	69,725	66,334

These figures exclude deliveries to Government Departments, Provincial hospitals and institutions or for commercial purposes to such premises as creameries.

In the area, the following milk shops and milk shop sub-depots existed as at 31 December 1965:-

Pasteurisation Plants	20
Milk Shops - (Raw Milk)	-
Milk Shops sub-depots	214
Producer/Distributors	2
TOTAL	<u>236</u>

#### (c) ABATTOIR AND MEAT INSPECTION

The Abattoir is controlled by the Director of the Abattoir and Livestock Market which functions as a separate department. The distribution and sale of meat in the city is controlled by the City Health Department.

Slaughtering/...

Slaughtering and meat inspection activities during the year were as follows:-

Number of Animals Slaughtered:-

	<u>1965</u>	<u>1964</u>
Cattle	378,900	375,639
Sheep	1,202,082	1,059,019
Calves	54,775	/ 58,260
Equines	15,232	12,172
Pigs	191,087	180,790

Inspection of Imported Meat:-

Meat	24,447,309 lbs.	21,809,063 lbs.
Offal	2,948,226 lbs.	2,024,553 lbs.

Viscera Inspected:-

Ox Tongues	25,042	42,232
Ox Tails	40,249	54,554
Ox Kidneys	3,631	9,467
Ox Hearts	18,485	42,454
Ox Livers	36,319	58,197

Carcasses Condemned and  
Processed in the By-  
product Plant:-

Cattle	5,339	6,097
Pigs	4,156	5,662

The principal disease which accounted for the condemnation of carcasses was

Cysticercosis - Cattle	0.56%
- Pigs	1.23%

Number of Tons of Meat

<u>Condemned:-</u>	2,290.534	2,715.014
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Dairy/...



Dairy Herd Inspections:-

	<u>1965</u>	<u>1964</u>
Number of Cattle inspected	65,361	52,668
Number of Herds inspected	875	541
Percentage of Samples showing Mastitis Contamination	16.3%	13.4%
Number of Notifications to producers regarding contaminations of milk supplies with Brucellosis and Mastitis	719	538
Number of Biological Tests for Tuberculosis	2,161	2,136
Number of Bulk milk samples tested for Brucellosis	2,161	2,136
Number of positive Brucella Ring Tests	529	737
Number of positive Brucella Agglutination Tests	97	116
Number of Bulk milk samples tested for Mastitis	3,640	3,473
Number of positive Mastitis tests	595	443
Number of Bulk milk samples tested for Tuberculosis	2,161	2,136
Number of positive Tuberculosis tests	9	3
Number of Bulk milk samples tested for Antibiotic Contamination	2,199	1,555
Number of Tests positive for Penicillin	30	30

Condemned Meat:-

Five main causes for the Condemnation of meat during the year ended December 1965 -

	%	%
<u>Cattle:-</u> Cysticercosis	0.56	0.59
- Pleurisy and Peritonitis	0.23	0.31
- Gangrene	0.18	0.19
- Bruising	0.09	0.10
- Pneumonia	0.07	0.08
<u>Sheep:-</u> Fever	0.10	0.09
- Pneumonia	0.02	0.02
- Emaciation	0.02	0.02
- Icterus	0.01	0.01
- Gaseous Lymphadenitis	0.01	0.007

Pigs/...



Pigs:-

	1965	1964
	%	%
- Cysticercosis	1.23	2.00
- Gangrene	0.19	0.22
- Pleurisy and Peritonitis	0.14	0.19
- Scrotal Sepsis	0.14	0.18
- Tuberculosis	0.12	0.20

Municipal Market

Early morning inspection of foodstuffs exposed for sale at Municipal Market were maintained on all days that the market opened. The following tables indicate the quantities examined and condemned:-

	Number Examined		Number Condemned	
	1965	1964	1965	1964
<u>Furred Game</u>				
Blesbok	427	705	2	4
Springbok	477	496	2	1
Kudu	8	32	4	-
Wildebeest	4	-	-	-
Impala	101	150	7	4½
Rhee Buck	6	1	-	-
Warthog	8	5	1	-
Hares	3	-	-	-
Waterbuck	-	4	-	-
	1,034	1,393	16	9½
<u>Feathered Game</u>				
Guinea Fowl	868	1,151	40	9
Partridge	5	-	-	-
Pheasant	-	93	-	2
	873	1,244	40	11
<u>Poultry</u>				
Dressed Birds	25,336	42,610	601	663
Live Birds	272,885	294,456	-	-
	298,221	337,066	601	663

Other/...

Other Foodstuffs

Inspections covering wholesale and retail stores handling foodstuffs in the city, resulted in the issue of condemnation certificates for the following quantities of foodstuffs:-

	<u>1965</u>	<u>1964</u>
	lbs.	lbs.
Canned Foodstuffs	23,067	22,349
Fresh Fruit	8,400	24,000
Dressed Poultry	33	278
Fresh Fish	852	977
Sundry Foodstuffs	4,305	13,435
<b>TOTAL</b>	<u>36,657</u>	<u>61,039</u>

Samples of food are taken mainly for the purpose of checking on possible adulteration in terms of the Food, Drugs and Disinfectants Act. The samples taken are recorded on Annexure 1.

VISITS, ETC. MADE BY HEALTH INSPECTORATE STAFF  
YEAR ENDED 31 DECEMBER 1965  
COMPARED WITH YEAR 1964

	<u>1965</u>	<u>1964</u>
<u>BUILDINGS</u>		
Repairs	835	178
Illegal	2,766	883
<u>CLOSETS AND URINALS</u>		
Inspected	7,021	8,242
Add., Provided	177	44
<u>VARIOUS PREMISES</u>		
Factories	4,633	4,409
Business Buildings	2,421	2,303
Dwellings Routine Visits	10,168	10,870
Dwelling Survey	162,731	164,050
Interviews	26,999	29,371
Bantu Housing	435	351
<u>NUISANCES</u>		
Service Complaints	1,688	621
Stormwater	70	90
Fumigations	394	1,145
Wells	29	17
French Drains	21	17

Animals/...

<u>NUISANCES (Contd.)</u>	<u>1965</u>	<u>1964</u>
Animals	507	852
Manure	485	305
Drainage	3,619	3,602
Refuse	15,181	17,350
Waste Water	482	469
Stables	1,148	75
Fly	99	82
Rats	12,449	9,815
Poultry	4,198	3,647
Unspecified	5,448	4,443
Vermin	766	654
Smoke	140	65
Mosquitoes	42	72

INFECTIOUS DISEASES

Investigated	2	9
Isolation of Contacts	-	4

LICENSED PREMISES

Asiatic Eating Houses	8	48
Aerated Water and Ice Factories	323	329
Dairies	3	5,060
Ice Cream Factories	1,269	919
Bakeries	1,198	1,258
Boarding Houses	1,345	1,159
Barber Shops	2,496	1,983
Bioscopes	442	441
Butcheries	11,466	9,981
Garages	1,633	1,292
Hotel Dining Rooms	3,076	2,648
Bantu Eating Houses	1,802	1,073
Laundries	2,096	1,400
Milkshops	7,497	6,490
Noxious Trades	8,641	8,591
Pedlars and Hawkers	1,557	1,321
Private Cows	41	45
Restaurants	10,240	9,354
Tea Rooms	3,922	4,273
General Dealers	49,554	42,258
Nursing Homes	93	91
Lodging Houses	55	56
Cowsheds	5,602	72

GENERAL

Phosphatase Tests	576	373
Inspection Food Handling	1,343	954
Sediment Tests Taken	5,140	4,321
Bacteriological Samples Taken	10,119	9,054
Food Poisoning Investigation	16	9
Food Samples Taken	1,534	3,897
Water Samples Taken	1,012	1,022
Inspection Milk Purveyors	-	9
TOTAL (A)	399,053	383,816

Summary/...



<u>SUMMARY</u>	<u>1965</u>	<u>1964</u>
Total Visits (A)	399,053	383,816
Demolitions and Conversions	213	258
Pest Control Overseers Visits	184,568	147,632
 TOTAL	 583,834	 531,706

NOTICES, ETC.

Court Hours	2,606	2,227
Statutory Notices	19,573	22,261
Other Notices	2,269	2,696
Reports	1,834	1,388
Market Hours	428	336

NUMBER OF COMPLAINTS RECEIVED FROM THE GENERAL  
PUBLIC AND DEALT WITH BY THE HEALTH INSPECTORATE  
DURING THE YEAR ENDED 31 DECEMBER 1965  
AS COMPARED WITH 1964

<u>NATURE OF COMPLAINT</u>	<u>1965</u>	<u>1964</u>
Rodents	865	905
Mosquitoes	27	41
Vermin	163	301
Drainage	541	550
Dirty Premises	189	40
Dirty Water Closets	29	33
Insanitary Conditions	338	556
Water Supply (Cut Offs)	20	28
Stormwater Drainage	9	29
Manure Nuisances	6	1
Fly Breeding	43	36
Refuse	616	651
Poultry Nuisances	154	195
Water Closets Not Working	69	133
Food Premises or Food Handling	77	3
Unsound Foodstuffs	65	74
Tea and Coffee Carts	-	20
Hawkers	2	17
Smell Nuisances	224	330
No Builders Pails	12	29
Structural Defects	11	85
Keeping of Animals	7	25
Condition of Vacant Stands	177	92
Milk Complaints	2	9
Sundry Complaints	397	598
 TOTAL	 4,043	 4,781

PEST CONTROL INSPECTIONS, ETC. AND RODENTS CAUGHT OR RETRIEVED  
YEAR ENDED 31 DECEMBER 1965 AS COMPARED WITH 1964

	District Health Inspectors		PEST CONTROL OVERSEERS			
			Town		Country	
	1965	1964	1965	1964	1965	1964
Premises inspected for rodent infestation	2,368	2,319	113,113	75,928	71,455	71,704
Anti-rodent measures carried out without notice	597	529	-	-	-	-
Re-inspections and interviews	1,330	1,305	-	-	-	-
Rodent proofing notices served	489	447	-	-	-	-
Block Surveys	3	3	5,218	3,299	-	-
Number of visits to premises treated or trapped	-	-	16,275	14,356	30,542	31,357
Supervision of premises gassed	2	4	-	-	-	-
Separate premises gassed	-	-	4	7	29,939	30,637
Premises treated with I.I.F.A. machine	-	-	83	86	-	-
Municipal premises treated on order from other departments	-	-	24	47	-	-
Batch Specimens sent to South African Institute for Medical Research	-	-	-	-	-	-
Rodents	-	-	459	455	49	86
Fleas (batches)	-	-	-	-	37	30

RODENTS CAUGHT OR RETRIEVED

	TOWN		COUNTRY		TOTAL	
	1965	1964	1965	1964	1965	1964
Rattus Rattus (domestic rat)	3,031	3,374	4,419	6,346	7,450	9,720
Mastomys (multimammate mouse)	3	-	31	50	34	50
Tatera (gerbille)	-	-	940	3,719	940	3,719
Mus Musculus (house mouse)	44	22	11,518	12,547	11,562	12,569
Rhabdomys (striped mouse)	68	62	19	35	87	97
Veld Rodents (otomys, vlei rat)	2	13	1	-	3	13
Dwarf Shrews	-	3	-	-	-	3
White Rats	28	-	-	20	28	20
	3,176	3,474	16,928	22,717	20,104	26,191

NOTE The total number of rodents destroyed in the Rodent Free Belt around Johannesburg is far in excess of this as large scale gassing of rodent burrows takes place without retrieving the dead rodents. The use of P3 (poison traps) also considerably reduces the number of dead rodents actually retrieved.

Details/...

DETAILS OF PROSECUTIONS INSTITUTED - YEAR 1965

AS COMPARED WITH YEAR 1964

Details of Offence	No. of Charges		Fines Imposed	
	1965	1964	1965	1964
<u>SANITATION AND NUISANCES</u>			R	R
Dirty Premises, closets, etc.	228	95	133	662
Vermineous Premises	3	4	32	16
Refuse and Refuse bins	12	6	68	30
Fly breeding and Manure	12	2	55	-
Insufficient Sanitary Accommodation	31	50	635	466
Fumigation	-	4	-	16
Water Supply	3	2	26	2
Rodents or Harborage	424	206	2,015	905
Other Prosecutions	65	71	450	253
Court Orders - Structural Repairs	7	38	-	45
Poultry Nuisances	73	23	329	48
Sheds and Garages	67	45	334	162
Keeping of Animals	13	30	53	66
Unsatisfactory Storage	-	1	-	10
<u>MILK AND ICE CREAM</u>				
Below standard or adulterated	37	36	505	549
Visible dirt	8	66	76	994
Dirty clothing or no overalls	2	5	5	28
Other Prosecutions	18	29	137	231
No card of authority	2	2	17	10
Dirty premises or equipment	6	3	43	20
Marks and Merchandise Act	5	2	17	24
Trading without a licence	5	20	35	91
Milk purveyor selling in bottles	2	9	20	40
<u>MEAT</u>				
Dirty premises or equipment	5	7	35	84
Unsound or unstamped	7	21	56	232
Dirty clothing or handling	3	2	14	15
Exposed to contamination	2	6	15	56
Other Prosecutions	50	45	529	495
<u>BREAD</u>				
Dirty clothing or handling	5	5	10	22
Exposed to contamination	9	20	26	123
Other Prosecutions	10	6	73	42
<u>OTHER FOODS</u>				
Below standard	6	5	50	59
Exposed to contamination	102	78	652	591
Dirty premises or equipment	137	130	1,449	1,322
Dirty clothing or handling	96	45	512	277
Other Prosecutions	137	87	885	500
Unsound foodstuffs	1	3	20	20
<b>TOTAL</b>	<b>1,593</b>	<b>1,209</b>	<b>9,311</b>	<b>8,504</b>
<u>SUMMARY</u>			1965	1964
Total number of Persons Prosecuted			1,170	994
Total number of Charges			1,593	1,209
Total Fines Imposed			R9,311	R8,504

Report/...



# REPORT ON ENVIRONMENTAL HEALTH SERVICES IN BATHU TOWNSHIP

PERIOD 1 JANUARY TO 31 DECEMBER 1965

INSPECTIONS, NUISANCES, NOTICES SERVED

PEST CONTROL, INSPECTIONS, ETC.

## PEST CONTROL PERSONNEL

Inspector 1  
Overseers 6  
Labourers 34

TOWNSHIP	BUILDINGS				GENERAL												FOOD							Infectious Diseases		Notices Served				Pre-inspections		Pest Control Inspections
	Inspections	Repairs	Illegal	Survey	Animals	Closets	Drainage	Fumigations	Manure	Poultry	Refuse	Rodents	Stop Water	Unspecified	Vermin	Interviews	Inspections	Sampling	Bacteriological	Specimens	Sediment Tests	Handlers	Investigations	Contacts	Vaccinations	Statutory	Others	Under Public Health By-Laws	Under Public Health Act	Court House	Premises	
Pietermaritzburg	100	2		9989	31	1091			3		110	19				507										464	91			38	2177	318
Eastern Bantu Township				2736	37				42		184	21				267										267	66	2	20	645	339	
Orlando East	67		86	14428	39	2	10		37	221	284	1033	60	51		2207										2110	5	78	29	147	5919	3049
Orlando West and Extension	1171	74	38	12256	29	12			4	921	1288	1461	1	160		2107										2059	240			181	9452	4092
Jabavu	10			6177	4				1	97	111	395				738										677	218	9	2	20	5027	1427
Dube	265	147		5811	11				6		115		4			431										466	14	191	97	1952	1516	
Mofolo Central	90			2843							58					323										297	23	29	53	1303	3720	
Moroke North	13	10	3	2272						70	34	106		6		99										82	3	2	5	477	193	
Central Western Jabavu	39			6291						87	122	422				800										348	270	1	28	60	2095	940
Mofolo North	46			3250												353										331	16	29	44	1631	788	
Molepo	148	30		4247						38	319	296	25			360										360	14	6	21	1523	561	
Moletsane	192	9	2	4513	4	3			2	56	151	228				243										232	12	15		1028	526	
Tladi	19	2		4614		9				24	300	246				444										380	15	5	6	16	13	
Mofolo South	16			3336						94						413										398	8	1	17	883	376	
Dhlanini	60	13	25	5076						110	38	192	3			343										343	3	18	10	50	1468	970
Chiwelo and Extension	194	31	71	9928						192	111	290	63			561										561	3	28	17	83	2085	1463
Zondi	454	54	6	3339	7	17			32	84	166	321	51			324										271	28	28	29	1566	774	
Phiri	42	6		4231						25	219	158	17			170										170	2			2396	731	
Senesane	14	19		2936						48	23	287	62	2		137										154	13		14	1650	577	
Masetile	129	17		4701						22	352	225	24			284										284	9	4	21	2726	920	
Jabulani	179	28	7	3943	7				43	55	152	221	54			223										259	2	15	11	2164	793	
Naledi	7			4903						1	25	285	152			334										317	19	5	10	4252	1223	
Zola	13	16	2	15438	136	102				179	73	85	5			769										473	22	2	43	6873	2401	
Endeni	7			5560					45	362	198					324										368	13	4	10	2974	909	
Moroke	26	42	1	5097			2			96	62	564	8	14		157										167	19	13	59	2525	1104	
Dube Hostel						99					14					6										8	12	8			13	12
Nancefield Hostel																39	546															
Jabulani Hostel																12																
George Goch Hostel																																
General						6	2																									
TOTAL	3200	799	243	147915	205	1332	29		171	2203	4987	1218	377	236		12965	546	45	40							12037	901	789	441	1029	58217	28335

Report/...

REPORT ON ENVIRONMENTAL HEALTH SERVICES IN BANTU TOWNSHIPS

PERIOD 1 JANUARY TO 31 DECEMBER 1965

TRADING - BUSINESS PREMISES AND INSPECTIONS

TOWNSHIP	Bakeries		Butcheries		Fish Friers		Fruit and Vegetable shops		General Dealers in Non-foods		General Dealers in Groceries		Hewers		Ice-cream Vendors		Lawn-Milk Sheds		Restaurants					
	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections	Existing	Inspections				
Pieterville	6	152	21	435	6	274	26	305	14	187	37	906			2	4	3	215	3	334				
Western Bantu Township																								
Eastern Bantu Township	1	1	2	38			2	21	1	3	4	73		4			1	15	1	20				
Orlando East	1	30	29	195	5	96	20	198	2	166	43	387			8	2	7	6	52	11	99			
Orlando West and Extension	5	14	27	171	13	115	35	202	48	361	47	354		116	1	9	17	9	79	12	150			
Jebavu	2	10	20	210	3	33	12	295	32	229	24	480		3		1	4	4	43	5	45			
Dube	3	9	5	166	2	71	5	46	1	9	3	25		98		2	6	2	71	5	90			
Moroko Central	1	12	7	64	4	42	11	126	13	78	14	167		34		2	4	1	12	9	54			
Moroko North			2	29	1	17	1	20	1	11	3	52		3							15			
Central Western Jebavu			5	227	1	23	4	300	7	207	9	514					2	67	3	63				
Moroko North	2	18	3	54	2	7	5	45	16	75	7	67					1	10	7	41				
Molepo			4	44	3	34	5	51		6	10	100					4	41	2	20				
Moletsane	1	3	8	29	1	15	2	47	1	35	6	81			1	3					6			
Tladi			7	29	2	9	7	26	3	69	7	48					2	10	3	15				
Moroko South	2	22	2	22	1	11	2	22	2	11	55	4	44				1	12	2	11				
Shilamsi	1	4	2	43	1	20	2	58	3	38	6	141		27			1	16	2	17				
Chiwelo and Extension	2	5	8	106	4	51	3	88	8	67	10	277		30			1	26	2	36				
Zondi			1	8	35	3	10	6	38	4	43	9	66				4	39	4	9				
Phiri			6	42	1	11	8	28	6	6	9	82					1	6	1	7				
Canadans	1	3	9	248	2	19	2	30	1	48	7	83					1	15	3	21				
Mapetle	1	3	9	47	2	22	3	61	5	12	12	123		16							7			
Jabulani	1	11	4	32	3	16	6	39	1	39	9	40					2	16	2	10				
Naledi	1	8	6	39	1	5	9	59	8	49	16	119					2	20	3	20				
Zola			37	171	2	14	11	180	2	146	26	230		21			1	13	4	37				
Endeni	1	14	6	73	1	18	6	74	8	41	11	120					1	14	3	34				
Dube Hostel	2	21	2	16	2	46	1	24	4	13	1	15					2	6			52			
Nancefield Hostel	1	66	1	44	1	40	1	44	3	34	1	47					1	19			51			
Jabulani Hostel	1	4	1	6	1	4	1	6	3	4	1	6					1		1		6			
Moroka	2	4	4	39	4	49	6	66	13	121	14	157		3			1	11	4	29				
George Sech Hostel	1	15							2	5	1	16		9							68			
TOTAL	39	430	245	2,655	72	1,076	202	2,499	7	48	253	2,173	356	4,989	330	1	9	8	10	70	51	102	132	1,367

Report/...

REPORT ON ENVIRONMENTAL HEALTH SERVICES IN BANTU TOWNSHIPS

PERIOD 1 JANUARY 1965 TO 31 DECEMBER 1965

BIRTHS AND DEATHS REGISTERED  
INFECTIOUS DISEASES NOTIFIED

TOWNSHIPS	BIRTHS REGISTERED		DEATHS REGISTERED		INFECTIOUS DISEASES NOTIFIED													
	Normal Births	Still Births	Under 1 Year	Over 1 Year	Ty-phoid	Diph-theria	Tubercu-losis	Cerebro-spinal Meningitis	Puer-eral Sepsis	Ery-sipelas	Ophthal-mia Neonatorum	Polio-myelitis	Leprosy	Small-pox	En-cephalitis	Pemphi-gue Neonatorum	Kwashi-orkor	Malaria
Piaville			15			4	196	1	1	1	9		1				95	
Eastern Bantu Township							76										14	
Orlando East			3			1	233		2		11						63	
Orlando West and Extension			2			4	182		1		10						62	
Jabavu			2				211		1		3		1				73	
Dube							95		1		4						13	
Mofolo Central			2			1	76		2								24	
Moroka North						1	100		1				2				28	
Central Western Jabavu							24		1								24	
Mofolo North			1				80				1						28	
Molepo							53		1		1						12	
Moletsane			1				59				1						21	
Tladi							70				1						13	
Mofolo South							40										6	
Dhlanini							53					1					24	
Chiswelo and Extension			5				90		1		2		1				41	1
Zondi			1			2	54						1				30	
Phiri						1	100			1							33	
Sensone			1				65										32	
Mcetile			1				69		2								25	
Jebulani			1			2	84		2		1						55	
Naledi			1			1	128		2		2						38	
Zola			1			2	235		2		1		1				251	
Endeni			1				73		1								128	
Moroka																		
Central and Western Jabavu			2								1						11	
City																	1	
Klipspruit 49																	1	1
Bosmont			2			1											1	
Coronation							13											
Newclare			1				34											
Noordgeest			1				71		1		2						1	
Riverlea						1	46											
Western Township			3			1	141				2						8	
TOTAL			46	22		22	2,773	1	19	3	52	1	7				1,157	2

VIII. Disposal...



# VIII. DISPOSAL OF WASTES

## (a) REFUSE DISPOSAL

The bulk of refuse is disposed of by controlled tipping (1,185 tons daily) and a small proportion by incineration (5.5 tons daily). Refuse is collected twice weekly at domestic premises and twice per week or daily at business premises.

## (b) SEWAGE WASTES

With the exception of Pimville, which will shortly be disestablished, a few privately operated mission schools and a number of trading and residential sites, sewerage has been instituted to all other premises. This is a noteworthy achievement.

The average daily sewage flow for: Klipspruit is 28 million gallons per day; Olifantsvlei is 10.5 million gallons per day; Northern Works is 16.5 million gallons per day.

The average number of pails of night soil removed nightly is 1,392 pails, and the number of conservancy tanks in operation as at the end of the year was 80.

# IX. WATER SUPPLIES

The city's water supply is maintained by the Rand Water Board, the main source being the Vaal River. The demand for water has increased year by year as indicated by the following table for the last 6 years:-

	<u>Average</u> <u>Daily Consumption</u>	<u>Water purchased from</u> <u>Rand Water Board</u>
1960	47,416,000 gallons	17,384,000,000 gallons
1961	48,990,000 gallons	19,320,203,000 gallons
1962	57,710,400 gallons	21,119,275,000 gallons
1963	59,813,508 gallons	21,393,399,000 gallons
1964	61,717,859 gallons	22,890,268,000 gallons
1965	68,310,000 gallons	24,943,973,000 gallons

The Council has 14 service reservoirs and nine water towers including two of each type in the Bantu areas.

#### X. LABORATORY BRANCH

The Department's main laboratory is at Cydna with subsidiary laboratories at the various sewage purification works, the Bantu Beer Brewery, the power stations and the Gas Works.

Most of the general analytical and bacteriological work is done at Cydna but some of it is delegated to other laboratories.

The more important tests are shown on Annexure 1.

The following schedules show the activities of the branch:-

Klipspruit/...

KLIPSBRUIT WORKS - ANALYTICAL DATA - ANNUAL AVERAGES 1 JANUARY - 31 DECEMBER 1965

AVERAGE DAILY FLOW 28,733,000 GALLONS

Composite Samples taken hourly from 8 a.m. to 7 a.m.	Settled Solids	Suspended Solids	Total Dissolved Solids	P.V. 4 Hours (Bettendorff)	P.V. 4 Hours (S.A.B.S.)	B.O.D.	C.O.D.	Nitrogen as			Alkalinity as CaCO <sub>3</sub>	Chlorine	Phosphates as PO <sub>4</sub>	Sodium as Na	Antonie Detergent as Hexanol	pH	Fecal coli per 100 ml
								Free Ammonia	Albuminoid Ammonia	Nitrate							
Untreated Sewage	8.9	-	-	87.9	-	-	770	34.2	10.5	-	-	93	-	-	9.5	7.1	-
Settled Sewage	0.9	-	-	69.0	-	285	528	32.5	5.9	-	229	92	18	-	8.1	7.2	-
UNIT 1																	
Primary Humus Tank Effluent	0.8	-	-	28.7	-	35	194	20.6	4.0	3.6	193	84	-	-	7.1	7.5	-
Influent to Secondary Filter	0.5	-	-	33.2	-	-	203	29.2	2.8	-	187	87	-	-	-	7.2	-
Secondary Humus Tank Effluent	0.2	35	-	22.2	-	19	127	9.6	2.0	17.5	101	91	-	-	5.9	7.4	-
Sand Filter Effluent	-	6.9	560	18.5	14.9	7	94	9.7	1.5	14.7	108	95	17	86	4.8	7.3	1,200,000
UNIT 11																	
Primary Humus Tank Effluent	1.4	-	-	35.1	-	46	224	23.1	3.7	1.1	209	93	-	-	7.5	7.5	-
Influent to Secondary Filter	1.1	-	-	53.2	-	-	395	30.8	5.3	-	222	93	-	-	7.8	7.4	-
Secondary Filter Effluent	-	-	-	32.0	-	42	226	20.5	3.6	1.9	199	92	-	-	7.3	7.6	-
IRRIGATION RUNOFF																	
Homesstead Farm	0.1	-	-	19.9	-	13	-	5.0	1.0	0.8	203	164	5	-	-	9.6	-
Hazzington Spruit	-	-	-	25.8	-	17	-	12.8	1.6	0.4	264	134	14	-	-	7.7	-

Northern...



AVERAGE DAILY FLOW 15,166,000 GALLONS

Composite Samples taken hourly from 8 a.m. to 7 p.m.	Settleable Solids	Suspended Solids	Total Dissolved Solids	P.V. 4 Hours (Bottle)	P.V. 4 Hours (5.A.9.5.)	B.O.D.	C.O.D.	Nitrogen as				Alkalinity as CaCO <sub>3</sub>	Chlorine	Phosphates as PO <sub>4</sub>	Antonie Detergent as Monoxol	Sodium as Na	pH	Faecal coli per 100 ml
								Free and Saline Ammonia	Organic (KJ)	Nitrite	Nitrate							
Untreated Sewage	10.4	-	-	58.0	-	-	-	29.6	16.5	-	-	225	61	28	15.4	-	7.1	-
<b>SOUTH UNIT</b>																		
Influent to Sedimentation Tank	15.9	-	-	80.8	-	-	-	29.7	25.4	-	-	231	61	28	18.7	-	7.2	-
Settled Sewage	Trace	-	-	38.5	-	181	-	29.7	9.4	-	-	236	60	27	15.8	-	7.3	-
Primary Humus Tank Effluent	Trace	-	-	26.9	-	64	-	24.3	7.7	1.1	0.5	210	60	24	-	-	7.6	-
Secondary Humus Tank Effluent	Trace	13.2	-	15.0	-	14	-	3.2	2.8	0.1	29.0	31	57	23	-	-	7.0	-
Sand Filter Effluent	-	6.7	471	12.9	10.1	-	98	2.6	2.2	0.2	27.8	32	59	22	10.8	91	7.0	125,000
<b>NORTH UNIT</b>																		
Influent to Sedimentation Tank	12.9	-	-	82.7	-	-	1,085	40.0	24.4	-	-	272	64	32	20.2	-	7.3	-
Settled Sewage	Trace	-	-	46.0	-	197	460	39.7	12.3	-	-	276	63	32	17.0	-	7.4	-
Primary Humus Tank Effluent	Trace	-	-	23.5	-	33	180	28.2	6.2	1.1	43	236	62	28	-	-	7.7	-
Secondary Humus Tank Effluent	Trace	-	-	18.1	-	16	140	8.6	3.9	0.2	35.6	34	62	27	-	-	7.0	-
<b>MATURATION PONDS</b>																		
Start of Irrigation Furrow	Trace	-	-	18.2	-	15	-	7.5	3.3	0.2	32.5	39	61	26	14.2	-	6.8	3,800,000
End of Irrigation Furrow	-	-	-	11.6	-	6	-	5.3	1.5	-	26.2	52	57	27	8.4	-	7.0	75,000
Final Dam Outlet to River	-	-	450	10.5	8.7	6	75	1.7	1.8	-	20.5	52	64	17	5.4	94	8.7	260
<b>UKSKEI RIVER</b>																		
Before entry of Effluent	-	-	700	-	18.0	-	125	4.2	4.2	-	19.7	69	77	2	0.5	80	7.6	4,600
After entry of Effluent	-	-	524	-	9.9	-	67	1.7	1.8	-	21.0	57	66	15	4.1	78	8.0	1,100

SOUTH UNIT:- Pseudo Recirculation  
NORTH UNIT:- Double Filtration

Olfantsvlei/...

OLIFANTSDIET WORKS - ANALYTICAL DATA - ANNUAL AVERAGES 1 JANUARY - 31 DECEMBER 1965  
AVERAGE DAILY FLOW 10,667,000 GALLONS

Composite Samples taken hourly from 8 a.m. to 7 p.m.	Settleable Solids	Suspended Solids	Total Dissolved Solids	P.V. 4 Hours (Bretsch)	P.V. 4 Hours (S.A.B.5.)	B.O.D. 5 days	C.O.D. 5 days	Nitrogen as			Alkalinity as CaCO <sub>3</sub>	Chlorine	Phosphate as PO <sub>4</sub>	Sodium as Na	Antonie Detest- gents as Monoxol	pH	Faecal coli per 100 ml
								Free and Saline	Ammonia	Nitrate							
Untreated Sewage	7.4	-	-	47.1	-	-	-	-	-	-	216	54	-	-	9.7	6.9	-
Influent to Sedimentation Tanks	10.6	-	-	66.9	-	-	730	38.3	10	-	223	55	-	-	11.1	6.9	-
Settled Sewage	0.5	-	-	37.3	-	190	410	35.1	6.3	-	221	56	17.6	-	9.2	7.0	-
Primary Humus Tank Effluent	0.5	-	-	21.3	-	38	183	31.4	3.7	1.0	215	55	18.9	-	10.4	7.2	-
Secondary Humus Tank Effluent (Maturation Pond Influent)	0.5	44	485	15.1	12.4	14	117	12.3	2.0	23	91	57	22	59	8.6	7.0	-
MATURATION PONDS																	
Effluent	Nil	-	-	9.4	8.1	5	75	8.5	1.1	13.6	89	59	20	-	5.5	7.5	290,000
KLIP RIVER																	
Above Works	Nil	-	-	5.3	-	-	-	3.3	0.6	6	-	71	-	-	-	6.3	1,200
Below Works at Jackson's Drift	Nil	-	920	-	3.0	2.6	16	0.3	0.2	12	-	106	-	92	-	7.4	60

FIGURES ARE FOR EXPERIMENTAL HIGH RATE UNIT

Air/...

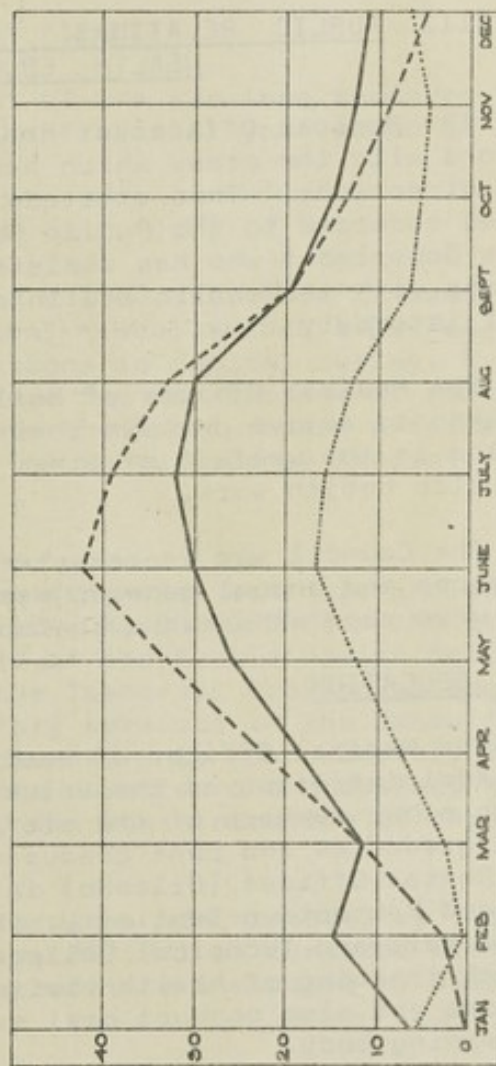
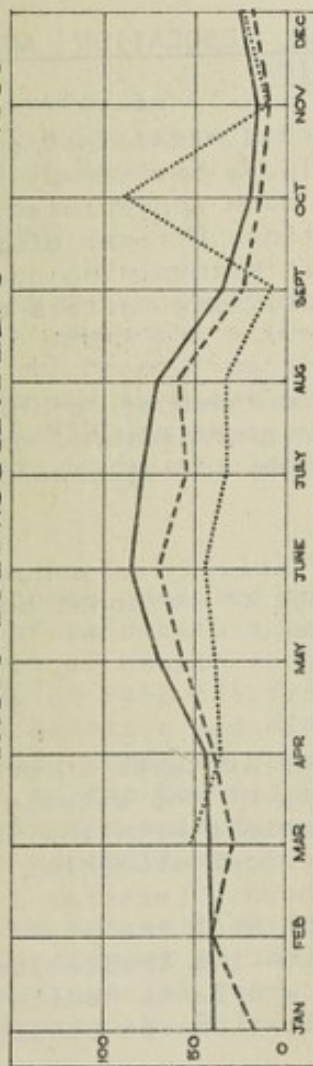
Air Pollution Measurements

A change was made in 1965 in the units used for reporting smoke measurements. The measure of smoke concentration is now recorded as "Soiling Index". The new unit is not strictly comparable with the old unit. In addition sulphur dioxide is now reported as micro-grammes per cubic metre, replacing the old milligrammes per cubic metre. Consequently the graphs relating to previous years have been omitted and only the 1965 results are shown.

Air/...



# AIR POLLUTION MEASUREMENTS — 1965 LUGBESOEDELINGSGEGEVENS — 1965



## X1. PUBLIC CONVENIENCES

The Department maintains and controls 107 public conveniences for the use of both sexes of all races. During the year two conveniences for the use of Non-Europeans of both sexes were opened to the public in the Von Brandis Street Parking Garage.

It is expected that public conveniences will be incorporated in future in all shopping centres which will be erected in the municipal area.

## X11. CREMATION OF DECEASED PERSONS

Cremations in the Braamfontein Crematorium numbered 1,816 during the year. An increase of 119 over the previous year.

## X111. PUBLIC RELATIONS, FORMAL EDUCATION AND HEALTH EDUCATION

The Medical Officer of Health has maintained good relations with the press which has always been ready to assist in all directions. This attitude is much appreciated. Thanks are also recorded to the Public Relations Officer of the Town Clerk's Department who has assisted in maintaining good relations with the public and in publicising matters of special topical interest.

The Medical Officer of Health and members of his staff have taken an active part in their own professional organisations and in the welfare of other bodies actively associated with public health work.

The Council was represented officially at a number of conferences and annual general meetings of national bodies. Papers were read at various conferences.

### FORMAL EDUCATION

The Medical Officer of Health is lecturer in Urban Health Administration at the University of the Witwatersrand and with other members of the staff assists with the teaching of undergraduates and post graduate medical students. The Senior Dental Officer (Orlando) is Honorary Lecturer in Public Health and Protective Dentistry. Members of the staff assist the Witwatersrand Technical College with the theoretical and practical training of health visitors and Bantu health inspectors and also conduct oral examinations on behalf of the examining body.

## HEALTH EDUCATION

A member of this section lectured to fourth year medical students as well as to both European and Non-European student health visitors. 5,762 visits were made by members of the section to bakeries, hotels and boarding houses, restaurants and tea rooms, fish friers, food factories, Non-European restaurants, nursing and old age homes and sports clubs.

Swabbing to determine the bacteriological standard of equipment and utensils at premises serving the public was conducted regularly throughout the year.

All plans involving food premises received by this Department for approval, are submitted to this section for comment in the kitchen layout and other improvements deemed necessary to facilitate the production of clean food.

## XIV. FINANCE

A schedule of the cost of the services rendered by the City Health Department for the financial year ended 30 June 1965, is shown on Page 73.

### EXPENDITURE

The expenditure on the various services is made up of salaries, wages and allowances, miscellaneous expenses, loan charges and revenue contributions to capital outlay. Expenditure on those services provided for Non-Europeans, amounting to R1,886,979 was passed on to the Non-European Affairs Department to be charged to the Bantu Revenue Account.

### INCOME

Income detailed on the financial schedule includes refunds of expenditure totalling R1,062,180 from the State Department of Health in terms of the Public Health Act, and a subsidy of R452,666 from the Transvaal Provincial Administration for curative and midwifery services in the Bantu townships. The subsidy referred to represents only approximately 83% of the cost to the Council of the curative and midwifery services, due to the non-acceptance by the administration of certain items of expenditure.

The net cost of the services administered by the City Health Department increased by R87,741 as compared with the previous financial year. Expenditure increased by R30,495 and income dropped by R57,246.

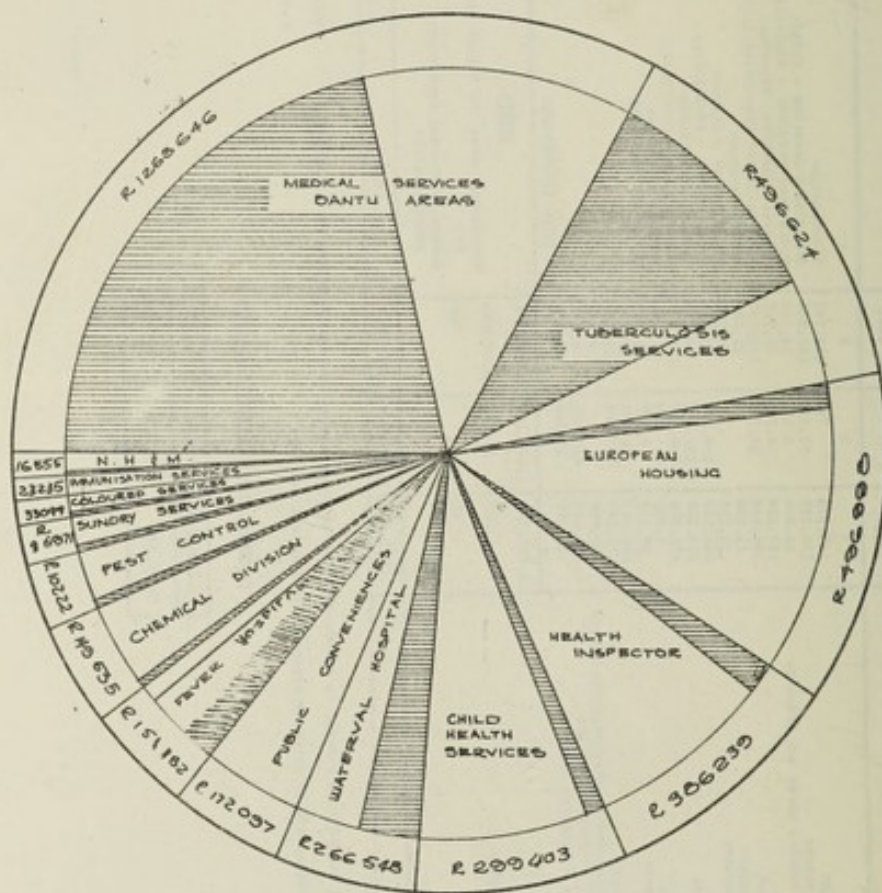
The/...



The rise in expenditure is attributed mainly to increases in salaries, wages and allowances (R22,000) and miscellaneous expenses.

The decrease in income arose chiefly in the Fever Hospital (R25,000) and Waterval Hospital (R21,000) and is due to the fact that these hospitals are operating on a more limited basis as a result of the closing of certain wards in each hospital.





• GROSS EXPENDITURE ON VARIOUS HEALTH SERVICES •

SHADED AREAS REPRESENT SUBSIDIES AND PART REFUNDS  
RECEIVED FROM PROVINCIAL AND CENTRAL GOVERNMENTS

FINANCIAL YEAR 1964/65



SAMPLES SUBMITTED FOR TESTING

Annexure 1

Details of Tests	S.A.I.M.S.					Abattoirs					Council					Government					Staff of				
	1963	1964	1965	1966	1967	1963	1964	1965	1966	1967	1963	1964	1965	1966	1967	1963	1964	1965	1966	1967	1963	1964	1965	1966	1967
<b>A. BACTERIOLOGICAL, PATHOLOGICAL, ETC.</b>																									
<b>1. Tuberculosis</b>																									
Sputum (direct)	45,618	43,007																							
Culture	2,237	844																							
Sensitivity	210	159																							
Biological (guinea pig inoculation)	32	13																							
Other	428	107																							
<b>2. Serological</b>																									
Syphilis	22,452	24,402																							
Rh Factor	14,129	16,442																							
T.M.X. (complement)	170	53																							
C.C. Complement Fixation	5	6																							
Bilharzial Complement	1	2																							
Viral and Rickettsial	8	11																							
Toxoplasmin and Leptospiral	-	6																							
Other	8,595	11,520																							
M.A.	3,864	5,129																							
<b>3. Bacteriological Counts</b>																									
Water (Municipal supply)	129	45																							
Water (Private boreholes)	107	73																							
Milk or Milk Products	12	12																							
Ice Cream	1,140	891																							
Water Ices	117	183																							
Food Handling Equipment and Eating Utensils	1,862	1,939																							
Other	2	-																							
<b>4. Bacteriological Examinations</b>																									
Blood Culture	89	69																							
Sputum and Exudates (culture)	109	82																							
Antibiotic Sensitivity	5	31																							
Scarlet Fever and Diphtheria Contacts	265	214																							
Typhoid Stools and Urine	2,181	1,109																							
Swabs for K.L.S.	1,232	2,024																							
Swabs for H.S.	345	1,029																							
Hospital Hygiene	2,085	1,278																							
Food Specimens (suspected food poisoning)	8	3																							
Food Specimens (not for food poisoning)	41	48																							
Vomit	-	1																							
Stools and Urine	139	65																							
Swabs from Persons	239	209																							
Swabs from Food Utensils or Equipment	2	3																							
Other	360	533																							
<b>5. Parasitological</b>																									
Blood (Malaria, etc.)	11	3																							
Stools Amoeba	34	44																							
Stools Bilharzia	9	22																							
Urine Bilharzia	96	28																							
Urine Microscopic	26	8																							
Other	79	65																							

6. Rodents/...

Details of Tests	S.A.I.M.R.		Abattoirs Labora- tory	Council Labora- tories	Government Chemical Labora- tories	Staff of C.H.D. (Field Tests)
	1965	1964				
6. <u>Rodents and Fleas</u>						
Rodents (Plague)	367	354				
Rodents (Rickettsiae)	147	208				
Fleas (P. Pestis)	41	31				
7. <u>Chemical</u>						
Blood	89	584				
Urine	79	187				
C.S.F.	80	93				
Other	304	138				
8. <u>Cell Counts</u>						
C.S.F.	92	73				
Blood	639	510				
Other	251	56				
9. <u>Immunity Tests</u>						
Pollionyelitis	14	24				
Diphtheria	15	21				
Other	1	3				
10. <u>Virus Culture</u>						
Stool	5	120				
Blood	4	-				
11. <u>Misgeopathology</u>						
12. <u>Pregnancy Tests</u>	13	2				
13. <u>Insects, Snails, etc.</u>	87	74				
14. <u>Identifications</u>	-	3				
15. <u>Other</u>	7	-				
16. <u>Milk</u>	294	61				
Pasteurised and Certified Creams				427		
Pasteurised Milk				1,718		
Raw Milk				2,473		
Powdered Milk				-		
Milk				81		
Milk Fat and Solid not Fat Standards					13	
17. <u>City Milk Supplies</u>					695	
Sacteriological and Biological Tests	8,971	7,900	3,640	3,235		
Mastitis						
Biological Tests for Tuberculosis			2,161	2,136		
Brucellosis			2,161	2,136		
Tests			2,139	1,950		
Antibiotics						

Details of Tests	S.A.I.W.R.		Abattoirs Laboratory		Council Laboratories		Government Chemical Laboratories		Staff of C.H.D. (Field Tests)	
	1963	1964	1965	1966	1965	1964	1965	1964	1965	1966
18. <u>Fees Delvy Demonstration Van</u>									1,364	30,591
									31	406
									31	399
									30	359
									259	2,556
19. <u>All Producing Districts</u>									1,097	940
									2	1
20. <u>Milk Samples</u>									576	373
									4,033	3,380
21. <u>Food Samples</u>										
Miscellaneous										
Meat										
Honey										
Bread										
Milk Powder										
Tinned Foodstuffs on behalf of Medical Officer of Health										
Milk on behalf of Medical Officer of Health										
22. <u>Water Supplies</u>										
Municipal Reservoirs										
Boreholes										
23. <u>Bantu Beer</u>										
Miscellaneous										
Corn Malt										
Bantu Beer										
Huake										
Iron Content of Beer										
Grits										
Miscellaneous										
C. MISCELLANEOUS										
24. <u>Air Pollution Control</u>										
Shog										
25. <u>Sewage Samples</u>										
Northern Works										
Klipspruit										
Oifentavlei										

26. Water/ ...



Details of Tests	S.A.I.W.A.		Abattoirs Labora- tory		Council Labora- tories		Government Chemical Labora- tories		Staff of C.M.D. (Field Tests)	
	1943	1944	1943	1944	1943	1944	1943	1944	1943	1944
26. Water										
Swimming Bath Waters					557	398				
Sewage Effluent and Rivers					1,494	1,364				
Factory Effluents					3,551	4,554				
Boresole Waters					127	93				
Rivers, Seepage and Other Waters					113	27				
Miscellaneous					219	151				
27. Other Tests										
Transformer Oils					51	21				
Carcass and Blood Meals					171	100				
Soil Samples					30	62				
Flammable Materials					9	9				
Pharmaceuticals					-	9				
Tenders and Contracts					163	190				
Paints					211	295				
Miscellaneous					38	77				

SECTION BOVERCROWDING AND BAD AND  
INSUFFICIENT HOUSING IN JOHANNESBURG1. CONTROL OF BUILDING AND SLUM CLEARANCE1. INSPECTION OF PLANS

Plans which were submitted to the City Engineer for the erection of new buildings and alterations were examined by the Sanitation Branch to ensure compliance with the relevant sections of the building, drainage, health and other by-laws and regulations with which this Department is concerned. The following table shows the number of plans dealt with and the value of the buildings for the six years ended December 1965:-

	<u>Number of Plans</u>	<u>Value</u> <u>R</u>
1960	5,685	17,815,455
1961	5,218	26,671,510
1962	4,678	20,131,450
1963	4,848	32,384,900
1964	5,007	46,353,710
1965	7,254	68,745,786

804 plans were submitted and approved during the year for the Bantu areas.

## 2. Slums/...

## 2. SLUMS DECLARATIONS BY TOWNSHIPS:-

	1959	1960	1961	1962	1963	1964	1965	Total
Albertville							1	1
Argyle		3						3
Bellevue East						1		1
Bellevue				4				4
Berea		2		2		2		6
Bertrams		4				1	1	6
Bezuidenhout Valley		2						2
Booyens				1		16	2	19
Brixton				1				1
Charlton Terrace		1						1
City and Suburban						2	2	4
Clevedon				4				4
Craighall Park				1			1	2
Doornfontein		1				1	3	5
Fairview		1						1
Farm Langlaagte 224						1		1
Farm Doornfontein 92				6			2	8
Farm Turffontein 100		1				1		2
Farm Waterval				1				1
Ferreiras				4			3	7
Forest Hill						1		1
Greynot						1	2	3
Jeppestown	1			12		3	45	61
Johannesburg	9	21		21		2		53
Kenilworth		1						1
La Rochelle		2						2
Lakeview						7		7
Lorentzville		4		1				5
Malvern						1		1
Malvern Extension No. 1				1				1
Marshallstown							2	2
Melville				1				1
Newclare	237							237
New Doornfontein				1			3	4
Newlands	3			3		1		7
Norwood				1			1	2
Ophirton						32	1	33
Pageview						1		1
Parkhurst				1				1
Pearlshoop						17	3	20
Regents Park		2						2
Richmond		2		2				4
Rosettenville						1		1
Sunnyside	8							8
Triomf						1	1	2
Turffontein		4				3	1	8
Wanderers View				10		2		12
Waterval							1	1
Westdene				2				2
West Turffontein						3		3
Wolhuter							3	3
Yeoville		1		3		2		6
TOTAL	258	52	Nil	83	Nil	103	78	574

3. Conversion/...



### 3. CONVERSION OF RESIDENTIAL PREMISES TO BUSINESS USE

	No.		Granted		Refused		Out-standing	
	1965	1964	1965	1964	1965	1964	1965	1964
Applications dealt with by Department of Community Development	16	22	10	12	4	4	2	6
Applications dealt with by Health and Amenities Committee	2	4	2	3	-	-	-	1
TOTAL	18	26	12	15	4	4	2	7

### 4. DEMOLITION AND CONVERSION OF BUILDINGS

Applications for demolitions and conversions under permit from the Department of Community Development (National Housing and Planning Commission), Health and Amenities Committee and the Medical Officer of Health are itemised on the following table:-

	No.		Granted		Refused		Out-standing	
	1965	1964	1965	1964	1965	1964	1965	1964
Applications dealt with by Department of Community Development	93	116	67	86	5	5	21	25
Applications dealt with by the Health and Amenities Committee	28	24	23	19	1	-	4	5
Applications dealt with by the Medical Officer of Health	74	92	74	92	-	-	-	-
TOTAL	195	232	164	197	6	5	25	30

11. HOUSING SUPPLIED BY COUNCIL1. EXISTING HOUSING AND LAND SELLING SCHEMES(a) Letting and Selling Schemes

As at 31 December 1965 the European Housing Branch of the Department controlled and administered a total of 2,098 housing units, made up as follows:-

	Houses	Flats	Old Age Cottage Units	Total Housing Units
<u>South Hills and Extension</u>				
(Economic Letting and Selling Scheme)	1,128	189	-	1,317
<u>Montclare</u>				
(Economic Letting Scheme)	244	-	-	244
<u>Pioneer (Glenesk)</u>	96	24	-	120
<u>Maurice Freeman (Bertrams)</u>	111	48	28	187
<u>Jan Hofmeyr</u>	194	-	36	230
<b>TOTAL</b>	<b>1,773</b>	<b>261</b>	<b>64</b>	<b>2,098</b>

Based on a rough estimate of 5 persons to each house, 4 to each flat, 2 to each double old aged cottage unit and 1 to each single old aged cottage unit, the total European population of the city housed in these five estates is 10,001.

The selling of houses at South Hills was suspended at the end of 1964. Until further notice and because it is not possible to erect new houses at anything near the low cost prevailing when these houses were built some 20 years ago, the only houses sold during the year were those where the prospective purchaser (the existing tenant) had been in occupation of the particular house concerned for at least 3 years or houses where authorised improvements, such as the erection of a garage and the conversion of the existing storeroom and coal shed to Bantu quarters and a water closet respectively, had been carried out by means of a Council building loan. When a house in this latter category was surrendered or the sale cancelled because of non-payment of instalments, the house was re-sold, the reason being that the Council has no other means of recovering the outstanding amounts on the additional building loan.

HOUSING UNITS UNDER CONTROL OF THE EUROPEAN HOUSING SECTION  
CITY HEALTH DEPARTMENT

ESTATES	HOUSES					FLATS				OLD AGE COTTAGES		
	2 BR.	3 BR.	4 BR.	Total Houses	Bachelor	1 BR.	2 BR.	3 BR.	Total Flats	Single	Double	Total Units
SOUTH MILLS	454	432	53	939								
	30	150	9	189	27	108	54		189			
MONTCLARE	63	181		244								
MAURICE FREEMAN	18	19	4	41								
	30	40		70			36	12	48	16	12	28
PIONEER	43	53		96			18	6	24			
JAN HOFMEYR	92	102		194						20	16	36
AS AT 31.12.65.	730	977	66	1,773	27	108	108	18	261	36	28	64

(A) UNDER CONSTRUCTION SOUTH MILLS RESERVES  
135/566

Duplex Flats 56  
Row Houses 42  
O.A. Cottages (30 single, 18 double) 48  
146 units

(B) ALSO

2 Communal Halls  
10 Shops  
1 Girls' club (51 residents)  
5 Land selling schemes

(C) TOTALS (EXCLUDING A AND B)

Houses 1,773  
Flats 261  
No. of O.A.P. units 2,034  
(36 single - 28 double) 84  
Total No. of dwellings 2,098

The/...



The sales of 13 houses were cancelled in 1965. Nine of these were reverted to letting units and four were re-sold. The total number of sold houses in South Hills and Extension as at 31 December 1965 was 729.

(b) Land Selling Schemes

The Branch also administers five land selling schemes as follows:-

	<u>Residential Stands</u>
Roosevelt Park	512
Roosevelt Park Extension	264
Montgomery Park	441
Dewetshof	130
Dewetshof Extension No. 1	202
TOTAL	<u>1,549</u>

With the exception of a small number of residential stands which have been found to be unsuitable for building purposes, the townships of Roosevelt Park, Roosevelt Park Extension and Dewetshof are fully built up. Montgomery Park, again with a small number of unsuitable stands is approximately 95% built up.

The present financial position in relation to the availability of building society bonds and negotiations with the Transvaal Provincial Administration for ground in Dewetshof Extension No. 1 for a new site for the Queens High School, Kensington, has resulted in the sale of the 202 residential stands in this township being held up.

(c) Other Units

The Branch also administers:-

(i) The Lionel Leveson Girls' Residential Club

This is a hostel which provides accommodation for 51 lowly paid European females.

(ii) 10 Shops in South Hills

(iii) 2 Communal Halls

One each in the Housing Estates at Pioneer and Maurice Freeman. (A third communal hall, that at Jan Hofmeyr Housing Estate, is administered by the Parks and Recreation Department).

(d) Old/...

(d) Old Aged Cottage Units

The 64 old aged cottage units (36 at Jan Hofmeyr and 28 at Maurice Freeman Housing Estates) completed in December 1964 were fully occupied by the beginning of February 1965. Accommodation is provided for 92 persons.

The garden layouts at both schemes were completed during the first quarter of the year and picket fences, security lighting and garden benches were provided by the Council in June 1965. It is pleasing to record how these old aged persons have themselves added to the amenities of the surrounds by constructing their own flower gardens and, in some cases, their own vegetable gardens.

In November 1965, a personal visit was made to every tenant in these schemes to ascertain their reaction to living in these cottages over the past nine months. They were each asked specific questions and a summary of the answers was compiled. These senior citizens are all happy in their new environment and expressed extreme gratitude to the Council for having provided them with accommodation at rentals which they can afford. (R4-80 per month for the single units and R5-40 per month for the double units).

Early in 1966, it is hoped to provide a public telephone at each of these two schemes.

LAND SELLING SCHEMES (EUROPEAN)

TOWNSHIP	DATE OF DISPOSAL OF STANDS	NO. OF RESIDENTIAL STANDS	RULING SIZE OF STAND	FACILITIES	GENERAL REMARKS
FRANKLIN ROOSEVELT PARK	1946	512	$\frac{1}{4}$ acre	5 Church sites, 2 Primary School sites (one built), Nursery School (built), Parks and open spaces. Fully constructed roads. All essential services. ---000--- Business and Community Centre which will be developed now that the complex is complete by the disposal of Montgomery Park.	This township was restricted to returned soldiers and families with incomes below £2,400 p.a. It is situated in the north-western suburbs in ideal surroundings. It is a very popular suburb of Johannesburg and homes here are always in great demand.
FRANKLIN ROOSEVELT PARK EXTENSION NO. 1	1955 1961	264	$\frac{1}{4}$ acre	1 Church site, High School (built), Nursery School site, Parks and open spaces. Fully constructed roads and all essential services. On 28 October 1961 a Community Centre was opened by the Mayor on Stand 869.	An extension of and adjacent to the above township. The above remarks apply here too, but the income limit restriction was raised to £3,000 per annum.
MONTGOMERY PARK	1960	441	$1\frac{1}{5}$ th acre	2 Church sites, School site, 12 large flat or General Residential sites, Parks and open spaces. Roads are fully constructed and all essential services are provided.	This township is adjacent to the two townships above and completes what is known as the "Roosevelt Park complex". The township is well planned with somewhat smaller stands but delightful homes have been erected in keeping with the two townships referred to above.
DEWETSHOF	1959	130	$\frac{1}{4}$ acre	Flat site, Nursery School site - School site, Large parks and open spaces. Roads have been fully constructed and all essential services are provided.	This township, situated in the eastern suburbs adjacent to Cyrillene and Observatory Extension, is in a select area of the city. Adjoining the western boundary of the township is a large 100 acre park and a golf course. This township has developed on the lines of Cyrillene which caters for the upper-middle income group.
DEWETSHOF EXTENSION NO. 1		202	$1\frac{1}{6}$ th to $\frac{1}{4}$ acre	2 Church sites, 2 Business sites, Nursery School site, Parks and open spaces and all services will be available before the disposal of stands. Roads will be fully constructed.	Situated to the south of Dewetshof and adjacent to Kensington. This proposed township will cater for the lower-middle income group with a probable income limit restriction. It is anticipated that it will prove a popular area and develop on the lines of Franklin Roosevelt Park. It is hoped to sell the stands during 1965.

TOTAL NUMBER OF RESIDENTIAL SITES 1549

2. Income/...



## 2. INCOME LEVELS

The income limits imposed by the Department of Community Development in terms of the Housing Act remained at the following figures during the year:-

Old aged persons	-	R40 per month per capita
Sub-economic group	-	up to R80 per month
Economic group	-	R81 to R180 per month

However, in October 1965, the Minister of Community Development announced a concession in regard to the economic group whereby the maximum of R180 per month was increased to R250 per month, when there are at least three dependant children in the family.

## 3. INTEREST RATES ON NATIONAL HOUSING LOANS

The prevailing rates of interest on economic housing loans were as follows:-

Loans approved prior to 1 April 1965	5%
Loans approved from 1 April 1965 to 30 June 1965	5½%
Loans approved from 1 July 1965 to 2 September 1965	5¾%
Loans approved from 3 September 1965 onwards	6¼%

It will be seen, therefore, that during the year there was an increase of 1¼% in the interest rate, which will have its effect on the rent structure of new economic housing schemes.

There was no change in the sub-economic interest rate (¾%) or the old aged interest rate (1/20th %).

## 4. PLANNING AND ERECTION OF NEW HOUSING UNITS

### (a) General

During the year under review the Special Housing Section, created in October 1964 for the special purpose of expediting the building of houses for Europeans and Coloureds, has been very much occupied in obtaining land for new schemes and in submitting the necessary plans and estimates for housing loan applications to the Department of Community Development.

In the search for land it has become increasingly evident that there is an extreme shortage of large tracts of land in the municipal area suitable for low cost housing and practically all schemes have had to be designed on a relatively high density basis of multi-storey construction in garden settings on comparatively small areas of ground purchased at relatively high cost.

Conditions/...

Conditions of this nature have proved to have a threefold disadvantage as it is now no longer possible to design on a single-storey detached house concept with its accompanying lower building costs and thus ensuring a mode of life particularly suitable to the South African temperament at reasonable rentals, but each scheme sited on a small area demands practically the same amount of professional design time from town planners and architects as a scheme of five times the size, as well as not inconsiderable sums of money necessary for the garden layouts.

During the year, owing to the Town Clerk's Department making a special effort, practically all land earmarked for the five year European housing programme, comprising some 4,000 units, has been purchased or negotiations for the sale to the Council are in their last stages. One large area planned for some 1,500 dwelling units has, however, been a source of much disappointment as the necessary approval from the Minister of Agricultural Credit and Land Tenure has been awaited for a considerable period, but it is understood that a decision will be reached in this matter in the near future.

#### (b) European Housing Schemes

In the short period of its existence the Section has concentrated in the planning stages of its programme on producing as large a number of individual schemes as possible for approval by the Department of Community Development in order to ensure a steady flow of new homes over the five year period.

As soon as the purchase of the land is finalised schemes are submitted but approval for loans has been surprisingly slow in being obtained and of the six economic and three sub-economic schemes submitted so far only two have been approved and then only after long delays. It is understood that the delays are due to the nation-wide shortage of technical staff for checking purposes and it is doubtful whether much can be done to expedite matters. It would appear, however, that a steady flow of approvals can now be expected and the Section can plan accordingly.

New housing schemes actually pursued by the Special Housing Section during the year were:-

#### Economic Schemes

- |                               |   |  |
|-------------------------------|---|--|
| Ø South Hills Reserves        | : | 98 housing units (row houses and duplex flats).                          |
| * West Turffontein and Haddon | : | 386 housing units (flats, duplex flats, row houses and detached houses). |

Bezuidenhout/...



Bezuidenhout Valley (Old Chinese Garden Site)	: 70 housing units (duplex flats and detached cottages).
* Claremont (Stage 1)	: 185 housing units (row houses and detached houses).
Reserve D: West Turffontein	: 54 housing units (flats and row houses).
Holding 139: Klipriviersberg	: 71 housing units (flats and duplex flats).
Portion 132: Farm Turffontein	: 150 housing units (flats and duplex flats).

Sub-economic Schemes  
(Old Age Schemes)

Ø South Hills Reserves	: 48 old age flatlets
Haddon	: 30 old age flatlets
Reserves Turffontein	: 18 old age flatlets
Jan Hofmeyr	: 66 old age flatlets
Ø Scheme under construction	
* Housing loan approved	

Of the two approved schemes it is hoped to construct one by means of a negotiated tender with a firm specialising in timber-framed buildings and the other, comprising some 386 units including a 9 storey block, by normal tendering methods and conventional construction. It is hoped both schemes will be well under way during the early part of 1966.

The possible take over from the State of a large number of properties and vacant stands in a portion of the township of Albertville as an urban renewal project combined with a Group Areas move was investigated by the Section and is still the subject of negotiations between the Council and the Department of Community Development. The Council has made an offer to the Department and an answer to its proposals is still awaited.

(c) Urban Renewal Programme

In the field of urban renewal the Special Housing Section has initiated two pilot schemes. The one is the Vrededorp/Pageview complex including the Vrededorp Compound site, and the other comprises some 160 acres in the Troyeville/Jeppestown complex. During the year a socio-economic survey was completed departmentally in Vrededorp and in the Troyeville area the aid of a private marketing research

firm/...



firm was enlisted with remarkable success in the completion of another socio-economic survey. With a view to completing a physical survey of all buildings in both areas questionnaires for every individual building are being prepared and teams are being trained to carry out the actual inspections early in the new year.

These two schemes, although only pilot schemes, are of considerable magnitude and it is expected that they will cost in the region of R8-million and R15-million respectively.

In the field of urban renewal in the Republic there is a large number of problems to be investigated not only technical but legal and sociological. It is expected that when these two schemes are completed not only the City Council will be the richer in experience in this field of human endeavour but all State departments concerned will also benefit considerably.

(d) Bad Debts for Rent Arrears

The following schedule records the bad debts incurred by the Council in the various housing estates since their inception:-

Housing Estate	Period	Total Rent Accrued	Total Bad Debts	Ratio of Bad Debts to Accruals
South Hills and Extension	1947/65	R2,701,499-80	R21,488-51	.795%
Montclare	1958/65	R 412,436-92	R 5,250-20	1.273%
Ø Jan Hofmeyr	1952/65	R 231,249-65	R 747-91	.323%
Ø Maurice Freeman	1952/65	R 214,903-22	R 671-43	.312%
Pioneer	1952/65	R 165,821-73	R 344-09	.208%

Ø Includes Old Aged Cottage Units 1964/65

(e) Legal Action taken against Tenants in Arrears:-

Housing Estate	No. of Cases Referred for Legal Action	No. of Cases Cleared	No. of Absconding Tenants	No. of Tenants Evicted
South Hills and Extension	21	9	4	3
Montclare	26	17	6	4
Jan Hofmeyr ) Maurice Freeman ) and Pioneer )	4	2	1	-
TOTAL	51	28	11	7

5. PROJECTED HOUSING SCHEMES FOR COLOURED

It is estimated that some 12,000 houses are required to house the whole Coloured population in proclaimed areas. The following have been provided:-

Coronationville	611 units
Noordgesig	1,063 units
Western Township	2,063 units
Riverlea	1,460 units

A further 7,500 units are estimated to be required, in addition to which the dwellings in Western Township, previously a Bantu township and at present occupied by Coloured families, will have to be demolished and reconstructed.

Noordgesig has been zoned for Bantu occupation and a further 1,063 families from this township will have to be rehoused in new areas earmarked for Coloured occupation.

In the four expropriation areas of Newclare the Section has obtained approval for 900 flats and it is hoped to start construction early in the new year on this project by means of a negotiated tender and employing industrialised construction methods.

A start has also been made on the redevelopment of Western Township. An area has been cleared in the south-western corner and tenders for the construction of some 320 housing units will be called for within a few months.



COUNCIL COLOURED HOUSING SCHEMES

SCHEME	DATE OF ESTABLISHMENT	TOTAL NUMBER OF DWELLINGS	TYPE OF SCHEME	TYPES						RANGE OF MONTHLY OR WEEKLY RENTALS	APPROX. UNIT COST AND SERVICES (EXCLUDING LAND)	APPROX. AREA IN SQUARE FEET	TOTAL CAPITAL COST	REMARKS
				HOUSES										
				SINGLE ROOMS	1	2	3	FLATS						
Coronationville (1st Section)	1936	250 houses	Sub-economic Letting and Selling	26	158	66			R4-00 to R17-75 per month	R1,628	722 Average	R1,177,406	These houses are of an austere type for occupation by sub-economic tenants.	
Coronationville (2nd Section)	1946	251 houses	Sub-economic Letting and Selling	10	125	116			R4-00 to R17-75 per month		537 to 1,606		This scheme is well equipped with amenities comprising a community centre, library and recreational facilities. Sewerage is provided throughout.	
Coronationville B.K. Reid Village	1953	50 flats	Economic Letting					50	R12-50 per month			R119,928	Built by B.K.Reid. for Ex-Servicemen, and administered by the Council.	
Coronationville Council Flats	1959	60 flats	Economic Letting					15	R17-00 to R23 per month	R2,380 R2,470	786	R146,850	Built by Private Contract and administered by the Council.	
Noordgesig (1st Section)	1928	350 houses	Sub-economic Letting	175					R3-10 to R6-75 per month R4-60 to R10 per month.	R552 Average	635 Average	R378,335	The 1st and 2nd Sections are constructed in brick and iron of a good standard, the remaining sections being of an austere standard in concrete or brick and iron.	
Noordgesig (2nd Section)	1946/1947	250 houses (50 pairs Semi)	Sub-economic Letting	250					R4 to R9-75 per month	R1,492 Average	714 Average	R355,840	Amenities include a communal hall, recreational facilities, a child health and medical services clinic and library.	
Noordgesig (3rd Section)	1953	100 houses (50 pairs Semi)	Economic Letting	100					R2-31 per week	R1,540 per pair	1,080 per pair	R101,660	Sewerage is provided to all units except 6 units which are provided with the pail service.	
Noordgesig (4th, 5th and 6th Sections)	1954 to 1957	359 houses	Economic Letting	359					R1-85 per week	R390 to R574	527	R250,590	*This section was developed in three successive stages with separate economic loans for 150, 70 and 139 houses.	
Noordgesig Experimental Houses	1961	4 houses	Experimental Scheme	3			1		R13-50 to R17 per month R17 per month	R1,700 to R1,910 R2,200	2,679	R7,600		
Riverlea	1962	623 houses	Economic Letting/Selling	623					R13-25 to R14 per month	R340-00	93,600 morgen	R550,116	All houses are of a good standard of construction in brick and iron. Provision has been made for all amenities and services.	
Riverlea	1964	108	Experimental Economic Selling Scheme				108			R9,000		R40,000 Approx.	Timber-framed, brick, veneered houses of excellent construction and appearance. A house ownership scheme.	
Riverlea Extension 1	1963	719	Sub-economic Letting	432	156	151			R5-25 to R7 per month		59.4 morgen	R510,223	All houses are of a good standard of construction in brick and iron.	
Western Township	1920	2,063 houses	Low rental Letting Scheme (formerly Bantu Township)	2737	295	31			R2 to R7 per month		80,130 morgen	R770,987	All houses are of a good standard of construction in brick and iron. This scheme is well equipped with amenities comprising a community centre, library and recreational facilities. Sewerage is provided throughout.	
GRAND TOTAL		5,077 houses 110 flats		2203	2224	648		15	95					

Housing/...



**HOUSING STATISTICS - BANTU LOCATIONS/VILLAGES IN SOWETO AND  
EASTERN BANTU TOWNSHIPS AS AT JUNE 1965**

Locations/ Villages	BUILT BY MUNICIPALITY HOUSING FUNDS				Built by Municipality Self-Builders Loan Funds	Built by Private Persons Self-Builders Loan Funds	Built by Private Persons Own Fund	Total Number of Houses
	Leased	Sold	Casestakers' Cottages, Employees' Quarters, Institutions	Total				
Central Western Jabavu	936	292	4	1,232	80	68	78	1,458
Chinwelo	3,873	79	9	3,961	30	-	9	4,000
Dhlamini	1,216	193	3	1,412	2	13	12	1,439
Dube Village	-	1,444	4	1,448	100	319	94	1,961
Endeni	2,300	-	3	2,303	-	-	2	2,305
Jabavu	5,100	-	7	5,107	-	-	11	5,118
Jabulani	1,732	305	2	2,039	-	-	7	2,046
Mapetla	2,248	323	2	2,573	26	-	22	2,621
Mofofo	2,114	2,387	17	4,517	95	105	108	4,826
Molapo	1,168	182	3	1,353	11	63	60	1,487
Molatsane	1,636	246	2	1,884	65	7	14	1,970
Moroka	2,326	61	2	2,384	450	6	50	2,895
Naledi	4,034	8	6	4,048	-	-	7	4,055
Orlando East	5,898	-	-	5,898	-	-	15	5,913
Orlando West	4,427	-	2	4,429	-	-	47	4,476
Orlando West Ext.	153	847	1	1,001	-	-	-	1,001
Phiri	2,164	26	12	2,202	1	-	11	2,214
Pleville	130	-	-	130	-	-	1,096	1,226
Sesosane	1,655	87	9	1,751	29	1	24	1,805
Tladi	1,616	207	4	1,827	28	4	12	1,871
Zola	5,492	84	8	5,584	-	-	11	5,595
Zondi	1,105	283	2	1,390	135	-	57	1,582
Totals Soweto Eastern Bantu Township	51,323	7,054	102	58,479	1,052	586	1,747	61,864
	611	-	-	611	-	-	-	611
GRAND TOTAL	51,934	7,054	102	59,090	1,052	586	1,747	62,475

Bantu/...

BANTU HOUSING 1965

HOUSING FOR BANTU UNOCCUPIED DURING YEAR 1965

Johannesburg City Council

Scheme	No. of Dwellings	Date of Commencement	Foundations	Brick Work Super-structures	Complete	Handed Over
Construction of Houses for Self-Builders - Moroka	624	16. 4.1962	416	409	404	404
Moroka North, Dhlamini, Chiawelo, Zondi, Senadane, Phiri, Mopelia	309	2. 11.1962	188	188	188	188
Council built Houses, Dhlamini and Chiawelo	458	1. 4.1965	458	458	458	458
Ozando West Women's Hostel	50	1. 4.1965	50	50	50	50
Dube - Council built Houses	134	16.10.1965	133	39	-	-
Klippepruit Scheme	1,702	25. 6.1965	650	450	98	-
Dube Extension	108	-	-	-	-	-
Hostel for Men - Lefateng	-	-	-	-	-	-

No Site and Service Schemes are under Construction

Housing Undertaken by Bantu Resettlement Board

	Dwelling Units		Houses		No. of Persons to be Accommodated	Accommodation Completed for	Accommodation Supplied to
	Planned	Completed	Planned	Completed			
Meadowlands East and West	-	-	15,720	12,359	-	-	-
Meadowlands Hostel	278	-	-	-	4,396	-	-
Meadowlands Hostel	-	246	-	-	-	3,580	3,417
Diepkloof East, West and South	-	-	-	-	-	-	-
Letting Scheme	-	-	10,450	10,369	-	-	-
House Ownership Scheme	-	-	421	192	-	-	-

