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

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# CITY OF JOHANNESBURG

# CITY HEALTH DEPARTMENT

REPORT OF THE MEDICAL OFFICER OF HEALTH

1973





Met die komplimente van die Studsgeneesheer

GESONDHEIDSAFDELING. KSTRAAT 18, H/V. DE VILLIERSSTRAAT. HANNESBURG. OSBUS 1477.



With the Compliments of the Medical Officer of Health

CITY HEALTH DEPARTMENT,

18. HOEK STREET C/R. DE VILLIERS STREET.

JOHANNESBURG.

P.O. BOX 1477.

# CITY OF JOHANNESBURG

#### REPORT OF THE MEDICAL OFFICER OF HEALTH

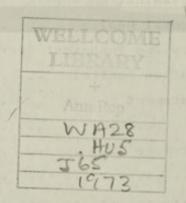
## 1973

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### CITY OF JOHANNESBURG

#### REPORT OF THE MEDICAL OFFICER OF HEALTH

1973

HIS WORSHIP THE MAYOR AND COUNCILLORS
OF THE CITY OF JOHANNESBURG

I have the honour to present my report for the calendar year 1973 on the activities of the City Health Department, the vital statistics of the city, and the main relevant features in regard to the health, sanitary circumstances and housing of its multinational communities.

A chronic shortage of personnel, coupled with general expansion and large scale building activities especially in the centre of the city, makes the control of established services and the provision of new health facilities a matter of extreme difficulty.

Surrounding towns also show phenomenal growth, thus making increasing demands for instance on the extensive sewerage system which now drains and purifies waste water for areas far outside the boundaries of the metropolitan area. Increased traffic using the expanding motorways of the city takes its toll of human life.

The take-over of vital statistics by the Department of Statistics, Pretoria, has not yet been extended to the Black population and still has many problems to deal with in regard to other population groups. In addition, the collection of sophisticated data inevitably lags behind the rapid expansion of health services so that important aspects of health such as nutritional status and age/morbidity rates need urgent assessment.

The July beautification campaign initiated by His Worship the Mayor was intended to educate citizens to realise that litter is not only the enemy of health and environment but costs the city's cleansing services close on one million rand a year. The anti-litter c mpaign has not met with any spectacular success but will be continued on a long-term basis.

The Department remains a continuing source of practical training for various student disciplines, involving health personnel at all levels in demonstrations, lectures and practical work.

N.B. In this report figures shown in parenthesis refer to those of the previous year (1972).

HIS WORSHIP THE MAYOR AND TOUNCILLORS

SECTION I NATURAL CONDITIONS

The city of Johannesburg is situated in latitude 26 degrees 11 minutes south and longitude 28 degrees 4 minutes east, approximately 483 km from the nearest sea coast. The altitude of the centre of the city at Joubert Park is approximately 1810 m above sea level.

The municipal area covers 50 890 ha or 508,9 sq km. Nine big regional parks cover a total area of 377,36 ha. There are 3 757 ha of other park sites and open spaces.

The city lies on the crest of the Witwatersrand ridge on a high inland plateau almost at the northern limit of the highveld area of the Transvaal province. The ridge stretches approximately 142 km to the east and west, forming one of the main watersheds of the country. All streams are perennial, those on the northern side being tributaries of the Limpopo River and proceeding to the Indian Ocean, while those to the south proceed to the Orange River and Atlantic Ocean. The only nearby river with a continuous flow is the Vaal River.

The city is not located on a navigable river or seaboard, with the result that the Jan Smuts Airport has become the major point of entry. The metereological and topographical features generally favour the dispersal of atmospheric pollution. Temperature inversion is often encountered but usually does not persist later than 10 h 00 or 11 h 00. In the winter months morning and afternoon inversions can be very severe, resulting in smoke concentrations of the same order as those of similar sized British cities.

The climate is essentially temperate although the city is within 3 degrees of the Tropic of Capricorn. With bright warm days and cool nights there is a marked diurnal range of temperature. The average daily period of sunshine is about 9 hours.

Approximately 80% of the rainfall takes place in summer, generally as high intensity storms with long intervening dry periods.

The figures furnished below are from the Weather Bureau's monthly reports for Joubert Park, Johannesburg.

RAINFALL AND TEMPERATURE

		Temperature in °C							
bellison ne	Norma	al	19	73	Aver	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Average		
Month	Average	No of	Total	No of	Daily Maxima		Daily Minima		
ana al	Month	rain days	Month	rain days	Normal	1973	Normal	1973	
SECTION III	mm		mm						
January	149,6	15	84,8	10	24,6	27,8	14,7	16,4	
February	129,4	12	57,5	8	24,2	24,1	14,4	14,2	
March	110,4	12	77,5	11	23,3	25,7	13,3	15,8	
April	47,7	7	83,3	9	21,5	18,7	11,2	10,0	
May	24,5	4	0,0	0	18,4	18,5	7,9	8,5	
June	6,5	1	0,0	0	16,0	16,4	5,4	5,4	
July	10,5	2	0,0	0	16,0	16,4	5,0	5,4	
August	10,1	2	11,5	3	19,0	17,9	7,4	6,6	
September	25,6	4	80,5	3	21,9	22,4	9,8	10,3	
October	65,0	9	94,2	13	23,9	22,2	12,0	12,3	
November	126,5	13	102,0	9	24,2	23,3	13,1	12,3	
December	141,1	15	94,0	12	24,6	23,3	14,1	13,6	
TOTALS	846,9	96	685,3	78	Kaemor	Tanda	455 1889	35 6	

SECTION II
VITAL STATISTICS

Mortality statistics for the White, Coloured and Asian population groups have been submitted for the current year by the Department of Statistics, Pretoria, in 17 categories (ICD 8th Revision) but without detailed coding. As the 7th Revision was used by the local authority until 1971 and changes in classification and coding inevitably occur when handled by a different department, no comparison will be made with previous findings in these 3 population groups.

In the Blacks however mortality statistics are still being obtained directly from the Bantu Commissioner and Registrar of Births and Deaths and comparisons are possible.

Infantile Mortality Rate

The infantile mortality rate has been calculated on notified births with a rate of 44,22 for all races, varying in range between 18,07 in Whites and 60,93 in Coloureds. The rate in Blacks has shown a steady decline as can be seen in the following table.

Infantile Mortality Rate for Blacks

1967 1968 1969 1970 1971 1972 1973 93,22 101,11 100,36 95,48 73,87 61,77 54,27

Mortality Statistics in Blacks

It is noted that 1 520 Blacks (1 393) were classified as having died from symptoms of ill-defined conditions, ie 24,04% (21,15%) of the total number of deaths.

Diseases of the circulatory system accounted for 1 098 (632) or 17,36% (9,6%) of the total. On further analysis of this apparent increase, it is noted that no less than 323 of the 1 098 cases died from "ill-defined heart disease" and only 22 from ischaemic heart disease. A further 154 died of hypertensive heart disease, 235 from cerebral haemorrhage, 67 from subarachnoid haemorrhage and 36 from cerebral thrombosis.

There were 76 deaths from neoplasm of the oesophagus, 67 of which were in males. Malignant neoplasm of the cervix uteri accounted for 28 Black female deaths and cancer of the breast for 11.

A decrease is noted in deaths due to accidents, poisonings and violence with a death rate of 2,02% (2,44%).

In diseases of the nervous system 69 died of meningitis, of which 25 were under the age of one year. Twenty-six died of epilepsy. The death rate from diseases of the nervous system decreased from 0,82 to 0,22%.

(STATISTICS FOR THIS SECTION ARE CONTAINED IN APPENDICES D AND E)

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SECTION III FAMILY HEALTH

From 11 health centres, 41 subsidiary and 11 mobile clinic venues promotive and preventive services continue to operate for the citizens of Johannesburg. The services offered include child health clinics for infants from birth to 2 years of age; medical examinations of children attending child health clinics and pre-school institutions; immunisation for infants, school children, immigrants and persons deemed to be at risk by virtue of their occupation; inspections of children's institutions; family planning and cancer prevention clinics; a geriatric screening clinic and health education as well as domiciliary visiting by public health nurses. Psychiatric clinics staffed by officials of the State Department of Health operate in Council-owned premises in the White, Coloured and Black areas. In the western and southern Coloured and Asian areas tuberculosis services are being integrated with family health services.

The international immunisation service operated by the Department on behalf of the State Department of Health for many years was handed back on 1 October 1973.

Three Council-controlled creches in the Black areas were transferred to the Non-European Affairs Department in June 1973.

#### Child Health

Child health clinics were held at 63 venues with 109 weekly sessions. In the Black areas a Saturday morning session is available at each family health centre for the special benefit of the working mother.

Except in the Coloured areas, attendances were less than those of the previous year for no obvious reason.

Following a series of interesting lectures and demonstrations given by Dr A Muschen of the Lambeth Clinic in London, a developmental screening clinic for toddlers was started as a pilot study at one health centre.

Medical officers of different racial groups now receive the same remuneration, with the result that a full complement has been available in the non-White areas. It was therefore possible to provide more medical coverage for infants at the child health clinics.

#### Domiciliary Visiting

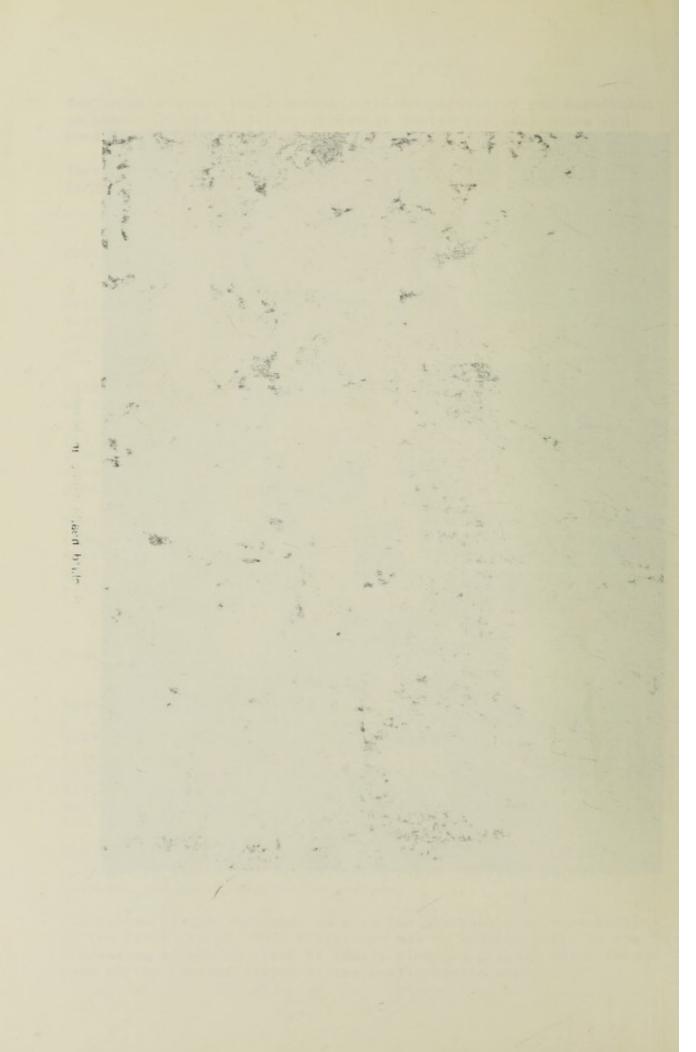
Domiciliary visiting remains one of the most important functions of the public health nurse. Once birth notifications are received, mothers of new babies are visited and advice given, if needed, especially on child care and feeding problems. Immunisation defaulters are reminded of the services available. Attenders at family planning, cancer prevention, child health and geriatric screening clinics as well as at one toddler clinic are visited and referrals made.

The number of births investigated totalled 29 455, showing a decrease in Whites and Balcks, but a slight increase in the Coloured and Asian population groups.

Fewer home visits were made than in the previous year especially in the Black areas. This difference may be accounted for by the increasing attention given to family planning clinics which form part of the routine duties of the public health nurse.



A child health clinic in Soweto



#### Geriatric Screening

A geriatric screening clinic for senior citizens aged 65 years and over continues to operate weekly at one health centre. A total of 2 394 adults, of whom 96 were new attenders, visited the clinic. Nearly 300 were referred to their general practitioners, Provincial hospitals and other special clinics or organisations. Of these clinic attenders, 181 persons were screened, 100 for the first time. As transport to and from the health centre is a problem for the aged, the local branch of the Red Cross Society kindly arranged to transport 506 attenders to and from the geriatric clinic and 53 to points of referral.

#### Immunisation

The low incidence or absence of diseases such as diphtheria, tetanus, smallpox and poliomyelitis reflects continuing effective immunisation within the Johannesburg area.

Measles immunisation continues to be offered to non-White children aged 8 months to 4 years and to institutionalised White children. A total of 14 920 children, of whom 110 were Whites, was immunised.

Although measles is not a notifiable disease, an analysis of cases admitted to the C.M.R. non-White Hospital showed the following figures. Out of a total of 240 cases of measles admitted in 1973, 17 (7) had been immunised previously. There were 93% in the age group 0 to 4 years but of these 14% were under the age of 8 months. Immunisation had not been offered prior to this age as it was expected that maternal antibodies would still be sufficient to have some protective value. Of the 240 hospital cases, 106 were known to have been unimmunised. No records in respect of the remainder were available.

Rubella immunisation is offered in primary schools to all adolescent school girls aged approximately 12 years.

Immunisation against rabies was offered to municipal abattoir workers. A very satisfactory antibody response of 97 to 100% was found in the 74 workers who completed courses or received boosters. A total of 29 did not complete their course.

Family Planning and Cancer Prevention

Family planning and cancer prevention services are offered from 14 clinics. A total of 43 110 individuals attended, 12 270 for the first time. The most suitable contraceptive is offered to each individual according to her personal needs.

The intra-uterine device appears to be most favoured.

Cervical screening continues but is still limited by the number of slides which can be screened by the Department's cytotechnician and the South African Institute for Medical Research.

Out of a total of 5 563 cervical smears taken, reports on 4 649 were received before the end of the year. Of the latter, 0,6% showed the presence of carcinoma in situ, 94% were negative and 5,4% showed atypical or dysplastic cells. In the 3 965 smears screened by the Department's cytotechnician, 67% revealed cells of bacterial origin and the presence of Trichomonas or Candida infections.

The follow-up of patients showing suspicious and positive smears presents a very important but difficult problem. Difficulties arise in tracing those who do not return to family planning clinics at which the smears are taken and in persuading those who require treatment to go to hospital for further investigation or surgery.

Hysterectomies were performed on 12 of the 28 cases with carcinoma in situ. Seven of the Blacks could not be traced, others refused further treatment or are still being investigated.

#### Children's Institutions

Re-organisation during the year with new personnel who required orientation as Inspectresses put a heavy load on the Chief Inspectress of this section.

The practical application of gazetted Provincial standards for creches and creches-cum-nursery schools has brought to light many problems indicating lack of uniformity and other factors regarding consent use, conflicting requirements for control by State, Province and local authorities, and the lack of legal control of persons looking after 6 or less children for gain in their own homes.

The need for day care centres for children has become increasingly urgent because of high rise buildings, greater employment of women, more families with only one responsible parent and the increased awareness of the need for early education. Some centres controlled by non-profit organisations, even when in receipt of a subsidy, have been forced to close due to financial problems.

In the Coloured areas day care centres were visited and monthly discussions held with all the supervisors. The lack of training for Coloured nursery school teachers has led to the formation of

a sub-committee of WITSCO to organise demonstrations and lectures for creche personnel in the Coloured and Asian areas.

Day care centres in the Asian areas do not conform to standards and are as yet not registered.

The 3 Black creches which were handed over to the Non-European Affairs Department in 1973 and now run by the West Rand Bantu Affairs Administration Board are still being inspected by personnel of this Department.

In the White areas 6 815 pre-school children were being cared for in 120 day centres (74 half-day and 46 full-day) in 1973, while approximately 1 200 were known to be cared for by 200 private 'child minders' who care for 6 or less children in their homes.

In the Coloured areas 6 institutions provide all-day care for 405 pre-school children. Five Asian associations care for approximately 300 children and 4 405 Black children attend at 42 centres.

During the year 779 telephone enquiries were received regarding placement of children in White day care centres and 165 interviews were held by the personnel of this section with members of the public.

A total of 96 inspections of existing institutions were made by the Inspectresses of the section, and 26 properties were inspected where the establishment of centres was contemplated.

(STATISTICS FOR THIS SECTION
ARE CONTAINED IN APPENDICES
F TO K)

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SECTION IV
HEALTH EDUCATION

There is a growing awareness in society of the need to interpret "health" in its broadest possible sense.

The public, at the level of the individual, family and community, should participate actively, either to maintain health at an optimum level or to attain it by influencing behaviour patterns

for instance with regard to smoking habits, alcohol, drugs, nutrition, family planning and sexual behaviour.

During the year great stress was laid on the need for involvement of health educators with community leaders Increased liaison was established with voluntary and official organisations as well as groups undertaking health education.

Programmes and Activities

Besides the day-to-day counselling which all health personnel undertake routinely in the course of their preventive work, health education discussions, preferably in small groups at family health centres, have dealt notably with the problems of gastro-enteritis in babies, environmental cleanliness, family planning and tuberculosis. The introduction of a preschool record card at family health clinics has been preceded by in-service training.

At the Southern Areas Health Centre health education sessions at the geriatric clinic have proved to be of great value. An ante-natal programme introduced at the local Hospital will be integrated in the planning of parent education, and family health care programmes will be presented at regular advertised times at the Health Centre.

Public health nurses and health inspectors visited 3 schools for Coloureds and provided sessions on surface sanitation. The programme was well received, but cannot be extended due to insufficient personnel. A parent-teachers' meeting at a White college was also addressed on this subject.

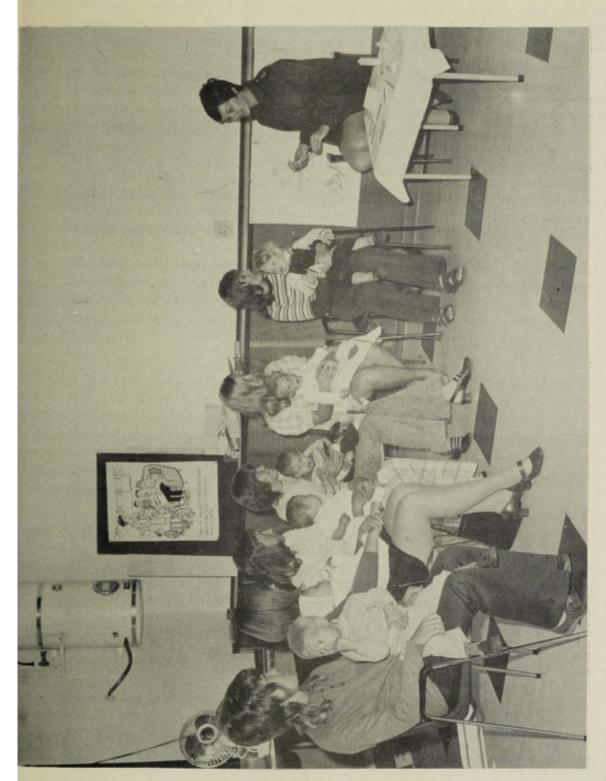
Much in-service training was carried out in an attempt to integrate family planning and total health care.

School holiday programmes were continued. In several institutions for Whites and for Coloureds programmes included discussions on sexually transmitted diseases, family planning, menstruation and fertility.

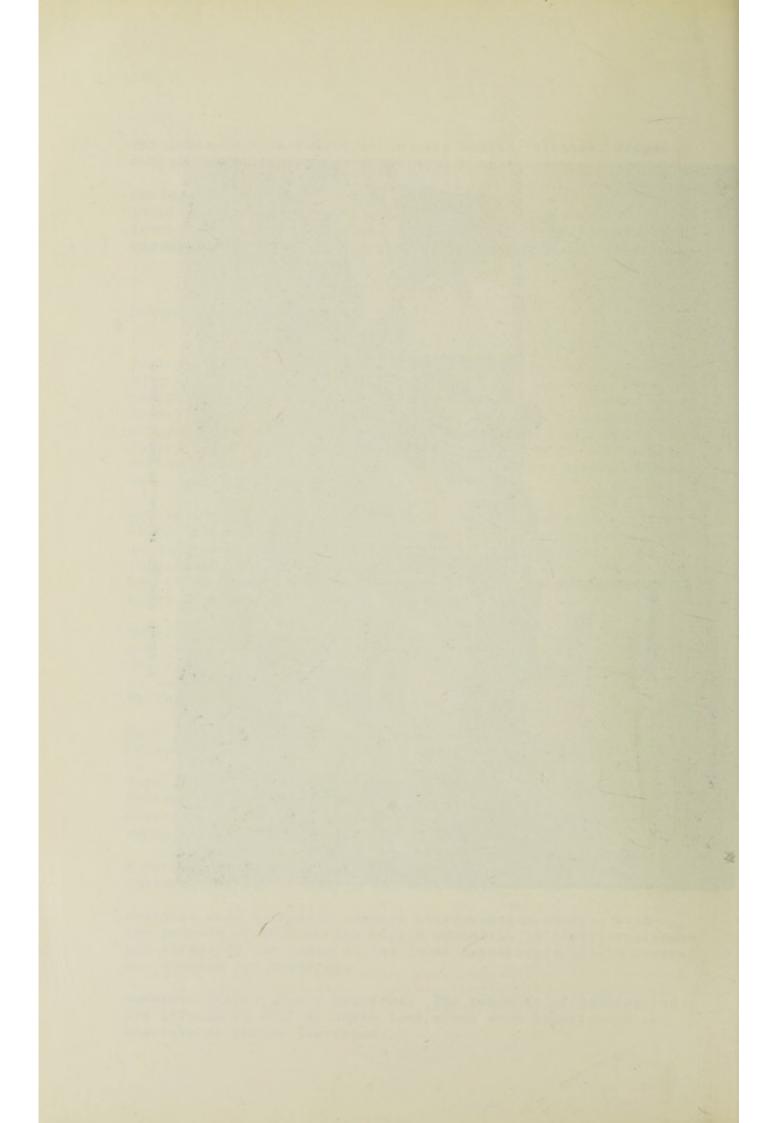
A parent education trial project dealing with the needs of children was well received and attended.

Meetings were held with workers at recreation centres with the purpose of introducing health education in their programmes and stressing the value of the local authority's health centres and clinics for referral.

Numerous displays were prepared. The subjects of smoking and its effects as well as smoke-free zones were highlighted in displays at public libraries.



A health education session on family planning



At the request of the Department of Information and the State Department of Health, an overseas team was assisted in making a television programme on the urbanisation of Black families.

A health education resources centre is being established so that tested films, slides, film strips, posters, pamphlets and models will be catalogued and made available to health education workers.

To reach a greater section of the population, health education must be taken to recreation clubs, voluntary organisations, institutions, commerce and industry. Evening sessions are advocated for parent education classes. Health education in long-term illnesses and degenerating diseases will be considered.

During the year the Chief Medical Officer (Health Education) undertook a tour to study health education in Europe and attended an international congress in France.

blood pressure levels tit the that said its relationship

SECTION V -----

RESEARCH ASSESSED TO LONG BOOK AND TOWN AND TOWN AND THE PROPERTY OF THE PROPE

The two most urgent reasons for establishing a research division in the Health Department of Johannesburg were firstly the need for continually assessing and monitoring expanding health services, and secondly the need to compile and evaluate worthwhile data with regard to changing disease patterns and mortality in the multiracial setting of the city. With rapid westernisation and urbanisation of the Blacks, health statistics will become more uniform, and differences based on different immune responses and racial characteristics may become obscured.

With the establishment of this division in 1972, the personnel, under the direction of an Assistant Medical Officer of Health, consisted of one medical officer and one public health nurse, both seconded from the family health service.

Great difficulties are still experienced in attempting to use for research purposes the statistical data submitted routinely by the various sections of the Department. There is a great lack of uniformity aggravated by changes in the organisational structure of the Department in 1971. Retrospective studies attempted, such as the assessment of cervical cytology findings based on Pap smears taken at family planning clinics, and the value of prophylactic home visiting and follow-up of gastro-enteritis as well as health education in the Black areas, were frustrating because of incomplete and inconclusive data.

A pilot study to assess the prevalence of rickets in a Black community was carried out but it was found that extensive liaison would be required with hospital services, with the result that this project was deferred for the present.

Research Projects

#### 1 Blood Pressure Survey

Field work relating to this study was carried out in conjunction with the Professor of African Medicine at the University of the Witwatersrand to determine the range of blood pressure levels in the Blacks and its relationship to selected physical and environmental factors. A total of 10 360 adults of both sexes were assessed of which 10 000 random cases of varying ages were examined at the Bantu Registration Examination Centre. Five Black sisters from the polyclinics were specially trained to take accurate, standardised blood pressure recordings and complete questionnaires. Blood specimens were tested for chemical analysis. Returns were checked in preparation for computerisation.

#### 2 Ischaemic Heart Disease

A retrospective study on variations in mortality levels of ischaemic heart disease in different population groups was finalised. Once again the inadequacy of available data was evident but the upward trend of deaths in Whites from this condition and the rarity of cases in Blacks was confirmed. Within the limits of this study no indication was found of an increase in the mortality rate of Blacks as a result of urbanisation and westernisation.

#### 3 Deaf Screening

Facilities and methods used for deaf screening as well as for diagnosis and treatment of hard-of-hearing persons of all races in the city were studied. The data has been collected and the project will be completed in 1974.

4 Evaluation of a Comprehensive Community Health Service Project at the Southern Areas Health Centre

The implementation of recommendations for the introduction of a comprehensive health service in relation to the Southern Areas Health Centre had been in the field since the beginning of 1972. As a second health centre was in the process of being erected in the White areas, an urgent assessment of what had been accomplished at the first health centre in the White areas was needed.

In addition to the collection of statistics for the period January 1972 to July 1973, a field study was carried out for a period of one week involving both the personnel at the Health Centre and a comparable group of public health nurses working in similar socio-economic areas in the rest of the city. Their activities were studied to decide which services could with benefit be extended to other health services. This evaluation will be completed in 1974. Recommendations made as a result of this study will form the basis for further research.

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SECTION VI COM CONTROL OF CONTROL

INFECTIOUS AND NOTIFIABLE DISEASES
OTHER THAN TUBERCULOSIS

The total number of in-patients treated at the Fever Hospital for Whites during 1973 was 1 694 (1 764) accounting for 12 339 (12 514) patient days.

Of the 1 672 cases admitted during the year, 1 099 were private patients and 319 hospital patients, 254 coming from other local authorities. There were 12 deaths.

Non-White cases of infectious diseases are still being treated at the C.M.R. Hospital which is administered by a private company with medical cover provided by the Department. The reduction in the number of cases admitted during the year was mainly due to a decrease in the number of measles cases. Admissions totalled 1 115 (1 723) of which 434 were local cases.

In order of numerical importance the first 4 final diagnoses in Whites were gastro-enteritis, viral hepatitis, meningo-encephalitis and bacterial meningitis.

In the case of non-Whites measles was the most frequent diagnosis. There were 350 (336) cases of gastro-enteritis in Whites at the Fever Hospital, of whom 2 died. All cases admitted suffering from this disease were private cases. Considering the high number of admissions, the mortality rate was low.

Viral hepatitis was made a notifiable disease in Johannesburg at the end of 1966. Though many cases were admitted to hospital in 1973, very few have been Australia antigen positive in contrast to findings in 1972. A number of cases originally referred with the provisional diagnosis of viral hepatitis proved to be suffering from malaria. There were no deaths in Whites but 7 in Blacks.

A total of 338 suspected cases of meningo-encephalitis in Whites were admitted but only 171 finally confirmed. This disease is epidemiologically important, but in the vast majority of cases it is a relatively benign condition with rapid recovery and few sequelae. Nevertheless there were 2 deaths.

A total of 73 Whites were diagnosed as suffering from bacterial meningitis, 4 dying of meningococcal infection.

Measles cases showed a welcome reduction in number. In Whites there were 92 (253) admissions, 46 (157) with complications or double pathology. There were no White fatalities. Of the 652 cases in Blacks, 244 local cases accounted for 16 out of 43 deaths.

In Blacks diphtheria occurred in 3 local and 4 imported cases with one death. Two local and 2 imported cases of poliomyelitis were admitted to the C.M.R. Hospital as well as 8 cases from other local authorities. No diphtheria or poliomyelitis cases occurred in Whites.

The rapid detection of one case of cholera and its detention at the Fever Hospital was followed by identification and surveillance of 9 contacts.

Twenty-two cases of typhoid were notified, 19 of which occurred in Blacks. In addition, 15 cases were admitted to the C.M.R. Hospital from other local authorities.

Two cases of trypanosomiasis and 28 cases of malaria contracted these diseases outside the municipal boundaries.

Venereal Diseases

The incidence of venereal diseases is still on the increase as can be seen in the attendance returns from 4 urban clinics, the Bantu Registration Examination Centre and clinics in Soweto, Noordgesig and Western Coloured Township.

Routine examination of males at the Bantu Registration Examination Centre identified 1 417 (1 079) new cases of syphilis and 1 944 (1 686) of gonorrhoea. In females examined new cases totalled 606 (669) and 69 (17) respectively. Gonorrhoeal infections in females are probably often asymptomatic or masked by other clinical problems.

At the Bantu Registration Examination Centre it was noted that penicillin-sensitive cases seemed to be on the increase. In spite of all precautions 2 or 3 individuals still showed marked anaphylactic reactions after penicillin injections and had to be hospitalised.

(STATISTICS FOR THIS SECTION ARE CONTAINED IN APPENDICES L AND M)

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SECTION VII

The incidence of tuberculosis does not seem to decrease from year to year.

Breakdown of notified cases into age groups showed the highest number in the Coloured population to occur in those individuals under the age of 5 years or over 30 years. In non-mining Blacks the lowest numbers were between the ages of 10 and 20 years with very high numbers under the age of 5 years and a steady increase from the age of 20 years onwards. The finding in non-mining Blacks is reflected in the following table.

#### Notified Cases of Tuberculosis in non-mining Blacks

Age in Years	0 - 4	5-9	10 - 14	15 - 19	20 - 24	25 - 29
Males	238	147	32	43	130	141
Females	226	127	38	75	131	88

Age in Years	30 - 39	40 - 49	50+	TOTAL
Males	322	405	485	1 943
Females	138	103	139	1 065

(Of these 3 008 cases, a total of 2 984 had pulmonary tuberculosis.)

Tuberculosis Control Programme

The tuberculosis control programme initiated in 1968 was continued for all population groups except Whites.

#### Number of 70 mm X-rays taken

Bantu Registration Examination Centre Tuberculosis Control Programme (Urban	137	429	(130 775)
Areas)	74	295	(64 639)
Tuberculosis Control Programme (Black Areas)	30	763	(42 073)
	242	487	(237 487)

The total number notified as cases of tuberculosis during the year, as a result of their X-ray findings, was:

Bantu Regist	ration E	xamination	Centre	199 9 100	10.0	268
Tuberculosis	Control	Programme	(Urban	Areas)		214
Tuberculosis	Control	Programme	(Black	Areas)		266
						748

In terms of Government Gazette No R 1754 of 28 September 1973, it has been made mandatory for parents to ensure that their children receive BCG immunisation within 6 months of birth. It is accepted practice in non-White population groups for all new births and tuberculosis negative contacts to be immunised. During 1973 twenty-five schools and 8 creches were visited in Black areas for this purpose. Routine BCG immunisation for newborn White infants will be offered in 1974 at immunisation clinics preferably before the age of 2 months, but is contraindicated in infants who are ill, suffer from eczema, who are underweight, on steroid treatment or suffering from hypogammaglobulinaemia.

In March 1973 a Japanese BCG vaccine was introduced replacing the British vaccine. A comparison of the 2 vaccines was made by studying reactions to vaccination in 2 groups of 100 children.

# School Programme for Blacks (including creches)

#### Number of children:

Heaf tested		٠						31	097
Vaccinated with BCG			·Servic	. 10		kurb	×	27	710
X-rayed								3	532
Given INAH tablets								3	281
Notified as suffering	from	1	tubercu	los	i	s	•		172

The majority of principals and teachers were co-operative.

There is a great need for a planned health education programme to be implemented in the schools.

Presently 10 Black tuberculosis clinics provide 16 sessions weekly. In the Coloured and Asian areas the tuberculosis service is being integrated into the family health service.

Social workers are present on clinic days and work in collaboration with SANTA, investigating cases and obtaining assistance for the Association. Non-White patients receive supplementary foodstuffs at these clinics.

At the Charles Hurwitz SANTA Centre at Baragwanath, with 430 beds, medical care is offered by tuberculosis medical officers of the Department. All patients not requiring immediate hospitalisation at Baragwanath Hospital are referred to the transit ward at the Centre for referral to other centres, admission, or treatment in the out-patient department. The transit ward which was established in 1972 is now fully operative.

At the C.M.R. Hospital 391 local cases of tuberculosis were admitted and 339 from other local authorities. Of these cases 87 died.

(STATISTICS FOR THIS SECTION
ARE CONTAINED IN APPENDICES
N TO R)

+ + + + +

SECTION VIII
CURATIVE, MIDWIFERY
AND DENTAL SERVICES

Curative and Midwifery Services

The out-patient, domiciliary, midwifery and dental services continued according to a well-established pattern. Curative and midwifery services were conducted from polyclinics in the Black and Coloured areas on behalf of the Transvaal Provincial Administration.

The Council's decision in 1972 to equate salaries of medical practitioners and dentists irrespective of race attracted the services of 9 non-White medical practitioners and 2 dentists to the municipal service. The White medical practitioners still working in the clinics were, with the exception of 4, well beyond the retiring age.

One clinic in the areas for Blacks was completely staffed by non-White personnel.

Dental Services

Dental services were rendered from 4 clinics in Soweto and for 3 months from a clinic in Eastern Bantu Township. Acquisition of new equipment and conveyance allowed for an extension of prophylactic dentistry into schools and creches. An increase of 57% attendance for conservative treatment was noted at one clinic where a bus had been made available to transport the children between the schools and the clinic.

# Examination of Black Workseekers : Cases of Syphilis

engelts seingquat	197	3	197	2	197	1	197	0	1969		
na Property	m	f	m	f	m	f	m	f	m	f	
Number of new cases diagnosed	Dr. FDA	606	1 079	669	876	908	1 018	860	1 555	696	
% of total examined	1,1	2,2	0,8	2,6	0,6	3,4	0,7	3,7	1,1	4,1	

m = males

f = females

(STATISTICS FOR THIS SECTION ARE CONTAINED IN APPENDIX T, AND FOR VENEREAL DISEASES IN APPENDIX M)

+ + + + +

SECTION X
ENVIRONMENTAL HEALTH

At the end of the year there were 36 vacancies for learner and qualified health inspectors and pest control overseers. Ten out of 46 posts for health inspectors were filled by pensioners employed on a temporary basis. Although 6 individuals qualified and were appointed as health inspectors, the continuing shortage of personnel as well as the large proportion with limited experience seriously affected the proper functioning of the Environmental Health Branch. Assistance was however provided during the latter part of the year when permission was obtained from the Council to allow 8 pest control overseers to take limited action with regard to public health nuisances observed during their routine inspection of premises for rodent and mosquito control.

One of the major responsibilities of the Environmental Health Branch is the approval of business premises for the issue of trading licences. At present persons are allowed to commence trading before premises comply with the Council's by-laws. The result has been that many businesses trade for lengthy periods without effecting compliance, thus necessitating numerous inspections and reports. Active assistance by senior and divisional inspectors was needed to make efficient handling of heavy demands, especially in the central city area, possible.

Reports were submitted on 12 applications for new townships.

Development in the southern suburbs is extremely rapid and has created a tremendous demand for new services, particularly sewer reticulation.

The Carlton Centre complex is virtually structurally complete, with the hotel, 19 food shops and 115 non-food businesses operative. Work on the Oriental Plaza is progressing well. Extensive building activities are in progress at the City Deep fresh produce market and abattoir.

At the proposed site for the Witwatersrand College for Advanced Technical Education difficulties have been experienced in evacuating buildings for demolition, preventing the dumping of waste material on vacant stands, and protecting unoccupied buildings from vandals. In other White areas illegal occupants are still found in dwellings and shacks.

The 11 caravan parks and 2 pleasure resorts within the municipal area have been well maintained. The swimming pool at Van Wyk's Rust has not been reconstructed but a chlorination plant has been installed and the bacteriological standard of the pool water improved. The water of the Wemmer Pan has been treated regularly and no recurrence of the nuisance caused by the excessive breeding of midges has been experienced.

Prosecutions are resorted to when necessary for contraventions of the Public Health Act, the Food, Drugs and Disinfectants Act No 13 of 1929, and the Council's by-laws.

Pr	osecutions		
Total number of persons p	rosecuted	1973 818	1972 821
ectors, the castingles abo	Toshcuteu	appointed	
Total number of charges	sprid ont strue	917	1 006
Found guilty/	and a many self	623	757
Total fines imposed .		R12 715	R10 530

In addition 283 (234) spot fine tickets were issued. Of these 132 were paid and 10 withdrawn. Fines resulted in R2 037 being paid. The remaining cases were disposed of by normal summons proceedings.

Samples of foodstuffs were taken under the Foodstuffs, Cosmetics and Disinfectants Act of 1972 as amended and in terms of the Standard Milk By-laws. Water samples were submitted to the Division of Health Chemistry, State Department of Health, the South African Institute for Medical Research and the Laboratory and Technical Services Branch of the Department for tests, analyses or identification in terms of the Council's Sanitation By-laws.

#### Food Control

The control of food-handling premises received priority. In most cases a satisfactory standard of hygiene was maintained. Practical advice proves beneficial in the better class establishments, but in poor areas licensees are unable to afford the expense of modernising and re-equipping their premises. Frequent prosecutions, although warranted, may result in a business being closed, with the field left open to illegal food suppliers over whom no control can be exercised. The litter created by these hawkers can also not be reduced while penalties imposed are too low to have a deterrent effect.

Illegal trading is on the increase in developing Coloured and Asian areas with inadequate shopping facilities, as well as at schools and bus termini in the central city area. In Black townships licensed hawking is allowed from stalls provided for trade in fruit, vegetables and offal. In Lenasia however 14 out of 21 applications for new hawkers' licences were refused as applicants intended using residential premises for business purposes.

Numerous requests to examine consignments of food were received, especially following mechanical breakdown of a refrigeration plant. A total of 32 626 pig carcases imported on permit by 3 meat processing factories were submitted for re-inspection at the abattoirs or alternatively at the factories.

Following tests carried out on the keeping qualities of cold meats as sold in retail stores, an amendment to the Food Handling By-laws in regard to refrigeration temperatures was submitted.

There were 7 reported outbreaks of food poisoning involving a total of 45 persons. One outbreak, involving 14 Black building workers and resulting in one fatality, was suspected to have

been caused by the ingestion of food contaminated with an insecticide. Two outbreaks involving 8 and 14 persons respectively were due to the consumption of smoked turkey contaminated with Clostridium perfringens. Recommendations have been made following these 2 latter outbreaks to improve methods of handling dressed poultry especially turkeys. The causes of the other 4 outbreaks could not be determined. Out of a total of 1 499 samples taken under the Foodstuffs, Cosmetics and Disinfectants Act of 1972, as amended, and submitted to the Division of Health Chemistry, State Department of Health, 59 did not comply with prescribed standards.

A total of 148 specimens and 408 swabs were submitted to the S.A.I.M.R. for bacteriological examination and identification. A 46,7% failure rate was obtained for utensil swabs tested by the Laboratory and Technical Services Branch.

Hygiene Control

Health education of students, food-handling personnel and management in hotels, restaurants, food factories, canteens and hospital kitchens constitute the main activity of the Hygiene Control Division. Practical demonstrations and lectures, supplemented by films and slides are organised, dealing with food-handling, cleanliness and layout of kitchens and improved methods of routine cleaning.

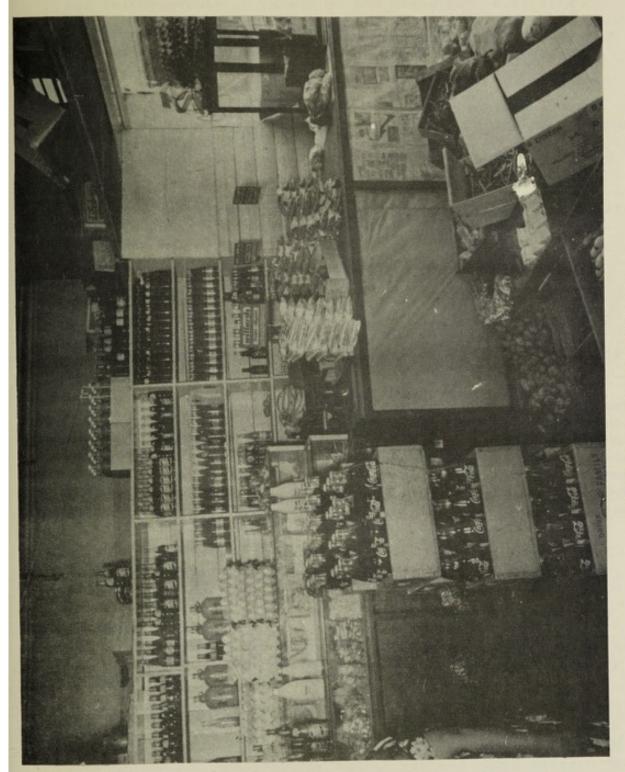
The 2 Black health inspectors have been able to converse with a total of 328 Black employees in their home language. Requests for more frequent visits by these health inspectors have been received from the management of hotels and restaurants as the turn-over of Black food-handling personnel is very high.

Regular inspections of nursing homes, homes for the aged and homes for the socially inadequate are made to attend to general sanitation, cleanliness in kitchens, food-handling and laundry facilities. For this purpose close liaison is maintained with the personnel of the Nursing Homes and Midwives Division of the Department.

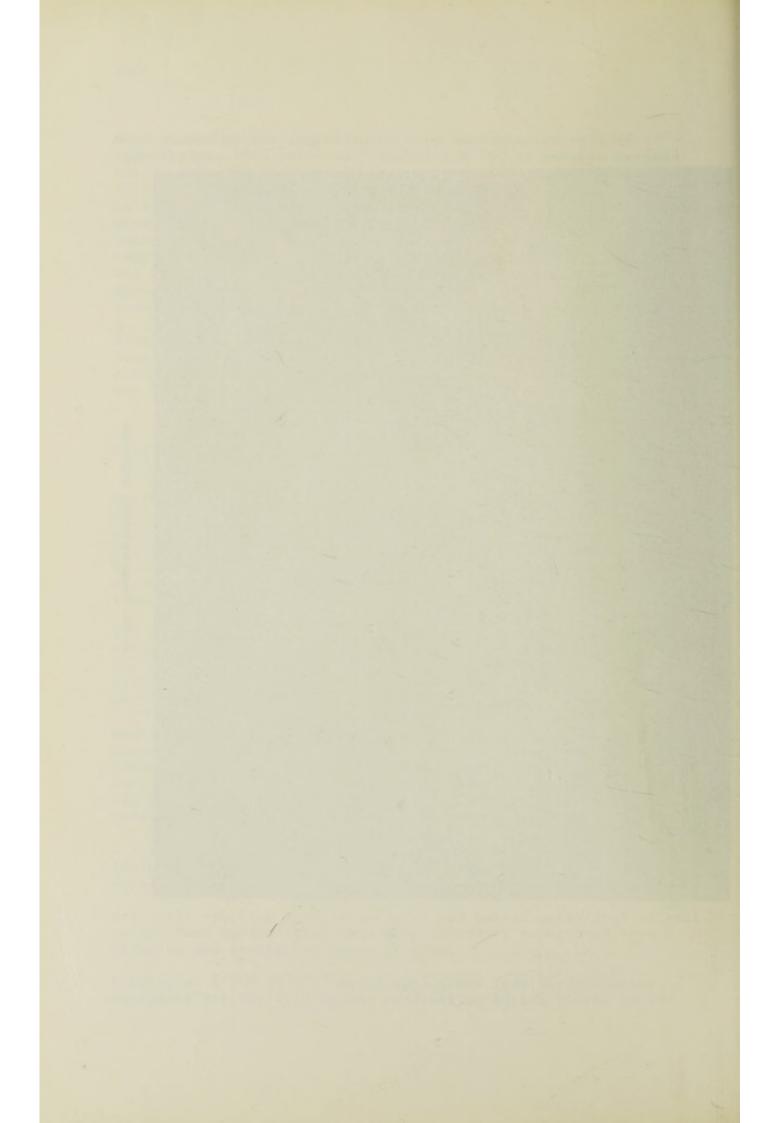
A total of 426 plans involving food-handling premises and including nursing homes and homes for the aged were examined for compliance with the Council's Public Health By-laws.

All major sporting functions, fetes and public gatherings as well as the Rand Agricultural Show were carefully supervised from a catering and sanitation point of view.

A total of 2 300 (2 054) swabs were taken from food-handling equipment for bacteriological examination during visits to 190



A food shop warranting inspection



(147) premises. Fifty percent (30%) of the articles swabbed had colony counts in excess of the permitted count of 100. This increased percentage as compared with the previous year is attributed to the sampling of equipment from some of the smaller tea rooms and restaurants which had not previously been visited for this purpose.

Premises where excessive colony counts were obtained were re-visited. Advice was given with regard to washing procedures for food-handling equipment. Legal proceedings were instituted successfully in 2 cases where no improvements were effected following advice.

An investigation was also carried out into the efficiency of cleaning and disinfecting procedures in 5 meat processing factories.

Milk

The average daily consumption per person of pasteurised milk in the municipal area was  $0.25 \ell (0.19 \ell)$  during 1973.

Permits were issued to 661 (620) milk producers. Their average total daily production was 343 700 l, all of which was transported to the city in milk tankers. Milking machines were used by 532 producers. In accordance with the Standard Milk By-laws supervision was undertaken by adjacent local authorities when these farm dairies were situated outside the municipal borders. This arrangement resulted in reciprocal supervision of 51 and 64 farm dairies by the Germiston and Johannesburg Health Departments respectively.

Within the municipal area 5 plants pasteurised the 310 800  $\ell$  of milk consumed in the city daily. Only 28 300  $\ell$  were introduced daily under permit from milk pasteurising plants operating outside the municipal area. All milk and milk products are tested according to the methods prescribed in the Standard Milk By-laws which were accepted in Johannesburg in November 1972.

A total of 5 453 samples of raw milk was taken on producers' premises. Of these, 2 347 samples were submitted to the Laboratory and Technical Services Branch for bacteriological examination and analyses for butter fat and added water. The remaining 3 106 samples were submitted to the Abattoir's Laboratory for biological tests and to determine the presence of inhibiting agents.

Of the samples examined bacterioligically, Escherichia coli type 1 bacteria was present in 29,8%.

At the Abattoir Laboratory positive tests were obtained for mastitis, tuberculosis and brucellosis in 331, 2 and 1 519 samples respectively. In addition to the positive ring tests for brucellosis, 343 showed positive agglutination tests. Of 57 samples showing the presence of inhibiting agents, 1,8% (2,6%) were due to penicillin. Remedial action was taken.

A very distrubing finding by the Laboratory and Technical Services Branch using the Hortvet Cryoscope method to establish the presence of added water in milk was that 6,2%, 9,8% and 34,4% of samples of raw milk, tanker milk and pasteurised milk respectively contained added water. Samples of raw milk are collected from the refrigerated bulk collecting tanks on the farms and tanker milk from the transport tankers when their loads are discharged at the pasteurising plants. By submitting smaller numbers of milk samples to the Division of Health Chemistry, State Department of Health, it was possible for that laboratory also to use this method and so provide a legal basis for prosecution by confirming the findings of the Laboratory and Technical Services Branch. Following action taken by the Department, only 9,7% of 62 further samples taken of pasteurised milk contained small percentages of added water.

To determine the efficacy of the tanker washing procedures at the 5 milk pasteurising plants, 159 swabs from milk contact surfaces after washing gave unsatisfactory results in the majority of cases. More supervision will be needed.

A total of 1 299 miscellaneous samples including samples of cream, butter, yoghurt, cottage cheese and fruit juices established that 154 samples did not comply with prescribed standards. Legal proceedings were instituted against 81 offenders. The standard of yoghurt was generally good. Cottage cheese could be improved. Butter milk and sour milk were poorly handled and improvement in production is urgently required.

Ice cream and sherbet samples were obtained from 53 soft serve machines in retailers' premises and 125 from manufacturers' premises. Sixteen samples showed the presence of Escherichia coli type 1 bacteria and one showed an excessive total colony count. As established in previous years, most of the unsatisfactory samples were obtained from the retail end of the selling line, particularly soft serve products.

Milk hawking which used to be prevalent in the south-western areas has been replaced almost completely by licensed milk shops. Only 2 illegal hawkers were found. Of 34 samples of milk taken in these areas, 33 were satisfactory.

Water

The average daily consumption of water was 406 Ml (360 Ml). Usually the quality of potable water tested was within the desirable limits prescribed by the S.A.B.S. Specification 241 - 1971 for coliform organisms. There was a 50% improvement in the Escherichia coli counts over those obtained in 1972. As in previous years, most of the unsatisfactory results were obtained from tests on overhead tanks and the random samples sent in from power stations and sewage works.

The general bacteriological standard of swimming bath water was found to be similar to that obtained in previous years. Promulgation of new swimming pool by-laws is awaited, which would make it possible to test all private pools offering bathing facilities to the public. There has been an improvement in the bacteriological quality of borehole water from farm dairies supplying milk to the city. However, 58,5% of samples contained coli-aerogenes organisms and 43,4% Escherichia coli. The importance of pure water for washing dairy utensils cannot be overstressed as this could be one of the largest contributing factors to the poor quality of raw milk delivered to Johannesburg.

Due to Rand Water Board reticulation not being available to the agricultural plots in the southern areas, boreholes in these areas are in general use for domestic purposes. Water samples were taken from the 71 boreholes and following cleaning and disinfection of the holding tanks, all, except 2 which are situated on unoccupied property, have proved to be satisfactory.

Seventy-eight applications for the testing of borehole water supplies in terms of the Council's Sanitation (General) By-laws were received. Of these, 52 were found to be suitable for potable purposes on the initial test, 15 required remedial measures and the rest will be re-tested in 1974.

Inspection of Plans

Due to the increase in size and height of buildings now being erected, it is becoming increasingly difficult to comply with the Council's Building By-laws with regard to the provision of natural means of lighting and ventilation to all habitants' rooms.

The number of building plans examined for compliance with the relevant Building, Drainage and Public Health By-laws totalled 13 127 (12 124). The estimated value of buildings for which plans were approved was R91 587 034 (R98 291 632). The 656 plans dealt with in the south-western area consisted mainly of alterations, drainage and extensions to buildings.

Slums

Extensive slums action was not taken because of continued housing shortage in the lower income bracket and was confined to vacant and derelict properties. A total of 166 slum declarations are still outstanding. The terms of the slums order has been complied with in 50 instances, but the declarations have not as yet been rescinded. One property, declared a slum under the Slum Amendment Act of 1971, has been demolished. Another was dealt with by the Slum Clearance Court but a decision was held over until January 1974.

Eight owners of properties considered to be in a slum condition received courtesy notices. Of these properties, 4 have been demolished, one renovated and 2 are in the process of being renovated.

Various other activities of the section are reflected below.

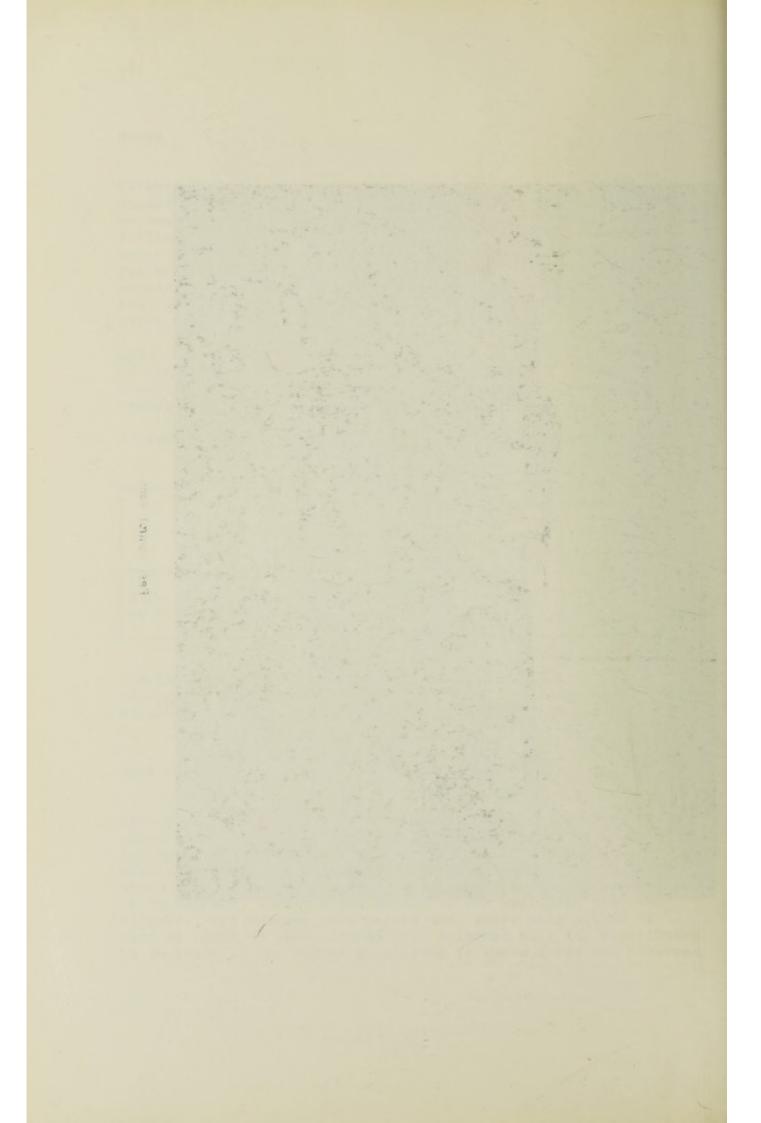
of Attento most artist	Granted		Refused		Outstanding	
determine the officery of	1973	1972	1973	1972	1973	1972
Demolition permits	346	350	4	42	17	11
Conversions (residential to business premises)	38	30	5	14	7	11

A total of 218 (281) premises were demolished and 15 (13) converted, not including those demolished or converted by Government Departments or the Provincial Administration.

Pest Control

Anti-rodent measures, which included the surveying of properties for rodent infestation and the setting of traps and gassing of premises, were carried out throughout the municipal area. A large veld area was also surveyed in the south-western and southern districts reaching to the boundaries of Roodepoort, Alberton and Germiston and including the Rand Airport. All burrows were gassed and, where this method of control could be used with safety, poisoned bait was distributed. No increase in the rodent population in these areas was observed.

Pest control vans



All rodent carcases, other than those submitted for test purposes, are now incinerated in the incinerator which has been installed at the Pest Control Depot. All examinations of rodents submitted to the South African Institute for Medical Research proved negative for Pasteurella pestis but 2 from different areas and caught at different times were found to have traces of infection by Rickettsia organisms which could cause tickbite fever. Further specimens from these areas showed no evidence of this infection.

All water courses, dams, swamp areas, vleis and accumulation of stormwater on ungraded roads and potholes were sprayed for the control of mosquitoes. No malaria vectors were identified amongst the batches of mosquitoes submitted to the South African Institute for Medical Research for identification. Specimens were identified as being of the Culex and Aedes aegypti species.

No specimens of snails examined by the Institute showed signs of bilharzia infection.

All municipal compounds and refuse tips were sprayed. Numerous requests by various municipal departments were attended to, involving the eradication of bugs and cockroaches. The annual fogging of sewers and stormwater drains for cockroaches was undertaken in conjunction with the Sewer Maintenance Branch of the City Engineer's Department.

#### Refuse Removal

In spite of an anti-litter publicity campaign and the measures adopted by the City Engineer's Department to facilitate the disposal of garden refuse, the nuisance caused by illegal dumping of waste material on vacant stands, streets and open spaces has continued to be a major source of complaint.

Inspections, notices and prosecutions in connection with this problem absorb a great deal of valuable time. Three refuse tipping sites under the control of the City Engineer's Department have been regularly inspected and generally well controlled.

Hundreds of derelict cars and thousands of tons of refuse have been removed in the south-western areas at the request of the Department. Disused cars on private property continue to be a major nuisance because of unsightliness and rodent harbourage.

Composting sites under the control of the Parks and Recreation Department have been well controlled. Race horse stables have been routinely inspected. Many complaints regarding poultry in built-up areas were received and given attention.

A total of 1 392 881 (1 243 454) tons of refuse was removed departmentally and by commercial and industrial organisations. The average length of streets swept daily was 2 210 km (2 073 km).

## Public Conveniences

One new public convenience was constructed and put into service at a motorway intersection in the southern area to cater for the numerous Black bus passengers in that area.

Sewage Disposal

Seven southern townships were brought onto municipal sewer during the year. Twelve soil porosity tests were carried out, of which 11 were found to be suitable for French drains.

Samples of secondary and tertiary treated effluent from the 4 sewage purification works were tested for E. coli count on a weekly basis and samples from the receiving river waters were tested monthly. Samples of activated sludge from the Palmietfontein treatment plants were monitored for biological activity.

The average daily flow of sewage was as follows:

	1973 Ml	1972 Ml
Northern Works	126,0	131,0
Klipspruit	111,6	116,9
Olifantsvlei	120,0	99,6
Palmietfontein	7,9	8,7
TOTAL TOTAL	365,5	356,2

In the White areas the volume of sewage removed by vacuum tanks was 29 679 M $\ell$  (45 724 M $\ell$ ). The number of pail services rendered per night was 208 (225).

(STATISTICS FOR THIS SECTION ARE CONTAINED IN APPENDICES U TO X.)

SECTION XI

LABORATORY AND TECHNICAL SERVICES

The activities of this Branch are extremely diversified, providing microbiological and analytic chemistry services to municipal departments as well as laboratory services at 4 sewage purification works for the City Engineer, at 2 power stations for the Electricity Department, and at the Gas Works for the Gas Department. The service provided to the Bantu Beer Laboratory of the Non-European Affairs Department ceased when that Department was taken over by the West Rand Bantu Affairs Administration Board.

Following intensive investigation, the decision has been taken to automate all future analytical procedures where possible. It is also now possible to cost reasonably accurately most of the analyses carried out by this Branch.

Many facets of administration within the Branch have been changed. A management advisory committee has been appointed, consisting of the Chief Scientific Officer, his Deputy and 2 senior divisional heads.

#### Microbiological Division

The benefits derived from the new laboratory occupied by the microbiological division since June 1972 have become very obvious. Without an increase in staff, the number of samples handled exceeded the total for 1972 by 27,8%, covering some 40 000 individual estimations. These figures exclude cytology slides examined exclusively by the cytotechnician. The increase was in the main due to inclusion of milk products and fruit juices for testing under the Standard Milk By-laws and monitoring of food factories and restaurants under the Food-Handling By-laws for food premises hygiene. Expansion of the services of this division is expected to progress at the rate of approximately 14% per year, most of which will be on behalf of the City Health Department.

Analytical Chemistry Division

Considerable increase in routine work prevented the analytical chemistry division from undertaking special investigations of any magnitude but typical problems being dealt with relate to agar plate count tests for fruit juice, differentiating between

reactivated and residual phosphate in pasteurised milk and cream samples, developing standards for cold meats on sale to the public, continued testing of sealants for use in the construction of reservoirs and sewage installations for biodegradability according to an accelerated test, as well as the development of a mastitis control programme.

The Abattoir and Livestock Market Department submitted 152 samples needing 886 determinations and the Environmental Health Branch submitted 184 samples needing 1 838 determinations. Of particular interest were several tins of powdered milk which were found to contain large concentrations of lead. Subsequent tests on further batches of this product indicated that the high levels were isolated findings.

Special projects included research into dagga and a study of certain compounds, including steroids, carcinogens and alkanes, found in trace amounts in sewage effluents.

Water Pollution Control

Research work in relation to water pollution control has been carried out with the assistance of the Research Co-ordinating Committee. Larger projects recommended for consideration by the Water Research Commission include Johannesburg participation in an investigation by an overseas consultant to determine requirements in South Africa in regard to the control of industrial effluents and optimum siting of regional waste water plants in the Witwatersrand area.

The disposal of industrial sludges has also been shown to be a major problem requiring intensive research, and in this regard proposals have been drawn up for the control and monitoring of seepage from land fill sites.

for food premises hydiene. Szpansion of the parkings of this division is expected to progress at the rate of approximately

Considerable increase in routine work preventey the enalytical chemistry division from undertaking special investigations of

SECTION XII
AIR POLLUTION CONTROL

Legislation

Air pollution legislation was amended by the introduction of the Atmospheric Pollution Amendment Act, 1973 (Act No 17 of 1973). Regulations may now be made to prohibit the use in dwelling houses of any fuel burning appliance which does not comply with specified requirements.

Penalties have been increased, except under Section 18 which remains unaltered, with regard to all contraventions including excessive smoke from house chimneys and diesel vehicles.

An amendment to Section 37, dealing with the procedures for diesel smoke control, has been a big improvement as the roadside test of smoke density may now be used as a criterion of emission. Approximately 1 500 notices have been issued to drivers of diesel vehicles. Further warning notices have been required by 850, but as yet no prosecutions have been instituted. No action is taken presently in Johannesburg unless the emission measures 80 or more on the Hartridge scale.

Smoke Control

The smoke control zone programme has been speeded up and is expected to be in operation before the end of 1977. The fourth zone which comprises the whole of the area newly incorporated in the southern part of the city became effective on 5 September 1973. The fifth and sixth zones will come into operation in 1974.

The introduction onto the market of gas and electric fire-lighters allows coke or anthracite to be successfully ignited without the smoke that accompanies ignition with paper and wood, so the problem of the slow combustion water heater has to some extent been solved.

A subsidy of R25 introduced by the Non-European Affairs Department for anyone purchasing an approved stove has been very effective to help the 'smokeless' stove to become firmly entrenched.

Because of difficulties with instruments and the processing of data, no reliable information has been obtained in regard to sulphur dioxide, carbon monoxide and oxidant atmospheric levels.

Applications for approval were received by this division for 160 appliances; 312 complaints were handled, 96 plans were scrutinised and given attention and approximately 6 000 major inspections were recorded.

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SECTION XIII
NOISE ABATEMENT

A shortage of staff for the major part of the year and difficulties associated with the need for personnel to work at night and weekends has resulted in an enforced curtailment of services.

To facilitate administration of the division, the city has been divided into a central city zone and 4 peripheral suburban zones.

Legislation

Drafting of legislation is proceeding on several fronts. A
Noise Abatement Act is being considered at national level which
would, amongst other things, incorporate standards for motor
vehicle emissions. Pending promulgation of such legislation,
use will be made by the Council of the requirements laid down
by the Economic Commission for Europe. The Law Adviser of the
Council and the Noise Control Officer have both served on the
National Co-ordinating Committee responsible for the drafting
of this legislation.

At local authority level efforts are being made to draft by-laws for the control of noise to be included, if found suitable, in the above national legislation.

Comment has been made on the proposed building by-laws being drafted by the South African Bureau of Standards for the C.S.I.R.

A special committee was scheduled to make proposals regarding the control of dogs in particular.

Powers to ticket persons contravening existing by-laws relating to noise abatement have been sought for the staff.

#### Technical Development

Assistance has been given in making recommendations to improve the acoustics of the City Hall. Structural alterations have been made to prevent the ingress of externally produced noises from the air conditioning plant and the surrounding streets. Acoustic treatment has aimed at reducing the reverberation time at 500 Hz from 3,6 to 1,9 seconds with a general overall noise level of 35 dB (A). Specifications for new chairs had been drawn up so that the acoustics of the Hall would not be greatly altered if the seats were not all occupied.

The first phase of the telemetry programme has been completed and a working group formed to make recommendations for the expansion of the system. The basic objectives of the system are to enable data to be gathered in the field or at the source of complaints and transmitted immediately to a central receiving station for recording and evaluation.

The technical feasibility of constructing a barrier 7 m high between residential sites and industrial areas has been assessed following numerous complaints from residents in a particular township. Calculations have been performed to show the beneficial reduction in noise levels that will take place in the residential sites if this proposal is carried out.

Council departments have become increasingly aware of the need to decrease noise emission of plant used in execution of duties. Limitation of the maximum number of revolutions possible in refuse collection vehicles and the purchase of 'quiet' compressors has been noted, together with increasing cognisance of noise emission in the drafting and adjudication of tenders.

The early measurement of noise emission for stationary plant and the drafting of specifications to cover such emissions will be discussed by a special study group.

The division has been given the task of drawing up specifications for the use of public address systems in parks and stadia.

#### Publicity

Two further audio-visual lectures suitable for presentation on 35 mm slide projectors became available during the year. The title of these lectures are:

- (a) The Effect of Noise on Man and
- (b) Zoning for Noise.

Conversion of the existing audio-visual lectures to 16 mm film was considered but found to be too costly. Conversion to a video-tape format may however offer possibilities in the future for presentation to schools.

Presentation of audio-visual lectures has taken place on request to interested groups. Consideration has been given to arranging further presentation in the Selborne Hall and Council-owned recreation centres.

A satisfactory level of press publicity has been maintained throughout the year.

Liaison with Council departments

Evaluation of licence applications constitutes the major work load of the division. It provides a means of striking at potential noise problems.

Investigation into noise emissions from creches and consideration of likely adverse effects in establishing private landing strips in industrial areas have proved useful to the City Engineer's Town Planning Branch.

The trial period for city councillors and members of the Noise Abatement Committee to act as noise wardens has been extended for a further period of 3 months.

Complaints

The major source of complaints arises from animal noises as noted in previous years. Successful solution of complaints has decreased from 75,5% in 1972 to 60% in the current year, and emphasises the need for the introduction of adequate legislation.

Study Tour

The Noise Control Officer proceeded on a study tour to Western Germany, Switzerland, France and the United Kingdom during the current year, attended a course on noise and vibration at the University of Southampton and an international conference on noise control engineering in Denmark. During this tour he presented various talks and lectures to selected groups on noise control procedures adopted in Johannesburg.

SECTION XIV
HOUSING

Housing for Whites

Housing for the White population of Johannesburg is controlled and administered by the Housing Branch of the Department.

A total of 3 643 letting units provided by 31 December 1973 included 456 newly built units as well as 165 which replaced previous slum dwellings in the first phase of an urban renewal scheme. Flats, houses and cottages for the aged, built in a garden setting, provide a secluded area safe from traffic hazards. With the exception of 374 units for the aged and the continuation of the urban renewal scheme, no further letting schemes are being planned at present.

Over a period of 20 years 783 dwelling houses have been sold in South Hills to families with low incomes, but this scheme has been discontinued. More efforts are being concentrated on land selling schemes.

The income limit for applicants for economic and sub-economic housing was raised by the National Housing Commission in July. Nevertheless a number of units remain unoccupied. A rent rationalisation scheme is under consideration by the Department of Community Development.

The previous income limit for aged persons applying for accommodation has been abolished, but preference is given to those with low incomes.

A girls' residential hostel, providing full board and lodging for 51 working girls with low incomes, is controlled and administered by the Housing Branch.

Housing for Coloureds and Asians

The control and administration of housing for Coloureds and Asians is the function of the Coloured and Asian Affairs Department.

As at 31 December 1973 the Council had made a total of 7 027 (6 323) housing units available to Coloureds, but the waiting list still reflected 3 534 (3 226) applications for families needing accommodation.

Resettlement of families from slum areas and unsatisfactory living conditions, removal to proclaimed areas as a result of the implementation of the Group Areas Act No 41 of 1950, the employment of more Coloured workers in industry and commerce, the high birth rate, and the already existing backlog have all aggravated the housing problem of the Coloureds.

Negotiations with the Department of Community Development have resulted in the completion of 265 housing units, comprising economic flats and houses in the Eldorado Park/Nancefield area, and 518 economic and sub-economic flats and houses in Westbury Ext No 2 during the year. Seventy houses were constructed for home-ownership purposes.

To alleviate the critical housing shortage, approximately 1 500 to 2 000 units per year will be required for the next 10 years. As land is now available this target may be reached during 1974.

The redevelopment of Western Township is progressing favourably. A total of 747 houses had been demolished by the end of 1973.

During the year a number of families were evicted from premises which constituted a public health hazard. To accommodate these families 36 prefabricated buildings were erected by the Council.

The Department of Community Development has assumed complete responsibility for the housing of Asians. The Council's obligation is limited to the provision of essential services, recreation facilities and the development of parks.

Housing for Blacks

During 1973 the control and administration of housing for Blacks was taken over by the West Rand Bantu Affairs Administration Board.

At the end of the year the total number of houses in Soweto and Eastern Bantu Township was 68 901 (67 701). Of this number, 861 had been made available during the year. However, the shortage of housing continues, with 5 420 (4 428) applications for accommodation on the waiting list at the end of the year.

(HOUSING STATISTICS FOR WHITES ARE CONTAINED IN APPENDICES Y AND Z)

SECTION XV
OTHER SERVICES

Disinfecting Service

The disinfecting service is provided for the Department's own services, nursing homes and the public from the new Disinfecting Station completed in 1972.

Automatic steam autoclaving and ethylene oxide sterilising are used for purposes of sterilising and disinfecting.

The activities of the Central Sterile Supply Depot expanded during the year with the result that Soweto ante-natal clinics and midwives were eventually supplied with all delivery and nursing packs required.

Pharmacy Service

Three pharmacists and 14 ancillary workers were kept fully occupied to supply all sections of the Department.

The activities of this division include the storage and issuing of scheduled medicaments, vaccines and material needed at family planning and venereal diseases clinics as well as the manufacturing of certain fluids, ointments and tablets and their dispensing.

Regular visits are made to clinics and the C.M.R. Hospital by the staff for the purpose, inter alia, of stock and drug register checks.

Stocks for the family planning service are replenished by the State Department of Health both from the central medical stores in Pretoria and the store of the Regional Director in Johannesburg.

With regard to the take-over of the curative and midwifery services by the Provincial authorities scheduled for April 1974, a reduction in work to the extent of 61% based on 1973 figures is expected. The tuberculosis and family health services, which will be continued to be carried out by the local authority, accounted for 39% of the work output.

A total of 189 500 (180 380) doses of oral poliomyelitis vaccine was issued during the year to clinics and medical practitioners, and 1 900 000 (6 300 000) INAH tablets were packed for the tuberculosis preventive campaign in the schools and 1 397 000 for garment workers.

There was a shortage of supplies of milk powder for 3 months of the year.

Of the total issue of skimmed milk powder in 1/2 kg packs to the family health service, 83 (364) were issued to Whites, 5 294 (6 751) to Coloureds and Asians, and 223 922 (205 564) to Blacks.

Control of Nursing Homes and Midwives

The work undertaken by the Nursing Homes and Midwives Division includes annual licence inspections of homes for the aged, nursing homes, institutions accommodating the socially inadequate and handicapped, as well as the listing and control of registered midwives employed by the Council and those practising privately or in private maternity homes. Much time is spent discussing plans, sepsis control and the kitchen arrangements with entrepreneurs and their architects. Close collaboration is maintained with members of the Promotive Health Division of the health inspectorate with regard to relevant aspects of the work. Samples for bacteriological tests are taken where indicated.

The 23 (25) licensed nursing homes, including maternity homes, have 2 510 (2 500) beds of which 222 (222) are in the 4 maternity homes. A further 100 beds are available for Blacks at the St John's Ophthalmic Hospital.

An extensive study was carried out with regard to record keeping and channels of communication in the midwifery section in non-White areas. Numerous improvements were made.

In the western Coloured areas the local Provincial hospital is gradually taking over the majority of deliveries, carrying out all post-natal nursing exceet in 2 areas.

In the southern Coloured complex 15 unauthorised persons continued to undertake deliveries. Better control in this area is urgently required.

Library Service

The specialised library is a branch of the Central Library. It has proved invaluable to personnel in the Department.

Originally the services of a full-time librarian were required but, as the library became established, it was thought that the services provided by a part-time librarian would be sufficient.

(STATISTICS FOR THIS SECTION ARE CONTAINED IN APPENDICES AA AND BB)

In conclusion, I wish to express my sincere thanks to the Chairmen and members of the Management and Health and Amenities Committees for sympathetic consideration of problems submitted to them, to His Worship the Mayor and Councillors, to the Town Clerk, all heads of other municipal departments, the Secretary for Health, the Regional Director of the State Department of Health, the Director of Hospital Services and his staff, and the personnel of the South African Institute for Medical Research, for courtesy and sympathetic consideration extended to the Department at all times.

Grateful thanks is also expressed to representatives of the Press and the South African Broadcasting Corporation for their interest in public health matters and their co-operation in drawing the attention of the members of the community to health topics of primary importance to the Council and to them.

My special thanks are extended to all members of the Department for their continued loyalty and conscientious performance of duties in the interest of the Council and the community.

ALEXANDER H SMITH
MB, ChB, DPH, DTM & H, FRSH,
FIPH (LIFE)

MEDICAL OFFICER OF HEALTH

HON PROFESSOR, URBAN HEALTH ADMINISTRATION, UNIVERSITY OF THE WITWATERSRAND.

The Mc No revenue of the Presence of the parties of the work. Sandar for tentance of the work, Sandar for tentance of the work, Sandar for tentance of the work.

the 93 (25) Presume norsing Loads including maternity homes, have 2 310 to 300) beds at enter 300 (222) are in the 4 maternity homes. A further (HTIME, H. PHUMASSARDIE for Blacks at the St. Johnson, NEAS, ARBERT 18901, CAT 188

An extensive study was carried out with regard to record keeping

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(STATISTICS FOR THIS SECTION ARE CONTAINED IN APPENDICES AS AND BE)

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Inspection by Health Inspectors	Ueal
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Control of Midwives	BB

Attendances at Veneraul Discount Clinics

Per 100 000 Population ......

a ..... .. .. .. .. see another and another an

Attendances at Inberculosis Citaics .. ..

Dentel Bervices for Blacks

HEALTH AND AMENITIES COMMITTEE : 1973

Councillors M Sklaar (Chairman)

Dr A D Bensusan (Deputy Chairman and member

of the Committee to 28 February 1973)

Brig J T Durrant (Deputy Chairman from

1 March 1973)

Dr S Browde (Mrs)

A P J de Klerk, J P

O H Fenn (from 1 March 1973)

R D Janit

E J Kretzmer

C A Long

I Myers

D J Neppe

Dr J S Otto

J A Powell (passed away 6 October 1973)

MEDICAL OFFICER OF HEALTH:

A H Smith

MB, ChB, DPH, DTM & H, FRSH,

FIPH (LIFE)

DEPUTY MEDICAL OFFICER

OF HEALTH:

B R Richard MB, BCh, DPH

(from 1 August 1973)

ASSISTANT MEDICAL OFFICERS OF HEALTH:

T H Stewart

MB, BCh, DPH

S Johnson

MB, ChB, DPH

G B Miller

MB, BCh, DTM & H, DPH

(from 1 November 1973)

Total Hara	
HD. BCA, DTK A H. DPH	

#### STAFF ESTABLISHMENT AT 31 DECEMBER 1973

Medical Officer of Health	1
Deputy Medical Officer of Health	1
Assistant Medical Officers of Health	3
Chief Medical Officers	5
Medical Superintendent (Infectious Diseases Hospitals)	1
Senior Medical Officers	7
Medical Officer/Senior Medical Officer	1
Medical Officers (White and non-White)	52
Senior Dental Officer	1
Dental Officers (White and non-White)	6
Chief Scientific Officer	1
Assistant Chief Scientific Officer	1
Scientific Officers	20
Laboratory Assistants	15
Noise Control Officer	1
Assistant Noise Control Officer	1
Inspectors (Noise Control)	3
Chief Pharmacist	1
Pharmacists	2
Chief Health Inspector	1
Assistant Chief Health Inspectors	2
Divisional Health Inspectors	6
Senior Health Inspectors	14
Health Inspectors	73
Learner Health Inspectors	21
Inspectors (Pest Control)	3
Overseers (Pest Control)	26
Senior Inspector (Air Pollution Control)	1
Inspectors (Air Pollution Control)	10
Inspectors (Water Pollution Control)	6
Chief Public Health Nursing Officer	1
Senior Public Health Nursing Officers	6
Public Health Nurses	77

#### APPENDIX B

Learner Public Health Nurses	12
Orthopaedic After-Care Sister	1
Nursing Sisters (Tuberculosis)	5
Nursing Sisters (Immunisation)	9
Nursing Sisters (Medical Examination Centre)	2
Clinic Attendants	8
Senior Radiographer	1
Radiographer	1
Technical Assistants (Radiography)	5
Technician (Laboratory)	1
Technical Assistant (Laboratory)	1
Technician (Health Education)	1
Sampler (Water and Milk)	2
Chief Inspectress of Children's Institutions	1
Inspectresses of Children's Institutions	4
Housing Manager	1
Assistant Housing Manager	1
Chief Housing Supervisor	1
Assistant Chief Housing Supervisor	1
Research and Community Development Officer	1
Supervisors (Maintenance)	2
Senior Housing Supervisors	5
Housing Allocation Officers	2
Housing Assistants	9
Chemical Engineering Students	3
Principal/Chief Housing Assistant	1
Caretakers (Housing Schemes)	23
Caretakers (Flats)	2
Matron (Girls' Hostel)	1
Assistant Matron (Girls' Hostel)	1
Senior Canvasser (Tuberculosis Control)	1
Canvassers (Tuberculosis Control)	7
Superintendent (Transport and Disinfecting)	1
Supervisor (Transport and Disinfecting)	1
Disinfectors	4

Staff Chargehand (Garage)	30001
Mechanics	5
Driver	oba(1
Supervisors (Rest Rooms and Public Conveniences)	1 2
Attendants (Rest Rooms and Public Conveniences)	55
Chief Administrative Officer	1
Administrative Officers	2
Principal Administrative Assistants	4
Senior Administrative Assistants	3
Administrative Assistants	11
Senior Recorders	2
Recorders	3
Records Officer	1
Records Assistants/Senior Records Assistants	3
Woman Assistants (Clerical)	31
Secretaries and Typists	18
Telephonists	2
	637
	-
Supervising Health Inspectors (Black)	2
Health Inspectors (Black)	20
Health Inspectors (Coloured)	4
Health Inspectors (Asian)	2
Public Health Nurses (Black)	38
Learner Public Health Nurses (Black)	6
Public Health Nurses (Asian)	2
Public Health Nurses (Coloured)	10
Matron (Black)	1
Night Superintendent (Black)	1
Senior Sisters (Black)	5
Senior Midwives (Black)	
Senior Midwives (Black)	2
Sisters (Coloured/Asian)	2
Sisters (Coloured/Asian)	2

#### APPENDIX B

Dentist's Assistants (Black)	. 9
Orderlies (Clinic, Hospital, Medical and X-ray)(Blac	k) 14
Orderlies (Clinic) (Female) (Black)	. 2
Clinic Assistants (Black)	. 61
Clinic Assistants (Coloured)	. 5
Radiographers (Black)	. 2
Radiographer/Technical Assistants (Black)	. 2
Darkroom Assistants (Black)	. 3
Driver/Darkroom Assistant (Coloured)	. Tolmes
Assistant Inspectress of Children's Institutions .	· 1
Clerks and Recorders (Black)	. 73
Clerks (Female) (Black)	. 3
Printing Machine Operator (Black)	abroses 1
Clerks (Coloured)	. 4
Clerk (Female) (Asian)	. 1
Clerks (Female) (Coloured)	. 4
Driver/Recorders (Black)	. 6
Drivers (Tuberculosis) (Black)	. 2
Driver (Mobile X-ray Unit) (Black)	. 1
Typist/Clerks (Black)	. 2
Drivers (Black)	. 48
Supervisors (Black)	. 12
Boiler Demonstrators (Black)	. 6
Cooks (Black)	. 2
Public Convenience and Rest Room Attendants (Black)	134
Messengers, Nightwatchmen, Labourers, etc. (Black)	341
Labourers (Coloured)	. 8
Labourer (Asian)	. 1
	1 791
	- 171

Suberintendent (Transport and Disinfecting) (Mardi aress)

Diktorocibre ... (Asiak) nothis

#### FINANCIAL DETAILS

#### Health Services

	GROSS EXPENDITURE	INCOME	DEFICIT
	R	R	R
1972/73	4 950 635	2 472 003	2 478 632
1971/72	4 880 940	2 498 519	2 382 421

#### Housing for Whites

	GROSS EXPENDITURE	INCOME	DEFICIT
	R	R	R
1972/73	1 989 867	1 413 164	576 703
1971/72	1 710 432	1 211 434	498 998

Refunds and Subsidies received from Central and Provincial Governments, included under "Income"

	CENTRAL	PROVINCIAL	TOTAL
	R	R	R
1972/73	1 165 311	1 144 584	2 309 895
1971/72	1 476 908	854 884	2 331 792

PRINCIPAL VITAL STATISTICS

	main									LS	TAT	BE	JATO	ini
ACES	1972	1 109 240	34 186	30,73	12 002	35,39	12 226	20,11	and	X-10	970	Blac	(Me	15
ALL RACES	1973	569 909 545 140 1 148 709	34 239	29,81	184	ant	11 687	71101	1 514	M343	44,22	33	0.99	
BLACKS	1972	545 140	20 404	37,43	10 811	53,14	6 586	12,00	1 240	88 8	60,77	16	0.78	
BLA	1973	606 695	20 840	36,57	(8)	ack	6 322	11107	1 131		54,27	27	1,33	
ASIANS	1972	43 000	1 529	35,56	78	5,49				700				
ASI	1973	84 000 44 000 43 000	1 418	32,23	NC)	()	6 30	0,,0	747	(PEN	33,15	'		
COLOUREDS	1972	- interest - market	2 611	31,08	800	26,85	1 002	66177	64 0	710			27/1	7
COLO	1973	89 000	2 790	31,35	k)		989		170		60,93	4	1,58	
TES	1972	437 100	9 642	22,06	401	4,16	4 349	7117	010	(8	Lack	100	Lako	7
WHITES	1973	445 800 437 100 89 000	9 191	20,62	502	5,46	4 099	1111	166	CEN	18,07	CI	0,22	
09 8	2 2 2	Population	births,	Birth rate	births	Illegitimate birth rate	Deaths, no of	Infantile	deaths, on no of	Infantile	rate	deaths	mortality rate +	2 2 2

Maternal mortality rate calculated per 1 000 notified births in 1972; per 1 000 confinements in 1973.

+ + + +

# SUMMARY OF DETAILED LIST OF DISEASES AND INJURIES AND CAUSES OF DEATH

	22 EQ S	PRESENT	4 . 9
CAUSE OF DEATH	DEATHS	RATE	% OF TOTAL
MR. PALTERIA ONE PROPERTY AND ALLERA			TOTAL
A Infective and Parasitic Diseases			
Whites	81	0,18	1,98
Coloureds	142	1,60	14,36
Asians	17	0,39	6,14
Blacks	343	0,60	5,43
All Races	583	0,51	4,99
an ex- company of the contract of		APP TO	A146
B Neoplasms	600	1 50	16 60
Whites	683	1,53	16,67
Coloureds	84	0,94	8,49
Asians	22	0,50	7,94
Blacks	343	0,60	5,43
All Races	1 132	0,99	9,69
C Endocrine, Nutritional and	i borus	1030 B	2,0
Metabolic Diseases	- now	1267	1 5,0
Whites	43	0,10	1,05
Coloureds	29	0,33	2,93
Asians	10	0,23	3,61
Blacks	180	0,32	2,85
All Races	262	0,23	2,24
at a Conductivity	202	ray.	
D Diseases of Blood and	Eparus	1025-1	
Blood-forming Organs	4.0	0.00	0.05
Whites	10	0,02	0,25
Coloureds	2	0,02	0,20
Asians	1	0,02	0,36
Blacks	o anold	0,002	0,02
All Races	14	0,01	0,12
E Mental Disorders	проти	2007.9	9 19.3
Whites	5	0,01	0,12
Coloureds	2	0,02	0,20
Asians	10000	110-0	-
Blacks	3	0,005	0,05
A11 Races	10	0,008	0,09
F Diseases of the Nervous System	all allon	NA V	De l
and Sense Organs	Tu house	103	
Whites	41	0,09	1,00
Coloureds	14	0,16	1,42
Asians	5	0,11	1,81
Blacks	125	0,22	1,98
All Races	185	0,16	1,58

CAUSE OF DEATH	DEATHS	RATE	% OF TOTAL
G Diseases of the Circulatory			100
System			00
Whites	1 880	4,22	45,86
Coloureds	264	2,97	26,69
Asians	111	2,52	40,07
Blacks	1 098	1,93	17,37
All Races	3 353	2,92	28,69
H Diseases of the Respiratory	8225		1 00
System	baden 5		
Whites	494	1,11	12,05
Coloureds	125	1,40	12,64
Asians	42	0,95	15,16
Blacks	570	1,00	9,02
All Races	1 231	1,07	10,53
T Discuss of the Discusting Section	Bacca		18
I Diseases of the Digestive System	171	0,38	4,17
Coloureds	35	0,39	3,54
	9	0,20	3,29
Asians Blacks	433	0,76	6,85
All Races	648	0,56	5,54
All Races	040	0,50	2,2
J Diseases of the Genito-urinary	- Cana	Bla	12
System			10
Whites	47	0,11	1,15
Coloureds	7	0,08	0,71
Asians	14	0,09	1,44
Blacks	79	0,14	1,25
All Races	137	0,12	1,17
K Complications of Pregnancy,	oka di	old .	13
Childbirth and the Puerperium	1 2 2 A A		13
Whites	2	0,004	0,05
Coloureds	4	0,04	0,40
Asians	The state of	-	-
Blacks	27	0,05	0,43
All Races	33	0,03	0,28
	Bang	LEA O	13
L Diseases of the Skin and	-		13
Subcutaneous Tissue	100	272070	- da
Whites	eliopad -	0,002	0,02
Coloureds	1	0,01	0,10
Asians	Sabayue	100	2 2
Blacks	1	0,002	0,02
All Races	3	0,003	0,03
	2 19 19 16 16	日本七	125
		The Part of the Pa	

19v358 n2

NYLD REALTH CELINICS OF THE STATE OF THE STA	D TA	DANCES	ATTEN.
CAUSE OF DEATH	DEATHS	RATE	% OF TOTAL
M Diseases of the Musculoskeletal			
System and Connective Tissue			
Whites	19001	0,002	0,02
Coloureds	-	-	-
Asians	1-14	4 700	ELEW I
Blacks	3	0,005	0,05
All Races	4	0,003	0,03
	2 40	B mm	ABIE
N Congenital Anomalies			
Whites	25	0,06	0,61
Coloureds	3	0,03	0,30
Asians	3	0,07	1,08
Blacks	27	0,05	0,43
All Races	58	0,05	0,50
O Certain Causes of Perinatal			
Morbidity and Mortality	11 010	sebulo	-
Whites	83	0,19	2,02
Coloureds	50	0,56	5,06
Asians	24	0,55	8,66
Blacks	420	0,74	6,64
All Races	577	0,50	4,94
P Symptoms and Ill-defined			
Conditions		0.04	0.01
Whites	92	0,21	2,24
Coloureds	68	0,76	6,88
Asians	3	0,07	1,08
GROUPS Blacks	1 520	2,67	24,04
All Races	1 683	1,47	14,40
1973 1972	GROUPS	CATION	POPU
Q Accidents, Poisonings and	100	S. Bill	
Violence (External Cause)	110	0 00	10,73
Whites	440	0,99	16,08
Coloureds	159	1,88	9,39
Asians	26	0,59	18,17
Blacks	1 149	2,02	15, 18
All Races	1 774	1,54	13,10
The second secon	- Anna	- STATE OF	Mark I

ATTENDANCES AT CHILD HEALTH CLINICS
(MAINLY O - 2 YEARS OF AGE)

POPULATION GROUPS	1973	1972
Whites + Coloureds Asians	90 567 38 412 5 662	101 253 37 491 5 866
Blacks - in Black areas in city	104 963 ) 9 629 ) 114 592	118 157 ) 12 640 ) 130 797
All Groups	249 233	275 407

<sup>+</sup> Includes 640 individuals seen at clinics in the southern areas in age groups other than 0 - 2 years.

+ + + + +

MEDICAL EXAMINATIONS AT CHILD HEALTH CLINICS

POPULATION GROUPS	1973	1972
Whites Coloureds	10 095 9 629	10 469
Asians	2 192	1 815
Blacks - in Black areas in city	12 364 ) 453 ) 12 817	12 017
All Groups	34 733	31 376

## MEDICAL EXAMINATION OF CHILDREN IN PRE-SCHOOL INSTITUTIONS

POPULATION GROUPS	1973	1972
Whites	1 452	1 548
Coloureds	200	225
Blacks	3 498	2 408
All Groups	5 150	4 181

MEMLTH T SUBSTOLAR CENTRES + CLIRICS

HOME VISITS AND BIRTHS (LIVE AND STILL)
INVESTIGATED BY PUBLIC HEALTH NURSES

POPULATION	HOME V	/ISITS	BIRTHS INVESTIGATED				
GROUPS	1973	1972	1973	1972			
Whites	40 756	37 476	8 662	9 801			
Coloureds	16 797	12 084	3 233	3 220			
Asians	1 944	2 064	974	914			
Blacks - in Black areas in city	68 877 3 398 72 275	84 671 4 826 89 497	15 166 1 420 16 586	17 193 2 149 19 342			
All Groups	131 772	141 121	29 455	33 277			

MEDICAL EXAMINATION OF CHITCHEN TAKEN CAIRS IN SECRETAL IN PRE-SCHOOL INSTITUTIONS (SDA TO CRASY S - O YANIAS

CHILD HEALTH CLINICS - VENUES AND SESSIONS

DODUL ATTON	1	VENUES	136 1578qu	TOTAL NO		
POPULATION GROUPS	HEALTH CENTRES	SUBSIDIARY CLINICS	MOBILE CLINICS	OF WEEKLY SESSIONS		
Whites	groups other	34	3	49		
Coloureds	2118	THE 315 J	штята <sup>2</sup> дил	HOME 61 VISITE		
Asians	1 232	RUM BT.LASH	BY PUBLIC	CHIADITE TVAL		
Blacks	7	CHILD HIGALT	6 CLIMICS	41		
All Groups	11	ATIE1413MOR	11 10	109		

<sup>+</sup> More than 1 clinic session may be held at the same venue.

+ + + + +

109540

68 877

2,817.0

11 017

ALI Groups

7						10							1 177	(0		gy.	19		0.0	
ő	1972		350	070	47	662	11	360	843	552	822	325	454	9				9	381	
CKS			13	7		27		14	C)	33	20	16		2	70	129			134	
BLACKS	1973		372	049	nil	030	8	689	956	058	784	893	230	0	784	517	8		723	
0	10		12	9		25		11	c)	22	63	23		7	63	110			134	
NS.	1972		1 120	962	nil	2 169	nil	917	330	25	3 266	24	nil	2 800	CI	7 484	029 20		11 318	
ASIANS	1973	VAX	1 134	108	nil	1 189	nil	883	nil	1 209	1 335	1 269	nil	956	33	3 593	PAY 113		4 060 1	
REDS	1972		3 289	85	nil	4 833	31	2 218	626	52	997 5	55	7	262	94	15 547	New York		23 351	
COLOUREDS	1973		3 309	916	63	3 853	28	23	07	43	3 861	65	ni1	2000	86	10 985	T 692		21 703	-
ES	1972		6 155		1	13 043	89	17		11 845	9	169	92	8.62	849 9		1 853		44 570	000000
WHITES	1973	9	CI	1 299	3	16 460	51	110		8 705		313	51	200		24 362	430	-	30 183	302
F			•										•	10 1	T		bu		:	000
	NO OF COMPLETED COURSES	Diphtheria, Whooping	Cough and Tetanus	Diphtheria and Tetanus .	Diphtheria only	Boosters	Tetanus	Measles	Rubella	Poliomyelitis (oral) .	+ Smallpox Vaccinations .	++ B.C.G. of Newborn	Other	NO OF PROCEDURES	+ Smallnov Vaccinations	dos	++ No of Injections (including	B.C.G. of newborn and	rabies)	

+ Number of vaccinations performed is tabled in both sections, i.e. completed courses and number of procedures.

Number of vaccinations of travellers and Black workseekers not included.

++ B.C.G. (newborn) also shown in Appendix P : B.C.G. Inoculations.

+ + + +

1972

489

725

755 225 017

226

17

952 165

100

351

495

(0,4%)

753

ALL GROUPS 996 13 679 3 12 270 56 141 1 326 110 414 266 563 (0,6%) 705 1973 20 43 10 10 00 5 475 242 101 091 683 144 950 89 4 1 821 (0,4%) 1972 25 35 5011 BLACKS 14 383 806 584 889 413 357 429 079 128 800 105 (1,0%) 1973 31 39 1007 c) 291 786 843 78 456 64 76 85 nil 55 960 13 1972 ASIANS -CI (0,2%) 262 29 23 79 96 512 921 894 98 721 1973 CI -(0,3%) 1972 061 473 272 008 224 173 135 149 204 195 125 COLOUREDS 166 7 584 4 959 1 200 Н CLINICS 1 841 857 862 184 147 1 743 (0,5%) 175 174 1973 8 4 (0,5%) PREVENTION 26 405 408 1972 651 729 10 WHITES 7 (0,3%) 61 905 1973 260 155 079 722 404 CANCER CI for medical investigations on other contraceptives (other than for cervical No of persons referred receiving injections No of cervical smears AND FAMILY PLANNING using intra-uterine devices .. .. CANCER PREVENTION receiving tablets No of intra-uterine No of individuals PLANNING Total Visits First Visits re-inserted suspicious attending extruded + positive inserted devices removed smears) taken FAMILY

taken smears on not + Percentages calculated on reports received and

IMMUNISATION FOR INTERNATIONAL TRAVEL (JANUARY TO SEPTEMBER 1973)

	PROCEDURES	JANUARY TO SEPTEMBER +
1	Smallpox	54 120
	Yellow Fever	10 177
	Typhoid	486
	Cholera	30 427
	Cholera/Typhoid	3 827
	Other	72
48	TOTAL	99 109
1 90	n mi ne i seni nei	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON N

<sup>+</sup> From September 1973 immunisation for purposes of travel reverted to the State Department of Health.

r	-	-	OIL	-			-		-	_	_		-	-	-	-	-	-	-	-				500	H			7
	GRAND	TWE	1972	nil	51	nil	8	86	ni	ni	ni	10	52	35	5	29	ni	19	75	ni	nil	03	1	38	nil	208	619	
ED	GRA	101	1973		36	1	7	81	4	1	nil	13	28	36	1	77	nil	15	61	nil	nil	2	03	22	nil	360	429	
CONFIRMED		AL	1972	nil	nil	nil	63	nil	nil	nil	nil	1	52	nil	nil	6	nil	nil		nil	nil	nil	1	7	nil	nil	72	
	+	TOTAL	1973	nil	1	1	7					1	28	-		(1)						-	2	10		63	51	
AND	CASES	MD	-						111	91	An		3	N. Si	oï	19					Я	65		R	i	SA	3	-
PTED		p	a				7					1	12			63								10	-		29	-
ACCEPTED	IMPORTED	-	X			7							-														1	
	I	-	,	) and	8	91		No.	u	SA.										31	ini	li li	1	981	1,		1	
OTO	100	7	E		1	1							12					1					1			01	17	
TUBERCULOSIS	808	AL	1972	nil	51	nil	9	86	nil	nil	nil	6	nil	35	5	20	nil	19	75	nil	nil	2	nil	31	nil	208	547	
THAN T	MOIN TO THE	TOTAL	1973		35	nil	3	81	4	1		12		36	1	20	1961	15	61			01	100	12	-	358	623	1
	ASES	- an	MB		1	0	95															1	h	10	(10)	Ch	1	
OTHER	LOCAL CASES	-	p		8		3	1				12		35	101	63		8	1	orl	qy	c1	A	6	10	9.1	172	
	LOC		A		3													1	-					9	025	6	14	
DISEASES	7	-	2		12		e e			1				1				3				70		1		30	84	
DIS		:	*		11			80	7					H	-			3	59					CJ		228	388	
SUMMARY OF NOTIFIABLE	BANKLY PLANKING		The same of the sa	Anthrax	Cerebrospinal meningitis	Cholera	Diphtheria	Encephalitis	Erysipelas	Insecticide poisoning	Lead poisoning	Leprosv	Malaria	Ophthalmia neonatorum	Pemphigus neonatorum	Poliomyelitis	Puerperal fever	Rheumatic fever	Scarlet fever	Smallpox	Tetanus	Trachoma	Trypanosomosis	Typhoid fever	Typhus (murine)	Viral hepatitis	TOTAL	

+ "Imported" cases have local addresses, but are thought to have contacted the disease outside W = Whites C = Coloureds A = Asians B = Blacks MB = Mine Blacks municipal boundaries.

ATTENDANCES AT VENEREAL DISEASES CLINICS

	-									
BAT	TOTAL	All Visits	1 199	509	7 770	5 861	2 045	15 676	17 384	17 384
	OTHER	Re- Visit	68	1	375	nil	77	452	521	1 945
	OTH	Re- 1st Visit Visit	141	1	570	612	100	1 282	1 424	1
1972	SYPHILIS	Re- Visit	243	151	1425	1798	637 1 104		532 18 717 3 851 2093 4 774 4 721 1 424	6 495
	-	Re- 1st Visit Visit	107	160	2 122	1 748	637	4 507	722 4	6
	GONORRHOEA		365	51	1 605	nil	72	1 677	2 093	5 944
1	GONOF	1st Visit	275	145	7 707 1 673	7 410 1 703	55	3 431	3 851	9
	TOTAL		1 287	395	7 7 7 7	7 410	1 918	17 035 3 431 1 677 4 507 4 327	18 717	18 717
1	отнея	Re- All Visit Visits	136	6	296	nil	91	387	532	290
- 0	OTH	1st Visit	282	41	384	914	137	5 063 1 435	5 284 1 758	61
1973	SYPHILIS	Ke- Visit	170	51	1 679	2460	924	5 063	5 284	768
A		1st Visit	77	86	2 659	2 023	627	5 309	5 484	10
0	GONORRHOEA	1st Re- 1st Visit Visit Visit	360	29	1022	nil	70	3 749 1 092 5 309	4 178 1481 5 484	5 659
6	GONOF	1st Visit	262	167	1 667	2 013	69	3 749	4 178	5
N. A.	POPULATION	GROUPS	Whites	Coloureds	Clinics	BRES +	Non-European Hospital Clinic	Total	Total All Groups	GRAND TOTAL

Black Registration Examination Section

+ + + +

NOTIFICATIONS OF CASES OF TUBERCULOSIS

	100							
2	1972	IM- PORTED	18	-	1	22	4	81
ALL FORMS	15	LOCAL	86	193	27	2 689	29	3 024
ALL	1973	IM- PORTED	3	1 2		73	5	82
Seat for	19	LOCAL	92	230	31	2 935	55	3 343
	1972	IM- PORTED LOCAL	î	T	11	1	1	2
OTHER FORMS	19	LOCAL	5	63	62	39	1	84
OTHER	1973	IM- PORTED	35,300	1.50	-	3	L	47
200	19	LOCAL	4	23	1	21	A ANTE	27
	1972	IM- PORTED	1 00		76	47.2	7	62
PULMONARY TUBERCULOSIS	19	LOCAL	81	191	25	2 650	29	2 976
PULM	1973	LOCAL PORTED	3	1055 8	200	02	5	78
0 2	19	LOCAL	88	228	31	2 914	55	3 316
HELD SYL	POPULATION GROUP	March 1 at 1 a	Whites	Coloureds	Asians	Black (non-mining)	Black (mining)	Total All Groups

+ + + +

## ANNUAL INCIDENCE OF TUBERCULOSIS AND DEATHS PER 100 000 POPULATION

	The Vision		nol	I	NCID	ENCE	blvos	n	DE	ATHS	
		100	NUM	BE	R	on F	RATE	NUM	BER	RA	TE
-	S seastons wealthy	1	973	1	972	1973	1972	1973	1972	1973	1972
A	PULMONARY	188	9		T I	+ +					
	Whites		91		82	20	18	NE		TV B	HOH
8	Coloureds		228		191	256	227				
ur	Asians	2	31		25	70	58	4	- 60	-	
	Blacks (mine)		60		36	729	468	1	6	12	78
3	Blacks (other)	2	984	2	724	531	888	128	198	22	36
7	All Races	3	394	3	058	295	275	1		49749	
В	NON-PULMONARY	35	150		188	52	2	1973	abjan	up lo3	100
	Whites	-	4		5	18	1	-		Slack	
	Coloureds	4	3		2		2	-			
	Asians	2	-		3	100	6	4	aquor	the state	-0
M.	Blacks (mine)		-			1 -		-	6	-	78
S	Blacks (other)		24		40	4	13		89	15	16
N.	All Races	150	31		50	3	4	83601	TAIL	INO	BCG
c	ALL FORMS		10		2	Region				0	
	Whites		95		87	1973	20		HOLI	PALJUSES	M
	Coloureds	HW:	231		193	язито	229	MSM	20	GROUS	
	Asians		31		28		65	100			
0	Blacks (mine)		60		36	729	468	A 2 1	1	SU3E	13
0	Blacks (other)	3	008	2	764	535	901	216	229	38	74
Soon	All Races	1.00	102		108	18 12	280	23 10	PARE	Bush	GE I

## TUBERCULOSIS CLINICS

1 for Whites providing 2 sessions weekly

4 for Coloureds providing 4 sessions weekly

1 for Asians providing 1 session weekly

10 for Blacks providing 16 sessions weekly

16 for all population groups providing 23 sessions weekly

+ + + + +

### HOME VISITS BY TUBERCULOSIS STAFF

POPULATION	PUBLIC NUR	HEALTH SES		ILIARY TERS
GROUPS	1973	1972	1973	1972
Whites	432	311	387	750
Coloureds	362	121	5 992	6 881
Asians	88	44	1 515	1 855
Blacks	5 261	5 062	44 524	33 548
All Groups	6 143	5 538	52 418	43 034

+ + + + +

#### BCG INOCULATIONS

POPULATION		os	19	73	18	13			19	972	311	10
GROUPS	NEW	BORN	от	HER	то	TAL	NEW	BORN	от	HER	то	TAL
Whites		313	2	169	2	482		169	200	973	1	142
Coloureds	2	655	2	882	5	537	2	553	8	747	11	300
Asians	1	269	1	126	2	395	1	240	2	277	3	517
Blacks	23	893	29	995	53	888	16	325	56	143	72	468
All Groups	28	130	36	172	64	302	20	287	68	140	88	427

TUBERCULOSIS CASES RECEIVING DOMICILIARY AND OUT-PATIENT TREATMENT

POPULATION	AT AT	AT	PUI	PUT ON	TAKE	TAKEN OFF	AT	AT
GROUPS	1.1.73	1.1.72	1973	1972	1973	1972	31.12.73	31.
Whites	273	269	102	105	100	101	275	273
Coloureds	919	962	270	231	309	279	880	919
Asians	150	184	35	36	19	99	166	150
Blacks	8 745	990 6	4 150	3 594	4 258	3 916	8 637	8 745
All Groups	10 087	10 481 4 557 3 966 4 686 4 362	4 557	3 966	989 7	4 362	9 958	10 087

HOSPITALISATION OF TUBERCULOSIS CASES

POPULATION	AT	AT	ADMI	ADMITTED	DISCE	DISCHARGED	AT	AT
GROUPS	1.1.73	1.1.72	1973	1972	1973	1972	31.12.73	31.12.73 31.12.72
Whites	9	13	64	33	84	42	7	9
Others	991	292	2 284	2 149	284 2 149 2 073 2 181	2 181	1 202	991
All Groups	266	780	2 333	2 182	2 333 2 182 2 121 2 223	2 223	1 209	266

ATTENDANCES AT TUBERCULOSIS CLINICS

			_	_	-	-							
GRAND	TOTAL		076	964	618	924	826 (		8 635	265 9	375	395	1 002
15	4		8	24	CJ	154	190		8	26	3	182	221
BALL B150	RE-	pre	769 5	320	363	8 70 9	425	SEE SEE	260 9	274	2 648	658	198 677
CAL	>		L	22	CI	136	166			24		165	198
TOTAL	1ST VISIT		546	176	255	928	553	1e	538	323	727	737	325
	VI VI		3	c <sub>3</sub>		18	24		C3	CI		16	22
S	RE-	DIRCH	359	491	123	721	769	888	690	24/0	51	999	5 727
ECT	>		-	33		3	10		1	-		2	2
SUSPECTS	1ST VISIT		1 596	1 639	156	2 0 6 2	8 488		1 147	1 919	477	14 577	8 120
	RE-		505	510	227	026	268		805	483	29	829	27 184
ACTS	LV.		03	7		13	18	200	63	3		20	27
CONTACTS	1ST VISIT		260	432	89	200	260	20.	279	311	233	620	11 902
ggui	1 VI		1			11	13	8	1			10	11
10	RE-		1 830	19 319	2 013	119 301	142 463	0	255	19 744	530	141 269	165 798
ES	RI VI		-	19	C)	119	142		6.1	19	63	141	165
CASES	1ST VISIT	PATTON	06	105	31	2 579	2 805		112	93	17	2 081	2 303
POPULATION	GROUPS	1973	Whites	Coloureds	Asians	Blacks	All Groups	1972	Whites	Coloureds	Asians	Blacks	All Groups

+++++

## CURATIVE AND MIDWIFERY SERVICES IN AREAS FOR BLACKS (INCLUDING NOORDGESIG CLINIC FOR COLOUREDS)

SERVICE	1973	1972
Clinic Attendances:	STORES LEGISTORS	eligible for
Medical and Surgical	440 432	461 806
Ante-natal	54 077	57 621
Post-natal	669	802
TOTAL	495 178	520 229
Home Visits:	r work	Found unfile fo
Medical and Surgical	39 107	50 405
Ante-natal	16 356	16 650
Post-natal	92 153	101 572
TOTAL	147 616	168 627
Confinements attended:	RO - EMOITAMINA	24 402 CH JJA
Deliveries	4 047	4 806
BBA's	2 188	2 442
TOTAL	6 235	7 248
TSUNDRY TOGGSTURNANSSEARCH + A	+ + + +	MINAKS SLASIUSH

### DENTAL SERVICE FOR BLACKS

SERVICE	1973	1972
Fillings	4 121	2 593
Scalings	71	63
Extractions	66 955	65 671
Number of patients	56 593	53 478

## MEDICAL EXAMINATION OF WHITES

	1973
Prospective municipal employees found eligible for -	Bearing Action
Pension Fund membership	1 702
Special membership of Pension Fund	1 257
Work only	28
	2 3
Apprentices	52
Found unfit for work	48
TOTAL EXAMINED	3 087
Cases boarded	20
Other examinations	37
ALL EXAMINATIONS - GRAND TOTAL	3 144

MEDICAL EXAMINATION OF BLACK WORKSEEKERS

	1973	1972		
Workseekers examined	158 386	156 835		
Medically unfit for employment -	all suffered to the			
Temporarily	295	383		
Permanently	739	743		
Foodhandlers examined	660	391		
Number of smallpox vaccinations	131 128	122 486		
Cases of gonorrhoea found	2 013	1 703		
Cases of syphilis found	2 023	1 748		

## INSPECTION BY HEALTH INSPECTORS

	1973	1972	
Various premises	230 150	352 077	
Nuisances investigated	68 686	102 941	
Infectious diseases notified	623	619	
Food poisoning investigations	7	4	
Complaints investigated	2 581	2 741	

offett (meteto tetut) + + 1 943,069413 260(629

FOODSTUFFS FOR WHOLESALE AND RETAIL SUPPLIERS CONDEMNED

+++++

	1973	1972
	kg	kg
Canned foodstuffs	47 451	24 402
Dressed poultry	1 697	3 070
Fish	2 826	2 985
Processed meat	375	45
Frozen foods	12 075	110
Sundry foodstuffs	1 447	2 380
	65 871	32 992

INSPECTION OF POULTRY AND GAME AT MUNICIPAL MARKET

	INSPECTED	CONDEMNED
Furred game	1 141	9
Feathered game	596	7
Dressed poultry	nil	nil

## MEAT INSPECTION

	1973	1972		
Animals slaughtered -	and assis	Various pro		
Cattle Sheep, etc Pigs Calves Equines Imported meat (metric tons)	391 000 945 330 215 558 39 436 8 598 21 900,372	389 657 1 106 087 222 358 54 615 7 104 22 920,101		
Imported offal (metric tons) Meat condemned (metric tons) Imported whale meat (metric tons)	1 943,069 2 382,508 118,731	3 140,629 2 389,713 nil		

#### DAIRY HERD INSPECTIONS

NO NO	1973	1972
47 451 24 402	allusabos	Canny g. 1
Number of herds	1 173	1 323
Number of cattle	111 203	118 155
Bulk samples tested for mastitis	2 357	2 241
Positive mastitis tests	331 (14%)	318 (14,2%)
Bulk samples tested for brucellosis	2 355	2 237
Positive brucella ring tests	1 519 (64,5%)	1 572 (70,3%)
Positive brucella agglutination tests	343 (14,5%)	438 (19,6%)
Bulk samples tested for tuberculosis	2 355	2 237
Positive tuberculosis tests	(0,08%)	5 (0,2%)
Samples tested for antibiotics	2 324	2 268
Samples showing inhibitory substances	57 (2,4%)	59 (2,6%)
Samples containing penicillin	46 (1,97%)	48 (2,1%)

MAIN CAUSES FOR CONDEMNATION OF MEAT

		_
TENG YE TENGTETE	1973	1972
CATTLE	%	%
Cysticercosis	0,21	0,17
Pleuritis and/or peritonitis	0,17	0,18
Bruising	0,09	0,10
Tuberculosis	0,07	0,14
Pneumonia	0,07	0,06
Gangrene	0,07	0,09
Emaciation	0,04	
Pyaemia		0,05
Fever	0,04	0,05
	0,03	0,03
Pericarditis	0,03	nil
Other diseases	0,11	nil
SHEEP		traju
Pneumonia	0,04	0,04
Emaciation	0,03	0,02
Caseous Lymphadenitis	0,01	0,01
Icterus	0,01	0,02
Bruising	0,01	nil
Fever	0,01	0,01
Other diseases	0,02	nil
boaren ayab to or	- 1011101	Mosqueto
PIGS	and to may	Invested Invest
Cysticercosis	0,39	0,72
Arthritis	0,32	0,30
Gangrene	0,18	0,20
Pneumonia	0,16	nil
Nephritis	0,15	0,20
Scrotal sepsis	0,09	0,10
Fever	0,09	0,10
Pyaemia	0,08	0,10
Bruising	0,08	nil
Tuberculosis	0,06	nil
Other diseases	0,23	0,10
CALVES		ant 3
Pneumonia	0,50	0,59
Icterus	0,43	0,48
Emaciation	0,40	1,01
Omphalophlebitis	0,33	0,59
Nephritis	0,30	nil
Salmonellosis	0,30	nil
Other diseases	0,70	0,31
The state of the s	0,70	0,51
EQUINES		S. O. C.
Melanomata	0,12	0,28
Emaciation	0,06	0,04
Extensive bruising	0,03	nil
Other diseases	0,08	0,04

## PEST CONTROL

Premises inspected for rodent	BY DISTRICT HEALTH INSPECTORS	BY PEST CONTROL OVERSEERS
infestation -	3 783	THULL THE
(a) Routine/complaints	gm	175 180
(b) Demolition	191 Ostablu	378
(c) Block surveys	955 330 bia	4 889
Anti-rodent measures carried out	215 558 PM	2004958
without notice	954	1580815
Rodent proofing notices served	720	40Pyffem)
Re-inspections	1 905	Fayer
Interviews	385	334494P1
No of premises treated including	14 1 10 10 10	3003039
traps		37 911
No of premises gassed -	102,300 3	21 711
(a) Municipal	118.731 [10	15 407
(b) Private for demolition	and the same of	25 201
purposes (supervision only)	Benevitte de la	118
Municipal premises treated -		110
(a) With T.I.F.A. machine	89	62
(b) By other means	The second second	87
Mosquito control - no of days worked	SUBADEAD	371
Loose swarms of bees eradicated on	.) 1973 -	1978019
municipal premises		162
Specimens sent to S.A.I.M.R	1 1 1 1 2 2 3	Arghri
(a) Rodents	1 4/4/59	1 854
(b) Fleas (batches)	171 203 in	37
(c) Mosquitoes (batches)	0 00311	87
(d) Snails (batches)	की स्ट्रिक्ट ।	20
Materials used -	331	navojus
(a) Anti-coagulant poison,	(19%) /	i contages)
cyanogas, poison wheat,	2 250 00	1218,2
zinc phosphide	alcois	kg
(b) Diesoline (incinerator),	an money to	13 436,3
insecticide, larvaecide	(69,590)	l
Carbon monoxide machine -	35.3424	ombeding I
(a) Petrol used	C11 59 F	1 089 1
(b) Oil used	Mort	95,41

### RODENTS CAUGHT OR RETRIEVED

9 409
16
1 892
1 866
26
26
nil

++++

71

GRAND 174 251 120 244 3 645 153 168 154 792 431 39 80 143 131 156 Total 139 65 -2 B/R 3 B/R 3 B/R Conven Conven Duplex 56 157 39 26 81 96 78 903 71 65 76 12 13 30 42 099 3,4 38 12 6 9 4.5 A further 269 economic letting units have still to be concluded in Claremont Stage III. Detached Total Bach 1 B/R 108 12 189 38 27 27 783 156 189 42 851 19 174 120 28 15 9 6 14 244 12 4 B/R 1 6 9 20 3 B/R ROW 42 150 11 15 8 12 23 24 Detached B/R 150 151 1 076 181 Detached 2 B/R Row 8 00 and Semi 2 B/R 314 245 63 Reserves 567, 577, 875, 840 Stage I (original) Stage I (ext of contract) Lot 139, Klipriviersberg ECONOMIC ESTATES Original (still let) Lots 119/120/121, Klipriviersberg Stands 281 - 288 MAX GOODMAN PARK 1956 Extensions South Lot 131 South Lot 132 Sold houses SOUTH HILLS BELLAVISTA TOTAL Stage III CLAREMONT VREDEPARK MONTCLARE Stage II Stage I Proper Phase I North JEPPE

783 156 378 98 71

31 DECEMBER 1973 : ECONOMIC ESTATES

AT

HOUSING UNITS FOR WHITES

173

54 54 55

SUB-ECONOMIC ESTATES .. 31 DECEMBER 1973 AT FOR WHITES HOUSING UNITS

GRAND	TOTAL	230	187	120	8*	75	16	12	108	775
PAGES AGED	Total	36	28	T.	84	54	16	12	14	208
COTTAGES FOR AGED	Db1	16	12	\$2	18	12	16	12	14	100
FOR	Sing	20	16	Serie.	30	42				108
-	Total Sing Dbl Total	not	84	24		9	1	1	09	132
FLATS		trea	12	9	11(3)		22	70	30	84
	2 B/R 3 B/R Conven Conven	- N	36	18	only	102			30	84
	Total	194	111	96	1	1	1	'	34	435
200	4 B/R Detached	DAG LBOR SQ. 5.	4	8	a word	DA .			-	12
SES	3 B/R Row	a (b)	atch	- 83		2			34	34
HOUSES	3 B/R Detached	102	65	45					221	206
	2 B/R Detached and Semi	92	84	43	de				340	183
	SUB-ECONOMIC ESTATES	Jan Hofmeyr	Maurice Freeman	Pioneer	South Hills Reserves	Vredepark	Bellavista	Jeppe	Claremont III +	TOTAL

+ A further 108 sub-economic letting units have still to be concluded in Claremont Stage III.

\* \* \* \* \*

DISINFECTING SERVICE : DISINFECTIONS AND DISINFESTATIONS

	1973	1972
Persons	1 739	2 019
Premises	2	4
Vehicles	2 344	2 853
Articles and bundles of bedding and clothing	5 743	6 121
Dressing drums and packs	62 180	11 551

+ + + + +

### DISPENSARY SERVICE

	MANUFACTURED		DISPENSED			
YEAR	LIQUIDS	OINTMENTS	LIQUIDS	OINTMENTS	TABLETS	
Barren .	l	kg	units	units	individual	
1973	33 124	2 345	563 787	48 568	26 038 500	
1972	31 852	2 884	590 949	65 485	27 554 000	

+ + + + +

### ISSUES OF MILK POWDER

	SKIMMED MI	LK POWDER	FULL CREAM MILK POWDER		
SERVICES	1973	1972	1973	1972	
	1/2 kg	1/2 kg	1/2 kg	1/2 kg	
	packs	packs	packs	packs	
Tuberculosis All child health	68 712	91 698	nil	591	
	229 299+	212 679+	216 793	193 379	

<sup>+</sup> These figures include 52 836 (57 868) 1/2 kg packs issued to the African Children's Feeding Scheme and 2 528 (nil) to Witsco for Coloureds.

## CONTROL OF NURSING HOMES AND INSTITUTIONS

E 1863 B E 1873 B 1883	1973	1972
Licensed nursing homes	23	25
Visits to nursing homes	256	253
Miscellaneous visits	36	60
Charitable institutions and homes for the aged	53	46
Visits to homes for the aged	148	159
Homes for the socially inadequate, handicapped and unmarried mothers	22	20
Bacteriological tests (agar plates, solutions and swabs submitted to S.A.I.M.R.)	248	344

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# CONTROL OF MIDWIVES

002 860 ar 8a 8a	263 787	2 345	IST EE	1973	1972
Midwives listed -			å1 852	72	1 0
Whites				94	107
Coloureds				16	17
Asians					10
Blacks					196
Inspections - of bags				158	83
of registers				552	588
Maternal deaths inv	estigated			13	83+
Puerperal sepsis ca	ses notif	ied 7 80		nil	nil
Pemphigus neonatoru	m cases n	otified		od billio	5
Ophthalmia neonator				52	35
- of gonoco	ccal orig	in		14	8

<sup>+</sup> Includes deaths following abortions



