LEGISLATIVE ASSEMBLY OF THE NORTHWEST TERRITORIES 5TH COUNCIL, 27TH SESSION SESSIONAL PAPER NO. 4-27 TABLED ON JUNE 2, 1964

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NORTHWEST TERRITORIES

SESSIONAL PAPER NO. IV, 1964 (First Session)

REPORT ON HEALTH CONDITIONS IN THE NORTHWEST TERRITORIES, 1963

SUMMARY

1. The estimated population for 1963 was 24,066 -- 5,714 Indians (23.7%); 8,565 Eskimos (35.6%); and 9,787 (40.7%) persons of White Status. It is increasing at the rate of 32% per year.

2. The crude birth rate of 45 per 1,000 population was 1.8 times the National rate, and 65% of the births took place in Hospitals or Nursing Stations. The crude fertility rates (births per 1,000 women 15-49 yrs) for the Indian and Eskimo populations were 191 and 262 respectively as compared to the National rate of 111. 27% of the births in the native population were born to mothers who had already had at least 6 children, while only 12% of White Status mothers fell into this category.

3. The crude death rate of 10 per 1,000 population was the lowest ever recorded. There was an increase in the neonatal death rate, which was mainly due to an increased number of deaths in Thite Status babies.

The infant death rate of 103 was the lowest recorded in the past 25 years.

The average age at death for the three ethnic groups was :-

	Indians	Eskimos	Others
All decedents	33 yrs	15 yrs	31 yrs
Decedents over 1 yr. of age.	47 yrs	36 yrs	53 yrs

4. The chief cause of death in the first 28 days of life was Prematurity. From the first month onwards, the chief causes of death were:-

- 1. Injuries and Violence,
- 2. Pneumonia,
- 3. Senility and Unknown Causes, and

4. Cardiovascular Diseases.

Alcohol was associated with 25% of the deaths due to violence.

5. Respiratory Diseases and Diseases of the Digestive System and Skin were the major causes of sickness both in Inpatients and Outpatients.

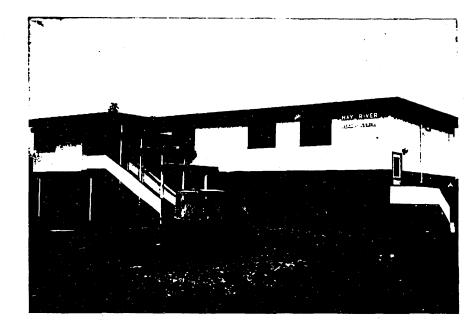
6. An epidemic of Influenza occurred in the Western Arctic area in April-May, and affected a total of 2,654 persons.

An epidemic of Tuberculosis occurred at Eskimo Point in the Central Arctic, and 82 persons had to be evacuated to Hospital. The disease was of a very virulent type, but gradually responded to treatment, and the patients are making satisfactory progress.

7. The Health Centres at Hay River and Yellowknife were completed during the year and are now in full operation.



YELLOWKNIFE HEALTH CENTRE



HAY RIVER HEALTH CENTRE

Population:

The estimated population of the Northwest Territories in 1963 was:-

Indians	Eskimos	Others	Total
5,714	8,565	9,787	24,066

These figures were obtained by the natural increase (births minus deaths) for the years 1961 and 1962 to the 1961 Census figures of the Dominion Bureau of Statistics, and these are the figures which have been used in calculating all rates.

This is the first year in which we have tried to calculate age-specific death rates for the ethnic groups in the Northwest Territories, and to enable us to do so the Department of Northern Affairs and National Resources, and the Indian Affairs Branch of the Department of Citizenship and Irmigration kindly agreed to provide us with population figures broken down into age and sex groupings. The total populations in the figures supplied were not the same as those calculated from the 1961 Census, as they were based on Band membership and on Eskimo Registration Numbers and did not show the true area of residence. However, the figures gave us the percentage distribution of the population in the various age groups and these were applied to the populations calculated from the 1961 Census.

TABLE 1

NORTH FST TER. LITORIES

Indians and Eskimos

[ians		Es	kimos		All Canada		
· ·	Population %		%	Population	%	\$	¥,	%	
Under 1	215	3.7		337	3.9				
1-4	852	14.9	18.6	1,395	16.3	20.2	12.4	12.4	
5-9	761	13.3		1,274	14.9		11.4		
10 - 14	652	11.4	24.7	1,033	12,1	27,0	10.2	21.6	
15 - 19	515	9.0		924	10.8		7.8		
20 - 24	462	8.0		718	8.4		6.4		
25 - 29	357	6.3		638	7.4	!	6.6		
30 - 34	344	6.0		509	5.9		6.9		
35 - 39	284	4.9	34.2	385	4.5	37.0	6.9	34.6	
70 - 77	222	3.9		392	4.5	1	6,1		
45 - 49	184	3.2		289	3.4		5.5		
50 - 54	177	3.1		235	2.7		4.7		
55 - 59	178	3.1	13.3	150	1.7	12.3	3.9	20.2	
60 - 64	154	2.7		114	1.3		3.2		
65 +	309	5.4	8.1	172	2.0	3.3	8.0	11.2	
Not Stated	48								
TOTAL	5,714	100	100	8,565	100	100	100	100	

Age Distribution of Population, 1963

Table 1 shows the percentage of native persons in each age group as compared to the All Canada figures. It will be noted that the Indian and Eskimo populations are young populations, 43% and 47% respectively being under 15 years of age whereas the Canadian figures show only 31% in this age group. The percentages in the young adult groups equate with those of the rest of Canada, but from 35 years of age onwards, the percentages of the native population in the older age groups falls

progressively below the National figures.

The ratio of males to females in both the Eskino and Indian populations is the same, namely 1,040 males to 1,000 females.

The vital statistics in this report have been calculated separately for the three ethnic groups resident in the Northwest Territories, i.e. Registered Indians, Eskimos, and Others (White Status). In comparing rates one should remember that some of the numbers in certain categories are so small that it is misleading to compare rates, and that the "White Status" group includes enfranchised Indians and Metis.

Vital Statistics:

Births

The overall birth rate is 15 per 1,000 population which is 1.8 times the Canadian rate. The birth rate is down slightly from 1962 for all ethnic groups, and it is interesting to note that the Indian and White Status rates are similar, while the Eskimos have a rate which is more than twice the Canadian rate.

The ratio of male to female births varies considerably in the three groups:-

Indians	-	1,163 males	to	1,000	females
Eskimos	-	1,016 males	to	1,000	females
Others	-	1,069 males	to	1,000	females
All Canada (1961)	-	1,057 males	to	1,000	females

The preponderance of male Indian births is noteworthy, as a similar observation was noted in the Yukon Territory in 1962 where the ratio was 1,300 to 1;000. Twentyseven percent of Indian births are recorded as illegitimate while the comparable figure for Eskimos and Others is 8%.

Premature births appear to be more common in the non-native population, as 8.7% of births among white status persons were premature, while the corresponding rates for Indians and Eskimos were 4.7% and 6.5% respectively. This may be due to more accurate recording of prematurity among the non-native group, but, as is mentioned later in this report, it is to be expected that the prematurity rate would be higher among persons of white status.

There has been a steady increase in the percentage of births taking place in hospitals and Nursing Stations over the past ten years:-

	1953	1955	1957	1959	1961	1963
Percentage of Births occurring in Hospitals and Nursing Stations	38.9	45.5	38.6	45.7	57.1	65

The percentages vary considerably for the three ethnic groups, those for 1963 being as follows:-

Indians	-	70%
Eskimos	-	39\$
Others	-	94%

The Stillbirth rate for the Territories is 13.7 which is similar to the All Canada rate.

Table 2 lists live births by the age group of the mother, and as expected, we find that a greater percentage of Indian and Eskimo births occur in mothers in the early and late reproductive years than is the case in women of White Status.

TABLE 2

NORTH EST TERRITORIES

Live Births by Age Group of Mother

<u>1963</u>

	IN	DIAN		ESI	(IMO	-	OTHER			TOTAL		
Age of Mother	Number	%	\$	Number	×	×	Number	K	%	Number	×	%
12-14 years	-			-			-			-		
15-16 years	5	2.3		13	2.6		4	1.0		22	2.0	
17-19 years	<u>1</u>]†	6.6	8.9	63	12.8	15.4	30	7.7	8.7	107	9.8	11,3
20-24 years	59	28		121	24.6		120	31		300	28	
25-29 years	45	21		116	23.6		116	30		277	25	
30-39 years	7 6	36	85	142	29	77	112	29	90	330	30	83
40-45 years	10	4.7		26	5.3		5	1.2		Ļ1	3.8	
46-49 years	3	1.4	6.1	9	1.8	7.1	1	0.2	1.4	13	1.2	5.0
50+ years				-			_					
TOTAL BIRTHS	212	100	100	490	100	100	388	3.00	100	1090	100	100

Table 3 lists the birth order of children born in the Territories, and shows that 27% of the births in the native population were born to mothers who already had 6 children, while only 12% of the white status mothers fell into this category. 3.3% of Indian mothers and 1.8% of Eskimo mothers had previously had 12 or more children, while the comparable figures for white status mothers was 0.5%.

TABLE 3 NORTH EST TERRITORIES

Birth Order (Live Births)

1963

ſ			INDIAN			ESKIMO			OTHER	
		Number	×	×	Number	%	\$	Number	%	×
	lst Child	31	14.6		69	14.C		97	25	
	2nd Child	30	14.1		87	17.7		79	20.3	
	3rd Child	33	15.5	<u>14</u>	52	10.6	ы	72	18.5	63
	4th Child	24	п.3		51	10.4		57	14.6	
	5th Child	17	8.0		69	14.0		25	6.4	
	6th Child	21	9.9	29	38	7.7	32	17	4.3	25
	7th Child	22	10.4		30	6,1		13	3.3	
	8th Child	7	3.3		31	6.3		9	2.3	
	9th Child	5	2.3	16	23	4.6	17	6	1.5	7.2
	10th Child	5	2.3		15	3.0		5	1.3	
	llth Child	5	2.3		10	2.0		4	1.0	
	12th Child	5	2.3	7.0	6	1.2	6.3	2	0.5	2.8
	13th Child		• •	2.2		- 0	7.0		24	
)	Cr more	7	3.3	3.3	9	1.8	1.8	2	0.5	0.5
L	TOTALS	212	200	100	490	200	100	388	100	100

Deaths

Tables 5 and 6 give the pertinent figures on mortality. The overall crude death rate was 10 per 1,000 population, which is the lowest ever recorded and compares fairly favourably with the Mational rate of 7.7. Table 4 shows the percentage of total Deaths which occur in the major age groupings of the population, and the high percentage of deaths occurring in the Under 1 year and in the 1-39 year groupings as compared to the National percentages is immediately evident.

TABLE 4

NORTH EST TERRITORIES

Percentage Deaths Occurring in Major Age Groupings, 1963

	Indians	Eskimos	Others	All Canada (1961)
Under 1 year	31%	54%	L1%	10,
1 - 39 years	57%	28%	11 ¹ %	8%
40 - 59 years	16%	7%	16%	16%
60 years +	28%	11%	29%	64%

This high mortality in infants, children, and young adults becaues even more apparent when we compare infant and age-specific death rates.

Perinatal Deaths - (0-6 days)

These are deaths occurring during the first week of life and we see that out of 52 neonatal deaths (0-28 days) l_3 (83%) occurred in the first 6 days of life, and if we go into further detail we find that 27 of those occurred within 2 l_1 hours of birth. Our perinatal death rate is l_1 times that of the National figure, and prematurity is given as the main cause of those deaths. It should be noted that the perinatal death rate among white status infants is slightly higher than among the native groups and there appears to be a correlation between reported prematurity and perinatal rates, ^{e.g.}

	Indians	Eskimo	White Status
% Prematurity	4.7	6.5	8.7
Perinatal Death Rate	<u>}</u> 1	54	56

Neonatal Deaths - (0-28 days)

There has been a marked rise in this rate in respect to white status infants over the last three years (5--19--19). 90% of these deaths occurred during the perinatal period and as previously mentioned are nearly all associated with prematurity. One expects more premature births among women of the higher economic groups as, having better medical attention, they are likely to bring to near-term, pregnancies which, in the less fortunate groups, would have terminated earlier in abortions or miscarriages. However, it is difficult to explain the progressive increase in this rate over the past few years -- it may be that the improved medical services are converting what would have been abortions into premature deliveries, but this is doubtful as, if this were the case, the native rates should also show a comparable increase. It behoves us to carefully observe this rate over the next few years.

The Neonatal death rates for Indians compares very favourably with the National rate, while the Eskimo and White Status rates are three times the National figure.

Infant Deaths - (0-365 days)

The overall infant death rate of 103 per 1,000 births is the lowest recorded in the past 25 years. The Indian and Eskimo figures are decreasing gradually, but here again the White Status figure of 62 shows an increase — however as with the Neonatal rate, it is solely due to the increase in Perinatal deaths.



NORTH EST TERRITORIES

Vital Statistics, 1963(g)

			DIANS	.)			KIMOS 8,565	;)		WHITE STATUS (Pop. 9,787)			NORTHWEST TURNITORIES ALL GRCUPS (Pop. 24,066)				ALL CANADA
	19 Number	63	1962	1961 Rate	19 Number	63	1962 Rate	1961	19 Number		1962 Rate	1961 Rate	19 Number		1962 Rate	1961 Rate	RATE 1961
Livebirths(a)	212	37	41	42	490	57.2	61	64	388	39.7	39	42	1,090	45	47	50	26.1
Illegitimate Births(b)	58	27	26	34	39	7.9	8	7	31	8	10	8	128	11.7	12	13	4.5
Stillbirths(c)	5	23	4	23	5	10.2	18	14	- 5	13	16	13	15	13.7	15	16	13
Livebirths Born in Hospitals and Mursing Stations(8)	148	70			191	39			366	94			705	65		57	96.9
Maternal Deaths(d)					1	20	19.8		1	25			2	18	9.1		4.6
Perinatal Deaths(f) (O-6 days)	4	41			22	54			17	56			43	52			12.7
Neonatal Deaths(c) (O-28 days)	4	18.9	27	9	29	59	50	60	19	49	19	5	52	47	35	30	18
Infant Deaths(c) (Under 1 year)	13	61	103	81	76	155	194	185	24	62	27	21	113	103	120	108	27
TOTAL DEATHS (a)	42	7.4	10	9	142	16.6	23	22	58	5.9	6	4	242	10.0	13.	11	7.7
Deaths in Hospitals and Nursing Stations(e)	17	40.5			42	29.6			34	58.7			93	38.4		26	63
Natural Increase(a)	170	29	30	37	348	40.6	38	38	330	33.7	33	35	848	35	34	36	18

(a) Rate per 1,000 population. (b) Rate is percentage of total live births. (c) Rate per 1,000 livebirths. (d) Rate per 10,000
 (e) Rate column shows percentages of livebirths or deaths occurring in Hospitals or Nursing Stations. Livebirths.
 (f) Perinatal Death Rate is Stillbirths (28 weeks +) plus infant deaths under 1 week per 1,000 total births (live and stillbirths).
 (g) Based on certificates received up to 17 March 1964. (3 deaths in non-residents excluded)

TABLE 6

NORTH EST TERRITORIES

Age Specific Death Rates -- Indians and Eskimos 1963

		INDIANS	3			ESKDIQ	3		ALL CANADA	
Age Group	Population	Deaths	Ráte	RLE	Populati8	Deaths	ra ed	Rate	Rate	88
Under 1(d)	215	13	61		337	76	155		27.2	
1 - 4 yrs	852	4	4.7		1,395	21	15.0		1.1	
5 - 9 yrs	761	-	-		1,274	1	٥.٥		0.5	
10 - 14 yrs	652	1	1.5		1,033	2	1.9		0.4	
15 - 19 yrs	515	-	-	0.5	92և	3	3.2	1.8	0.8	0.57
20 - 24 yrs	462	1	2.2		718	3	4.2		1.1	
25 - 29 yrs	357	2	5.6		638	3	4.7		1.1	
30 - 34 yrs	344	2	5.8		509	2	3.9		1.3	
35 - 39 yrs	284	-	-		385	5	13.0		1.8	
40 - 44 yrs	222	3	13.5		392	2	5.1		2.7	
45 - 49 yrs	184	3	16.3	5.9	289	2	6.9	5.8	4.5	1.4
50 - 54 yrs	177	-	-		235	1	4.2		7.5	
55 - 59 yrs	178	1	5.6		150	5	33.3		11.7	
60 - 64 yrs	154	3	19.5	7.8	114	5	43.8	22.0	18.4	11.8
65 +	309	9	29.4		172	11	64.0		59.8	
Unspecified	118	-								
TOTALS	5,714	42	7.4		8,565	1)12	16.6		7.7	

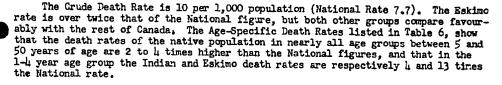
(a) Indian population based on figures provided by Indian Affairs Branch X 1.118 to bring up to estimated population.

(b) Eskimo population based on figures provided by Department of Northern Affairs and National Rescurces X 0.91 to reduce figures to estimated population.

- (c) Rates per 1,000 population in specified age groups.
- (d) Per 1,000 live births.

NOTE - The number of deaths in many age groups is so small that comparisons of rate could be misleading.

Total Deaths -



In past years we have stressed particularly the high Infant Mortality amongst our Indians and Eskimos, but these figures show that we must now pay equal or more attention to the health of the preschool child.

Average Age at Death -

The Dominion Bureau of Statistics gives the average ages of all Decedents in the Northwest Territories as follows:-

	<u>1953</u>	<u>1955</u>	1957	<u>1959</u>	<u>1961</u>
Northwest Territories	24.35	26.8	21.9	23.8	23.7
All Canada	58.3	59.2	59.4	59.7	61.4

On calculating the figures for 1963, we find that the average age at death for all residents is 22 years, and when we break this figure down for the various ethnic groups, we find that

> The average age of Indian decedents is 33.16 years Eskimo " 15.05 years Other " 31.11 years

However, if we exclude deaths in the first year of life and take the average age at death as from 1 year onwards we get the following figures:-

	Indian	Eskimo	Other
Average Age of Decedents over 1 year of age:	47.48 years	35.9 years	53 years

The graph attached to this report shows the average age of decedents over the last 30 years.

Natural Increase -

This figure remains steady at a 35% increase per year, for the Territories, which is double the National figure of 1.8 per cent. The Eskimo population shows an annual increase of 1%.

Place of Death -

Table 5 shows that 35% of all deaths occurred in Hospitals or Nursing Stations. While this is much lower than the Canadian figure of 83%, it has been rising gradually over the past 8 years:-

<u>1955</u>	<u>1957</u>	<u>1959</u>	1961	1963
20%	22%	29%	26%	38%

This is indicative of the increased Hospital and Nursing Station facilities in the Territories.

TABLE 7
NORTHAST TERSIT
Causes of Death by Ethnic Group and Selected Age Groups, 1963(a)
causes of Deary by Found and Serected Age of other 1403.

Numbers of Cases

1 i		1	INDIANS						ESKIMOS						WHITE STATUS										
	GRAND	NeO.	fants	sch	Sch	Young	Adult	; E14	1 :	lilleo.	fants	sch	Sch	Young	Adult	Bla	Г Т	Infa Neo.	ints	Presch	Sch	Young	Adult	Bld	
Causes of Death Group	TOTAL	i∥128∣	3 29-	1 yrs	1 5-14 5 yrs	15-34 yrs	4 35-64 yrs	4 65+ yrs	Total;	1-28 days	29- 3640	1-h yra	5-14 yrs	15-34 уга	35-64 yrs	65+ Угв	Total	1-28	29-	1-4	15-14 1 yrs	15-34	35-64 yrs	165+	Total ;
Diseases of Infancy (別山山山)	56	1	1	1					6	و د که ۳ سېږې	3	11	'	j i		i ; i	31	19_		i :		'			19
Injuries (BN47-50)	43	1	1 '	11'	1	5 '	5	i'	13	(i'	8	1	3_'	6	<u>_</u> 4_'	, ,	22	1	1.1	1	1	4_	2	'	8
Pneumonia (B31)	41	, i	2	1 '	1	1		3	6	ļ'	19	5		· '	4	2	30	4!	4_4_	<u>i</u> 1	'	'	·	<u> </u>	5
Senility & Unknown Causes (B45)	29		['	1	['		1	3	4	2	10	1	'	2	11	6	22	ļ!	<u> </u>	<u> </u> _'	! ··•	1	'	2	.3
Cardiovascular Diseases (B24-29)	20		['			'	3		3	ľ'	1	1		1	L	1	7	_	/	<u> </u> '	'	ļ!	6	_1	10,
Diseases of Nervous System (B22-23)	16		2			'	'	1	4		1	5	 			'	6			'		!	4	2	56.
Gastrointestinal Diseases (B33-36)	13		3	1			{ ; ;		4	ľ., ,	6	2	[]	[]	1		,	<u>ا</u>	1			!		 	·
Neoplasms (B18-19)	8	ſ ;	[]_'	(_)	1 '	1'	1	11	1	1	1'	<u> </u>	L	1	11	2	3	i!	.1	1	<u>; </u>	4!	1	[_3]	<u>· 4</u>
Other Respiratory Diseases (B30 & B32)	6			[]'				1	1			1			2	[]	3		!		 	ļ	2		• 2
Tuberculosis, All Forms (B1-2)	5	\Box					['			اا		1		2	2	1!	5_	ļ	i ^j	 	 		II		· · •
Infective & Parasitic Diseases (B3-17)	3								_			3					3		↓	<u> </u>	ļ	<u> </u>			
Complications of Pregnancy (E40)	2							!		[] h					1		1	<u></u>	ļ	ļ!		1		<u> </u>	1
ALL CAUSES including injuries	242	4	9	4	1	5	10	1 1	42	l <u> </u>		21	3	i	20	ш	142	15	5	2		6	15	11	58(b)

NOTES: (a) Preliminary fig res, based on cartificates received up to 17 March 1964. (b) Three deaths in non-residents excluded.

Causes of Death -

The major causes of death for the three ethnic groups are listed in Table 7. It shows, as expected, that in the first 28 days of life "Diseases of Infancy" cause nearly all the deaths. It should be noted that this category includes Pneumonia and Diarrhoes of the Newborn and Congenital Malformations. The major causes of death in other age groups are, in order of priority:-

- 1. Injuries and violence,
- 2. Pneumonia,
- 3. Senility and unknown causes,
- 4. Cardiovascular Diseases,
- 5. Diseases of the Nervous System.
- 6. Gastrointestinal Diseases.

Table 8 shows a breakdown of deaths due to injuries and violence, and we see that drownings, exposures, and burns account for 56% of these deaths. Eleven deaths are listed as Asphyxia, and in all these cases, overlying, smothering by bedclothes, and inspiration of vomit were listed as direct causes. These are probably incorrect diagnoses, and all these eleven deaths would have been more accurately listed as "Sudden Death in Infants (cause unknown)". There are about 2,500 such deaths in Canada every year, and in the United States it is estimated that 25% of infant deaths can be placed in this category. The usual history is that an apparently healthy well nourished baby is placed in a crib or pram, and within a few hours it dies, and autopsy findings are negative. In past years, it was suggested that many of these infants smothered against the pillow or bedclothes or that they had inspired food or vomit into their lungs. Few medical authorities accept these theories today as little evidence has been presented in support of them. Much research is taking place to try and discover the cause of this "Sudden death in the Infant" but todate we are ignorant of the true pathology in these cases.

Note should be taken of the fact that the Royal Canadian Mounted Police reported that the excessive use of alcohol was associated with 25% of the deaths due to Injuries. At first glance this may not seem important, but when one takes into account the fact that less than 50% of the population of the Territories have access to alcohol, one can easily see how this problem could continue to increase and become responsible for a greater percentage of deaths.

TABLE 8

NORTH-EST TERRITORIES

Deaths Due to Violence, 1963(b)

	Indians	Eskimos	White Status	Total Northwest Territories
Motor vehicle accidents	-	-	3	3
Fractures other than in motor vehicle accidents	2	1	1	L
Homicides (Knife wounds)	-	1	-	l
Burns	3	-	3	6
Drownings	6	3	1	10
Exposure	-	8		8
Asphyxia (overlying, inspira- tion of vomit, etc) (a)	2	9	-	11
TOTALS	13	22	8	43
% of Total Deaths	31%	15%	1) %	18%

(a) Mostly reported in infants -- probably not true cause of death.

(b) Figures based on certificates received up to 17 March, 1964.

NOTE - According to R.C.M.P. reports 10 of the deaths due to violence were associated with excessive consumption of alcohol. The second greatest cause of death was Pneumonia (11 deaths) and 34 (83%) of these deaths occurred in children under 4 years of age, and 73% of them occurred among the Eskimo population.

It is interesting to note that Gastrointestinal and Infectious and Parasitic diseases accounted for 16 deaths and <u>all</u> occurred among the native population. These diseases are intimately associated with the living conditions of the populations concerned, and will remain prevalent until housing and sanitation standards in the Territories are improved.

Tuberculosis accounted for 5 deaths all of which occurred among the Eskimo population.

Morbidity

Inpatients -

Table 9 shows the incidence of Hospitalization of Territorial residents for the year 1962 broken down into age and ethnic groupings. Interesting facts which emerge from this table are:-

(a) the very high rate of hospitalization in children under 10 years, and

(b) the high "average stay" period in the native groups, particularly in the Eskimos.

Hospitalization per unit population during 1962 was as follows:-

Eskimos	-	3.7	days
Indians	"	2.9	days
Others	-	2.1	days

A glance at the pie-charts attached to this report shows that while the number of hospital separations among the three ethnic groups equate closely to the percentage distribution of the ethnic groups in the population, the Eskimos, comprising 36% of the population were responsible for 14% of the hospital days.

	Indian	Eskimo	Other
% Distribution			
in Population	24%	36%	40%
Separations	23%	36%	h1%
Hospital Days	24%	հեղ	32%

Table 10 and the pie-charts on disease distribution in Inpatients shows that the following conditions were responsible for the major proportion of hospital days:-

Disease	1961	<u>1962</u>
Respiratory Diseases	25%	27%
Pregnancy and Childbirth	20%	17%
Diseases of Digestive System	12%	9%
Diseases of Nervous System and Sense Organs	6%	6%
Infective and Parasitic Diseases	5%	10%
Other Diseases	26%	25 %

Outpatients -

Table 11 lists the various diseases treated at Nursing Stations and Health Centres during the year 1962. Here we note that diseases of the Respiratory and Digestive Systems account for 57% of all diseases treated, while accidents and skin

TABLE 9

NORTHWEST TERRITORIES

Hospitalization by Sex, Age and Ethnic Origin, 1962 (T.H.I.S.)

					MALES				FEMALES									
	5	Beparatio	ons	Pa	tient Day	78	Average Stay			Separations			Patient Days			Average Stay		
Age Group	Indians	Eskimos	Others	Indi ans	Eskimos	Others	Indians	Eskimos	Others	Indians	Eskimos	Others	Indians	Eskimos	Others	Indians	Eskimos	Others
Newborn Under 1 1-1, yrs 5-9 yrs 10-14 yrs 15-19 yrs 20-24 yrs 25-29 yrs 30-34 yrs 35-39 yrs 30-34 yrs 35-39 yrs 50-54 yrs 55-59 yrs 65-69 yrs 65-69 yrs 75-79 yrs 80-84 yrs 85 + Age Unspecified	95 161 129 795 36 21 20 33 20 12 6 10 20 9 5 4 4	103 219 236 43 58 33 42 25 32 17 35 23 16 11 7 1 4 2	219122886445425534496342382824355	532 1,157 1,505 1,237 516 1,67 225 136 378 202 167 232 202 265 218 218 218 318 613 90	604 2,314 2,899 1,340 1,022 455 466 427 591 368 1425 186 738 438 332 188 108 7 24 21 21	1,386 1,141 1,617 537 363 311 517 540 292 581 354 481 481 481 468 361 203 381 203 131 65	5.7 9.1 11.7 7.1 12.9 10.7 6.8 11.6 6.8 11.6 9 6.9 19.3 6.6 6.2 13.2 13.2 13.2 12.1 13.1 13.1 13.2	5.8 10.8 12.8 15.5 13.8 14.2 15.5 13.8 14.2 15.2 14.0 19.3 21.0 18.5 15.4 7.0 6.0 12.0	6.3 7.00 8.7.5 9.7.9.8 10.5 11.2.5 19.5 19.5 13.0	86 138 144 551 48 75 80 52 61 22 21 18 23 15 7 13 12 16 5	139 168 184 80 76 128 146 157 120 95 76 42 17 12 23 15 3 4 2 3	176 121 1365 56 109 225 224 180 111 71 24 25 9 9 6 8 3 3 1	522 1,543 1,321 396 622 405 455 548 302 129 153 314 84 95 249 144 102 120	962 2,227 1,954 1,955 1,175 1,514 1,284 1,086 1,358 1,086 1,358 1,086 1,358 1,086 1,358 1,086 1,358 3,086 1,179 243 69 646 83 88 29 333 52 65	1,112 927 913 6533 285 674 1,234 1,338 1,120 737 548 301 354 238 218 218 122 45 100 29 68 5	8,6 11,1 9,2 8,8 12,4 8,5 6,1 6,8 5,8 6,4 5,8 7,2 8,5 13,6 14,7 20,0 13,6 10,2 24,0	7.C 13.4 10.9 12.0 16.3 12.1 8.8 8.6 14.7 9.7 31.4 14.7 28.0 5.8 29.3 9.6 8.2 26.0 21.8	6.3 7.7 6.8 5.0 6.3 5.4 6.2 6.2 6.2 7.8 14.5 16.4 13.8 7.5 12.5 9.3 7 5.0
TOTALS	762	1,066	1,285	8 ,30 4	12,956	10,980				926	1,482	1,633	8,048	17,000	10,951			
Days Declined by T.H.I.S.				201	61,5	208							88	568	81			

Average Stay includes days declined by T.H.I.S.

NORTH.EST TERRITORIES

TABLE 10 Summary of T.H.I.S. Inpatient Statistics 1961 and 1962 (Research and Statistics Division)

Serarations, Patient Days, Average Stay and Rates (excluding Newborns) (including out of Territories Hospitalization)

	, - (Separ	ations	Patier	t Days_	Averag	e Stay		Separations		
Class No.	Principal Diagnosis	1961	1962	1961	1962	1961	1962	1961 (Pop.22,998)	1962 (Pop.2և,000)	1961	1962
1 2	Infective and Parasitic Diseases Neoplasms	254 76	614 102	3176 1045	6749 1749	12.5 14.1	11 19 .2	1104 330	2613 կկ8	13809 4544	28658 7429
3	Allergic, Endocrine System, Metabolic and Nutritional Diseases	72	101	946	1399	13.2	14.1	313	420	L113	591 9
4	Diseases of the Blood and Blood Forming Organs	15	20	179	250	11.7	12.1	65	86	778	1095
5	Mental, Psychoneurctic and Personality Disorders	110	91	1021	978	9.2	11	482	388	4461	կօիկ
6	Diseases of the Nervous System and Sense Organs	342	360	4684	4324	15.6	12.1	1487 691	1492 847	2C367 13958	18026 20170
7 8	Diseases of the Circulatory System Diseases of the left iratory System	159 1294	203 1733	3210 12318	1919 16609	20.2 9.5	23.8 9.6 8.8	5648 2678	7277 2429	53792 25233	70223
9 10	Diseases of the Digestive System Diseases of the Genito-urinary System	615 251	574 292	579 7 2279	5094 3565	9.3 12.0	11.6	1091	1280	9910	15258
11	Deliveries and complications of Pregnancy, Childbirth and the Puerperium	1059	1109	6149	6287	5.8	5.7	L626	5222	26850	29602
12	Diseases of the Skin and (ellular Tissue	216	248	1999	2587	9.2	10,6	939	1027	8692	10836
13 14	Diseases of the bones and organs of movement Congenital Malformations	83 40	105 55	1396 942	1),1), 828	17.6	13.4 15.1	360 174 209	426 231 392	6070 4096 2522	5739 3585 5346
15 16 17	Certain Diseases of Sarly Infancy Senility and Ill-defined conditions Accidents, Poisonir;s and Violence	48 198 346	94 232 387	580 1379 3994	1243 1160 3609	12.3 6.9 11.3	13.6 4.9 9.1	865 1508	963 1584	6213 18597	4783 14655
18	Supplementary Classifications for Special Admission: 3.	80	32	<u>478</u>	287	5.4	9.2	348	138	2078	1270
	TOTAL - All Diagnos 35	5259	6352	51577	63051	10.0	10.0	22928	27269	2261 0 6	272995

TABLE 11 NORTHWEST TERRITORIES

Returns of Diseases Treated in Nursing Stations and Health Centres, 1962 (figures obtained from Nurse's Monthly Reports)

	Nat	ives	Non-Na	tives	Total Population		
Disease	Number	Percent	Number	Percent	Number	Percent	
Diseases of the Respiratory System	8,617	45	2,147	37.4	10,764	43.7	
Diseases of the Digestive System	2,435	12.9	645	11.2	3,080	12,5	
Accidents, Poisonings and Violence	2,151	11.4	1,129	19.7	3,280	13.3	
Diseases of the Skin and Cellular Tissue	1,753	9.3	5142	9.4	2,295	9.3	
Diseases of the Sense Organs	726	3.8	152	2,6	878	3.5	
Diseases of Bones and Organ of Movement	517	2.7	130	2.2	647	2.6	
Allergic, Endocrine, Metabolic and Nutritional Diseases	242	1.3	66	1.1	308	1,3	
Diseases of the Genito- urinary System	221	1.2	157	2.7	378	1.5	
Complications of Pregnancy	184	0.9	54	0.9	238	1.0	
Diseases of the Nervous System	151	0.8	73	1.2	224	0.9	
Diseases of the Cardio- vascular System	140	0.7	70	1.2	210	0.8	
Diseases of Early Infancy	35	0,2	4	0.06	39	0.2	
Unspecified	1,698	9.0	564	9.5	2,262	9.2	
TOTALS	18,870	100	5,733	100	24,603	100	

diseases accounted for another 22%.

Notifiable Diseases

Notifications of the common notifiable diseases during the year were as follows:-

Chicken Pox	-	69	Influenza	-	2,654
Dysentery	-	l	Neasles	-	204
Encephalitis	-	4	Meningitis	-	4
Hepatitis	-	40	Mumps	-	2
			Rubella	-	70

Influenza assumed epidemic proportions during the months of April and May in the Western Arctic, and an outbreak of 32 cases of Infectious Hepatitis occurred at Fort Simpson during the month of March. Apart from these and the outbreak of Tuberculosis at Eskimo Point, which is discussed separately, no other outbreaks of a serious nature were reported.

Tuberculosis

223 new active cases of Tuberculosis were discovered during the year, which gives an overall incidence of 0.94%. There was an increase in the incidence of this disease among Eskimos (2.1%) while there was a reduction in incidence among Indians (0.6%) and non-natives (0.14%). There would also have been a decrease among the Eskimo population were it not for the explosive outbreak which occurred at Eskimo Point, which accounted for 82 or 37% of the new cases. This outbreak was completely unexpected as this tiny hamlet had been surveyed annually for many years and few cases found. There is no doubt that the strain of the bacillus which caused this epidemic was of a most virulent type as Dr. Stuart Carey, Chief of Medical Services at Clearwater Hospital, reported that 25% of the patients continued to deteriorate during the first 3-6 months of full treatment, while in many others there was a delayed response to treatment.

This outbreak, which was the worst in Canada in recent years, is a prime example of what may happen when you get a combination of inadequate housing, overcrowding, lack of resistance, and the tubercle bacillus. We must face the fact that similar outbreaks can occur unless we increase our efforts to control Tuberculosis by:-

- 1. More frequent X-ray surveys in areas of high incidence.
- 2. Stepping up our B.C.G. immunization program.
- Improving housing and sanitation standards and reducing overcrowding.
- and 4. Improving the nutrition of the native populace.

There are other danger spots in the Territories, e.g., Coppermine, Spence Bay, Cambridge Bay, and Clyde River, -- these are all areas of high incidence and close surveillance is necessary to ensure that there is no repetition of the Eskimo Point disaster.

70% of the total population of the Territories was X-rayed during 1963, and as usual the response in the native population was much greater than among white status persons.

The B.C.G. Immunization Program was continued and 2,266 persons were vaccinated.



TABLE 12

NORTHIEST TERRITORIES

Tuberculosis Control 1961 - 1963

	ES	KIMO	3	<u> </u>	DIAN	3	NON	-NATI	TES	TOTAL	L POPUI	ATION
 	1961	1962	1963	1961	1962	1963	1961	1962	1963	1961	1962	1963
Population	7949	8282	8565	5284	5461	5714	9138	9487	9787	22371	23230	24066
% of Total Population	35.5	35.6	35.6	23.6	23.5	23.7	40.8	40.8	40.7	100	100	100
NEW ACTIVE CASES:	129	155	178	32	49	35	19	21	14	180	225	227
Incidence of New Active Cases in Population (%)	1.6	1.9	2.1	0.6	0,9	0.6	0.2	0.2	0.14	0.8	1.0	0.94
REACTIVATED CASES:	(a)	(a)	76	(a)	(a)	16	(a)	(a)	2	(a)	(a)	94
No. I-Rayed on Surveys	7037	7319	8241	3520	3531	4001	5404	11188	4577	15961	15333	16819
% Population X-Rayed on Survey	88	88	96	67	64	70	59	- 47	47	71	66	70
Number of B.C.G. Vaccinations	(a)	(a)	1159	(a)	(a)	520	(a)	(a)	587	(a)	(a)	2266

(a) Figures not readily available.

Venereal Disease

No cases of Syphilis were reported during the year. 186 cases of Gonorrheea were reported -- this represents a rate of 773 per 100,000 population which is eight times the National rate. The age distribution of cases was as follows:-

Under 1 yr	<u>1-4 yrs</u>	5-9 yrs	<u>10-14 yrs</u>	15-19 yrs	20-39 yrs	Age Not Stated	Total	
1	l	-	-	20	157	7	186	

It should be noted that it is estimated that only 10-20% of Venereal Disease occurring in Southern Canada is officially reported, whereas, in the North the figure is probably near 90% -- this explains in part the apparent great difference in incidence of this disease. However, the fact remains that the incidence is high and that it is increasing every year.

Much of our venereal disease is associated with the excessive use of alcohol, and it will be difficult to reduce the incidence unless we achieve some control over the alcohol problem. The rather lax morals of many of our residents also contribute greatly to the high incidence of this disease.

Food Processing and Catering Establishments

There are 57 food processing and catering establishments in the Territories, two of which are milk processing plants. Of the remaining 55 catering establishments, 40 could be classified as commercial concerns while the remainder are operated by Government Departments for the benefit of employees and pupils.

These establishments have been regularly inspected during the year by the Public Health Engineering Division of the Department of National Health and Welfare, and its officers have reported that h2 are being operated in a satisfactory manner, 9 are fairly satisfactory, and h have been classed as unsatisfactory. All operators have been advised on what action is necessary to bring their establishments up to standard. A major difficulty in the control of food and drink establishments in the Northwest Territories is the deficiencies in existing legislation. Recommendations have been made to the Commissioner of the Territories on this subject.

The Public Health Engineering Division has requested that its officers be relieved of the duties of routine inspections as this is not their responsibility. This work should be carried out by Public Health Inspectors, and we have two such posts in our estimates, but to date we have not been able to recruit suitable applicants.

Radiation Fallout Studies

The Radiation Protection Division of the Department of National Health and Welfare has, in cooperation with the Northern Health Service, initiated a special study on the deposition of radioactive fallout in the Northwest Territories. Preliminary reports indicate that the cumulative deposit of radioactive fallout in the soil is somewhat less in the North than in Southern Canada. However, levels of Caesium-137 in caribou and reindeer meats are substantially higher than in southern beef.

Samples of human bone and urine are also being collected for analysis of radioactive content.

New Facilities

The construction of the new hospital at Frobisher Bay continued satisfactorily and it should be ready for occupation in June, 1964.

The new Health Centres at Hay River and Yellowknife were completed and are now in full operation. The movement of population from Vale Island to the new townsite at Hay River may necessitate a relocation of the Health Centre within the next few years, and a suitable site, adjacent to the new hospital site, has been reserved.

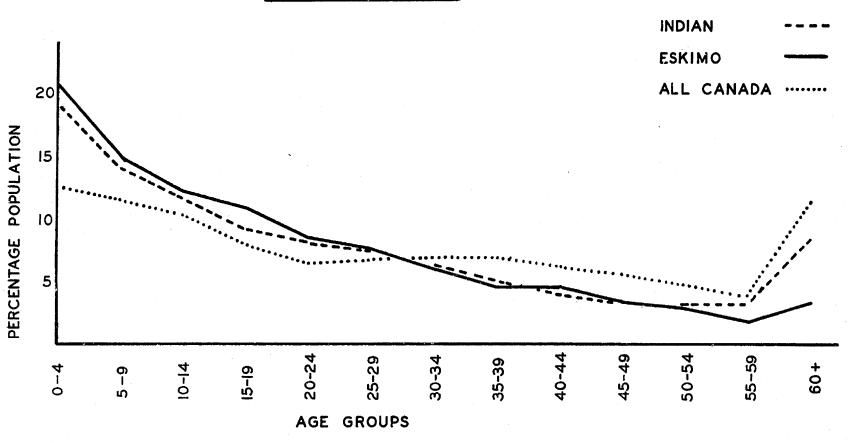
Spence Bay and Coral Harbour Nursing Stations have been in operation respectively since June and September 1963 and are providing very necessary health and treatment services for the inhabitants of these isolated settlements.

Facilities planned for 1964 include a new Nursing Station at Fort Franklin, replacement of the Nursing Station at Aklavik, renovation of the Health Centre at Fort Smith, and the erection of Health Stations at Whale Cove, Broughton Island and Port Burwell.

Northern Health Service 1 June 1964

POPULATION DISTRIBUTION. N.W.T.

INDIANS AND ESKIMOS



1963

ESKIMO POPULATION

By Health Districts and 5 Year Age Groups

NORTHWEST TERRITORIES

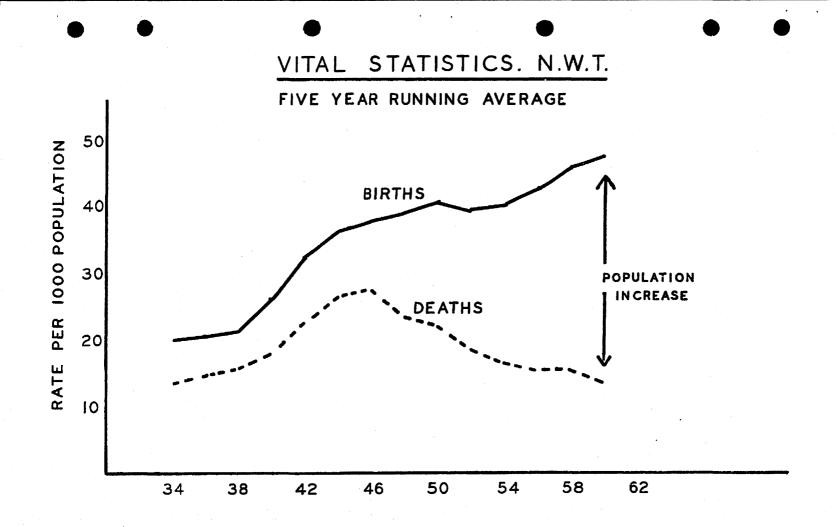
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E 4 Spence Bay	n	15	43	<u>4</u>	. 37	141	43	42	33	31	23	28	24	25	25	15	9	10	14	12	10	9	9	10	6		5		1		4 2	300		
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E 2 Baker Lake	9	.9	46	5 46	38	3 29	21	25	30	23	18	23	15	22	16	15	21	15	9	8	5	9	9	10	6	31	4	6	6	2	1 7	254	252	506
E 3 Chester- field-Coral Harbour	28	21	96	5 84	75	; 60	62	64	64	78	45	ЪЦ	38	47	33	26	26	28	23	21	21	17	16	9	14	9	5	4	1	5	49	551	. 526	1077
Sub-totals	47	40	192	172	148	3 132	112	118	126	128	85	92	71	99	69	52	73	61	42	40	52	36	34	24	29	21	14	17	<u>11 1</u>	4	7 19	1102	2 1065	2167
EASTERN ZONE		-				-		-				-						1																
E 5 Pond In Resolute	10	18	128	120	108	3 128	120	96	84	82	76	59	60		1			18	1			27	19	1	1	7	7	7	17.0	2	75	746		
E 6 Pangnirtung	17	15	64	69	73	62	64	66	142	32	35	33	31	28	31	29	19	23	18	24	13	5	15	9	2	8	<u> </u> . <u></u>	10	L <u></u>	6	57	437	1/20	000

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E 7 Frobisher Bay Lake Harbour Cape Dorset)	1	42	112	2 119	104	4 106	64	78	77	65	54	54	51	L 1 ₄ 8	յիր	50	34	33	43	26	25	13	21	16	14	15	10	3	6 ;	3	68	702	679	1381
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CRAND TOTALS NORTHWEST TERRITORIES	182	189	783	1 750	693	708	573	562	526	489	390	400	31,1	360	287	272	229	194	232	198	178	140	148	011	80	85	65	60	<u>ы</u> т 7с	552	2 55	4800	4612	9412
GRAND TOTALS ALL ESKIMOS	211	226	102	4 970	933	3 931	773	750	667	637	499	516	477	492	396	392	318	285	311	261	246	201	207	165	112	132	86	99	54 6]	1 61	4 75	6383	6193	12576
MALES & FEMALES IN AGE GROUPS N.W.T.	37]	<u>л</u>	1	1533	1	цол	ш	135	10	015	7	790	1	701	:	559	1	423		430	3	318	2	258	1	165	125	5	81];	107	91	<u>ы</u> 12	
S POPULATION IN EACH AGE GROUP N.W.T.	3.9	.9	1	16.3	Ľ	ц.9	12	2.1	10	0,8	8	8.14	7	7.4	5	5.9	Ŀ	4.5	1	4.5	3	3.4	2	2.7	1	1.7	1.3	3	0.9	,	1.1	1(00%	

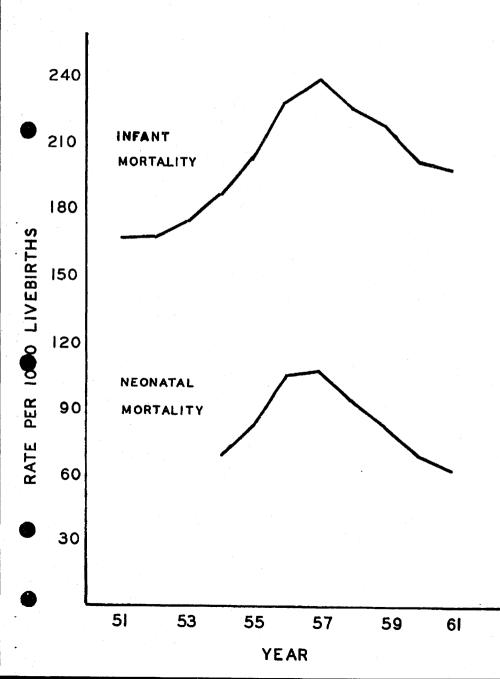
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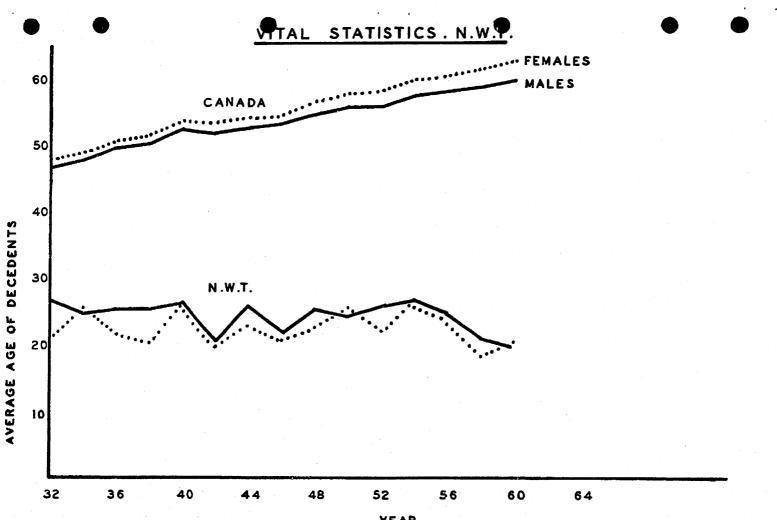


VITAL STATISTICS. N.W.T.

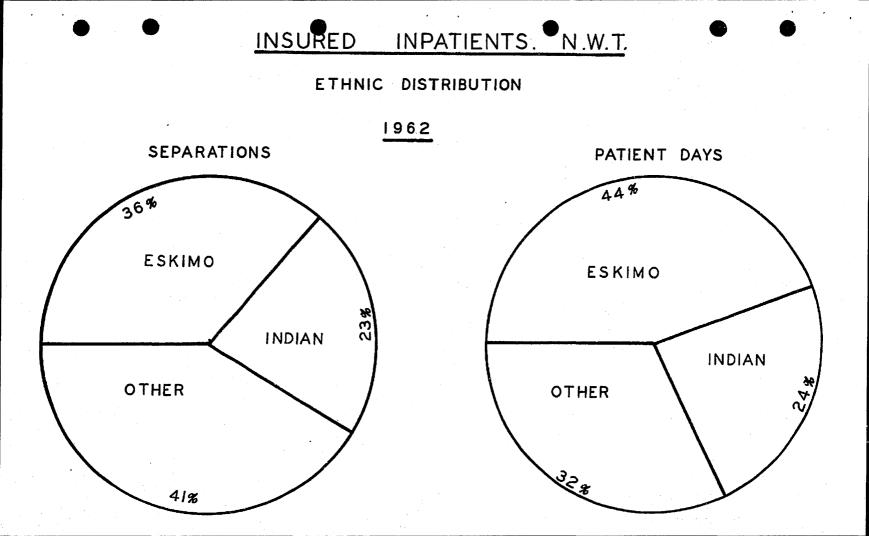
ESKIMO

THREE YEAR RUNNING AVERAGE



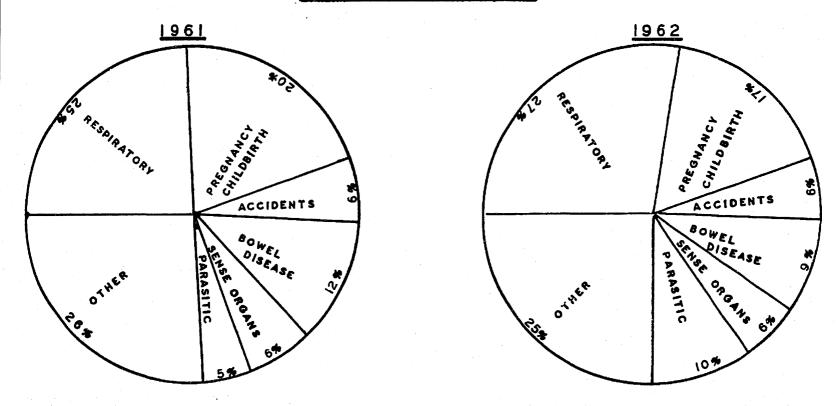


YEAR



INSURED INPATIENTS. N.W.T.

DISEASE DISTRIBUTION

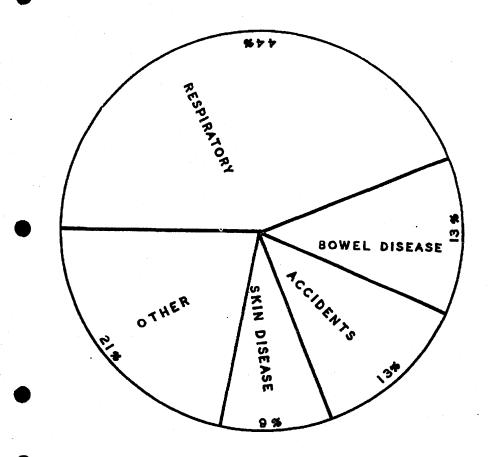


OUTPATIENTS. N.W.T.

TREATED AT NURSING STATIONS

1962

DISEASE DISTRIBUTION



MEDICAL AND HEALTH FACILITIES, NORTHWEST TERRITORIES

1964

(except where otherwise stated, all facilities are operated by the Northern Health Division of the Department of National Health and Welfare)

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<u>IACKENZIE ZONE</u> Place	Hospitels	No. of Beds	Nursing Stations	No. of Beds	Health Centres	Health Stations	Medical Clinics	Dental Clinics	Ley Dispensers (with emergency drug supplies)	Health
iklavik			x to be replaced 1964	4						×
urctic Red River									x	
Jack River		·				×	·			
Bathurst Inlet				-		·×			x	
Jambridge Bay			x	7	······································		(1 Doctor NH3) vacant x			- x
;oppermine			x	4			<u>_</u>			×
F.L.C. Sites				1					x	
?ort Franklin			New N.S. planned 1964			x (Resident Nurse)				
Fort Good Hope			x	4						
Fort Liard			x	4						
Fort McFherson			x	4	[1				
Fort Norman	-		x	4						

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Place	Hospitals	No. of Beds	Nursing Station s	No. of Beds		Hoalth Stations	Modical Clinics	Dontal Clinics	Lay Dispensers (with energency drug supplies)	Community Health Workers
Yort Providence				2 (emergency bods)	(operated by R.C. Mission for Northern Health Sorvice)					
'ort Resolution			x (I.C. lission))						
ort Simpson	x (R.C. Mission)	77					x (1 Doctor NHS)			
'ort Smith	x (R.C. Mission)	72			Renovation plannod 1964 x		x (Ophthalmologist & 2 Doctors NHS)	x (l Dentist NHS)		
ort W _r igloy	[])	11	1				x	
joa Haven	1			//		x		· · · · · · · · · · · · · · · · · · ·	x	
ay River	x (Pentecost&lr Mission)	10			x		x (1 Doctor,Pente- costal Mission)	x (1 Dentist NHS)		
olman Island					1				x	
nuvik	x	80			x (attached to Hospital)		x (3 Doctors NHS)	x (l Dentist NHS)		x
eanne Marie River				<u></u>	1	1-1-1		1	x	

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Placo	Hospitals	No. of Bods	Nursing Stations	No. of Bods	Health Centres	Health Stations	Modical Clinics	Dental Clinics	Lay Disponsers (with emergency drug supplies)	Community Health Workers
Lac La Martre				х.		x			x	
Nahanni									x	
Norman Wells	x (Imperial Oil Co.)	13					x (1 Doctor, Imperial Oil Co.)			
Pelly Bay									x	
Perry River						x			x	
Rao	x (R.C. Mission)	71					x (1 Doctor NHS)	1997		
Reindeer Station									x	
Rocher River									T	
Sach's Harbour						x			x	
Snowdrift									x	
Sponce Bay		·	x	4						x
Thom Bay									x (Paid)	
Tuktoyaktuk			x	4						x

					- 4					
Place	Hospitals	No. of Beds	Nursing Stations	No. of Beds	Health Centros	Health Stations	Medical Clinics	Dental Clinics	Lay Dispensers (with emergency drug supplies)	Health
	x Municipality Yellowknife)	44			x		x (3 Privato Practitioners)	x (l Privato Practitioner)		
TOTAL IACKENZIE ZONE	7	367	10	17	6	7	8 Clinics (14 Doctors)	4 Clinics (4 Dentists)	16	6
CENTRAL ARCTIC ZONE	<u>E</u>			·						
3akor Lake	T	1	x	4	T	Ť	1	T	7	f ·x
Chestorfield Inlet			x (F.C. Mission)	31						
Joral Harbour			x	4						
Iskimo Point			x	4						
lankin Inlet	1		x	6						x
topulso Bay			 .						x	
whale Cove						Planned 1964			x	
FOTAL SENTRAL ARCTIC ZONE	E		5	49					2	2

<u>EASTERN ARCTIC ZONE</u> Placo	Hospitals	No. of Rods	Nursing Stations	No. of Bods	Health Centres	Health Stations	Medical Clinics	Dontal Clinics	Lay Dispensers with emergency drug supplies)	Community Health Workers
Arctic Bay	-		1			x			x	NO4 NO1 8
Broughton Island	-					Plannod 1964	· · · · · · · · · · · · · · · · · · ·		x	
Cape Dorset	-		x	4						
Clyde River	1		1	1		x			x	
Fox Point			x	4						
Frobisher Bay	x	28			x (attached to Hospital)		x (3 Doctors NHS)	x (1 Dentist NHS vacant		
Grise Flord				1					x	
Igloolik						x			zt I	*** ******
Lako Harbour						x			x	****
Padloping				1		x			x	
Pangnirtung			x (Anglican Mission)	33						
Pond Inlet						x			x	
		_								

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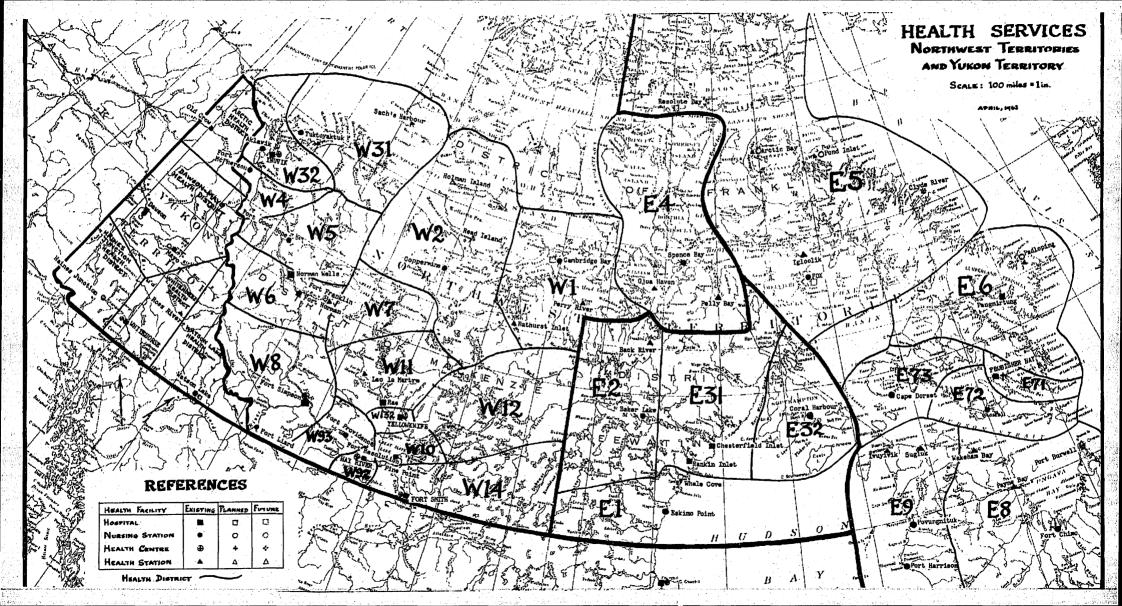
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Place	Hospitals		lursing Etations	No. of Beds	Health Centres	Health Stations	Modical Clinics	Dental Clinics	(with omergency	Communit Hoalth Workers
osolute Bay									x	
ort Burwoll						Planned 1964			x	
CTAL ASTERN ARCTIC ZONE	1	28	3	41	1	6	l Clinic (3 Doctors)	l Clinic (No Dentist)	9	
OTALS ORTHWEST TERRITORIES	8	395	18	137	7	13	9 Clinics (17 Doctors)	5 Clinics (4 Dentists)		
					1			1		L

- 6 -

(Hospitals at Chesterfield, Fort Resolution and Pangnirtung are listed as Nursing Stations, duo to the fact that there is no resident Doctor at these institutions)



REPORT ON HEALTH CONDITIONS

in the

NORTHWEST TERRITORIES

1963

ERRATA

Revised figures received from the field make necessary the following alterations.

Under sub-heading 'Tuberculosis' -

Line 2	-	0.94%	should read	1.08%
Line 3	-	2.1%	should read	2.48%
Line 6	·	37%	should read	31%

TABLE 12 should be altered as follows -

Eskimos - 1963		
178	should read	212
2.1	should read	2,48
76	should read	37

Total Population 1963

227	should read	261
d . 94	should read	1.08
94	should read	55