NORTHERN HOUSING AND HEALTH

Introduction:

Let us suppose that a southern Canadian writer -- an independent citizen living in liberty -- decides to go to Pond Inlet, at the
northern end of Baffin Island in the Northwest Territories, to live permanently
in a quiet, peaceful atmosphere helpful to his muse. Being a wise man, aware
of the needs of his wife and three small children, he begins to investigate
costs. Eventually he abandons his plan. The capital cost of building even
the simplest three bedroom house at Pond Inlet is more than he can possibly
afford.

another thinks nothing of doing business with a real estate company to the tune of \$12,000 to \$35,000 for a three bedroom house. Moreover he can do this with only a few thousands dollars in cash. But let him try to get a house built in the north for this kind of money and let him try to get it built on twenty or thirty year financing.

He will find that to get into the north even for a visit requires quite a financial outlay and settling there as a private citizen to live in a manner approaching that to which he is accustomed in the south, is out of the question (except perhaps at Yellowknife, Fort Smith or Hay River) unless he is sponsored by the Government or by a company.

If he does visit, he will find private citizens but he will find most of them living in tumbledown buildings, even shacks, and he will be appalled at the way the Eskimos and Indians live (unless of course he fails to realize that they are Canadian citizens too).

If the north is to be settled (and surely it cannot be satisfactorily developed unless it is settled), encouragement must be given to settlers as well as the transients it now has. The barrier formed by the high capital cost of housing must be overcome, even assuming that high wages will overcome the high cost of operating and maintaining housing, once it is provided.

citizens -- not simply be called first class citizens by well meaning fellow

Canadians -- they must have decent housing, comparable with that enjoyed by

other Canadians. The present "status system", by which the majority of Canadians

judge each other, makes this mandatory. Anything less than "average" southern

Canadian housing for the Eskimos and Indians automatically brands them and

their children as less than "average" Canadians. Making high sounding statements

at conferences and writing glowing accounts in the press about the attributes

of these "first Canadians" will not erase the fact that many of them are not

housed as well as many Canadian cattle.

What are the Minimal Standards for Morthern Housine?

The Committee on the Hygiene of Housing of the American
Public Health Association has declared (1) the following fundamental standards
for healthful housing:

- A. Fundamental Physiological Needs:
 - 1. Maintenance of a thermal environment which will avoid undue heat loss from the human body;

- 2. Maintenance of a thermal environment which will permit adequate heat loss from the human body;
- 3. Provision of an atmosphere of reasonable chemical purity;
- 4. Provision of adequate daylight illumination and avoidance of undue daylight glare;
- 5. Provision of admission of direct sunlight;
- Provision of adequate artificial illumination and avoidance of glare;
- 7. Protection against excessive noise;
- 8. Provision of adequate space for exercise and for the play of children.

B. Fundamental Psychological Needs:

- 9. Provision of adequate privacy for the individual;
- 10. Provision of opportunities for normal family life;
- 11. Provision of opportunities for normal community life;
- 12. Provision of facilities which make possible the performance of the tasks of the household, without undue physical and mental fatigue:
- 13. Provision of facilities for maintenance of cleanliness of the dwelling and of the person:
- 14. Provision of possibilities for sesthetic satisfaction in the home and its surroundings;
- 15. Concordance with prevailing social standards of the local community.

C. Frotection Against Contagion:

- 16. Provision of a water supply of safe sanitary quality, available to the dwelling.
- 17. Protection of the water supply system against pollution within the dwelling.

- 18. Provision of toilet facilities of such a character as to minimize the danger of transmitting disease;
- 19. Protection against sewage contemination of the interior surfaces of the dwelling;
- 20. Avoidance of insanitary conditions in the vicinity of the dwelling:
- 21. Exclusion from the dwelling of vermin which may play a part in the transmission of disease;
- 22. Provision of facilities for keeping milk and food undecomposed;
- 23. Provision of sufficient space in sleeping-rooms to minimise the danger of contact infection.

D. Protection Against Accidents:

- 24. Erection of the dwelling with such materials and methods of construction as to minimise danger of accidents due to collapse of any part of the structure;
- 25. Control of conditions likely to cause fires or to promote their spread;
- 26. Provision of adequate facilities for escape in case of fire;
- 27. Protection against danger of electrical shocks and burns;
- 28. Protection against gas poisonings;
- 29. Protection against falls and other mechanical injuries in the home;
- 30. Protection of the neighborhood against the hazards of auto-

Protection from dogs must obviously be added to this list when thinking of housing for Northern Canada. Should any single item be removed from this list? Are these standards too good for northern citizens?

Rather let it be admitted that northern housing should be better and larger

than in the south because so much more time must be spent indoors, particularly by children.

Fire is a much more serious matter in a northern settlement because of the cost of replacing buildings and equipment. Therefore
buildings built of wood must be adequately spaced from each other. This
lengthens utility service lines and raises costs. Yet southern citizens
accustomed to modern conveniences will not go to the north for long unless
modern public utility services or reasonable facsimiles thereof are available.

In the larger settlements such as Imuvik, Yellowknife or Frobisher Bay, community power, water and sewerage have been provided or are being planned. In the smaller settlements, because of the nature of their development by various agencies of Government (or the Hudson's Bay Company or Missions), it is not uncommon to find several small generating stations providing power, a variety of toilet and water supply systems, various methods — from the crude and effective to the dangerous — for the disposal of waste water and excreta, and various methods of heating. With some planning and "getting together", some settlements are beginning to share their resources, but much remains to be done.

The Need for Better Tousing for Eskimos. Indians and Metis:

The relationship between poor housing and the 23% mortality of Eskimo infants was demonstrated empirically in the book "Eskimo Mortality and Housing" (2). Death certificates of Eskimo infants show that about half died of acute diseases of the respiratory system. For most of the remaining half the stated cause of death was recorded as being "unknown". There is

good reason to believe that many of these were also due to acute diseases of the respiratory system (and this excludes tuberculosis, which killed only six Eskimos in 1959). There is ample evidence from nurses, missionaries and members of the R.C.M.P. that lack of adequate warmth and shelter during the critical first year of life killed some babies and hastened the deaths of many more. The fact that more than half of all Eskimo deaths from all causes occur during the first year of life supports this argument.

It is interesting that Mr. Abraham Ogpik, an Eskimo from Aklavik, in addressing the Second Conference on The Canadian Eskimo, sponsored by the Indian-Eskimo Association of Canada in Toronto in early 1960, at least twice made the point that what the Eskimos need most is good food, warmth. shelter and education.

Statistics for Indians and Metis living in the Northwest
Territories are not as readily available as for the Eskimos. The Indian infant
mortality rate was about 9% in 1958. That for the Metis is not known. The
all-Canada rate is 3%. The lower Indian rate can probably be explained by the
availability of timber for log cabin construction and for fuel, longer association
with the white man and therefore emulation of his ways, greater availability
of medical and mursing care, and the fact that more Indian families exist on a
wage economy or can augment their hunting and trapping by part time or sessonal
ware employment.

A serious attempt is being made by the Department of Northern Affairs and National Resources to institute a housing program for Eskimos. The

"rigid frame house", a single room about 16 feet square, is to be erected in quantity in the north. This house was developed by the Building Research Division of the National Research Council working with members of the Northern Administration Branch. Structurally it is probably the strongest and best insulated house that can be built for the materials and effort expended. But is this the best that can be done to meet the Eskimos' need for warmth and shelter? Are warmth and shelter all that are needed in housing the Eskimo? Is "better than he had before" good enough? Will it save him from dragging through a generation of the "slum" stage of "development" that can be seen in Africa, in India, in South America or even on the fringes of some of our own cities? If this "rigid frame house" is not provided with adequate sanitary facilities, is there not a possibility that the pneumonia that now kills so many Eskimo babies may simply be exchanged for death from infant diarrhoea -a common cause of infant deaths wherever insanitary living conditions prevail? Or are we counting on the fact that the north is naturally refrigerated for most of each year?

Under the public health legislation of the Northwest

Territories "a building used for human habitation shall be deemed to be insanitary

if there is not in all sleeping rooms an air space of 400 cubic feet for each

occupant 10 years of age or over and 200 cubic feet for each occupant under

10 and over 1 year of age". Providing scarcely more than 1,500 cubic feet of

air space, the "rigid frame house" allows barely enough sleeping space for two

adults and four children under 10 years of age (if one ignores the cubic

capacity of all the bedding, the stove, meat supplies, clothing, hunting gear.

the family's bag of flour and all the other items that take up "air space" in the average Eskimo "home").

One hears criticisms that the Fskimo would not use a larger house and could not heat it if he had one. Yet one can see two and three roomed "houses" of wood and canvas eccupied by 'skimos at Tuktoyaktuk.

Clyde River, Probisher Ray and Resolute Bay. There is ample evidence to prove that, where the Eskimo has been able to get the materials, he has built houses containing more than one room and more than 256 square feet (the minimum area of the "rigid frame house").

Sanitation and Personal Dignity:

whether we like to admit it or not, personal elemniness and freedom from noticeable body odour have become status symbols in our society. Broadly speaking, Canadians may be divided into those who small and those who do not small — those who have the means and the knowledge to use soap and decdorants (the white collar "class" and most of the labouring "class" — after 6 p.m.) and those who cannot obtain a bath or shower without great difficulty or expense or who do not realize how important bathing and decdorants are to joh-getting and job-keeping. To the average Canadian the importance of not smalling (except to his dog) has been magnified out of all propertion, through the insidious prepagands of the cosmetic industry, to the point where a man cannot stand with dignity amongst his fellows if he smalls of sweat.

The Canadian adolescent is becoming acutely some of the importance of looking clean and smelling sweet or not smelling at all. This status symbol is glorified for its own sake in advertisements, in the movies

and even in school health textbooks. Perhaps one of the reasons young Canadians seem to prefer urban to rural living is because close proximity housing provides the necessary sanitary facilities at a minimum of expense, for use with a minimum of effort. In our towns and cities the day when a bath every Saturday night was all that middle class society demanded is nearly gone. To hold up one's head and look people in the eye the daily bath or shower is now essential.

men. His eye is clear, his head is high and his dignity remains intact, even if he sometimes smells. So long as he remains with his own people and they all smell together, this state of dignity will remain. But is he not already regarded by visitors to this tent with pity as one of the last remaint of "the great unwashed"? Is it not partly on the basis of his lack of sanitary facilities and knowledge of personal hygiene that most Ganadians -- shame-facedly perhaps -- would have to admit that they think of him (if they think of him at all) as a "second class citizen"? And yet it is instructive to observe how readily those Eskimos who have been brought to Southern Canada for medical treatment, education or employment have taken to bathing, clean elethes and decderants. It would be interesting to find out whether or not any of those who have returned to the old ways ever miss the hot and cold running water and the feeling of almost total immersion in soap suds.

Another status symbol is the flush toilet. Canadians may be divided into these who sit on flush toilets and those who put up with "chemical" (?) toilets or the eld fashioned pit privy. When you have hot and sold running water, a washing machine and a flush toilet in your home you have arrived. Anything less puts you into Class B right away.

The Eskimo's world is changing. Over 700 have come to Probisher Bay, to live alongside the white men and watch his ways. The Eskimo is starting to compete for jobs with his white follow Canadians. Is he going to be able to cross this samitary status barrier unless he is provided with facilities for eleculiness, laundaring of clothes and for the disposal of excrete equal to those available to his white follow Canadian? And can one expect as many of his children to survive and grow up feeling equal to their white follows unless adequate samitary facilities are provided in their homes? Only northern school teachers and marses really appreciate the degree to which our northern native children are afflicted by skin disease and head lice.

for Indians and metis), it is not enough merely to provide warmth and shelter. There must be enough space for sleeping, feed preparation and escking, eating and recreation. There must be privacy for adults and especially for adelescents (particularly those who need peace and quiet to study). It is no use saying that the Eskimo adelescent is quite accustomed to dressing and undressing and sleeping in the same room with his parents and his younger busthers and sisters. This may still be game in 1960 but it is doubtful that it will be true for very much longer in Probleber Bay, Aklavik or even Rankin Inlet. Planning a housing program takes time and it is suggested that be one a program planned in 1960 could be put into effect (say over a five year period), many Eskimo families will know about and want to have the same standards of living, of privacy, of samitation and of decempy that most other Canadians regard as vital to their

dignity and way of life.

The Philosophy of Attack on the Problems of Cost:

All this is very well, but how can typical Canadian housing, even by rural standards in the south, be made available to northern people who have scarcely any money to pay for it? How could it be provided free or heavily subsidized without setting dangerous precedents and "spoiling" the recipients of such benefits? Even if the capital costs were met, how would the housing be heated, lighted and kept in repair?

home or is in process of adquiring it and this means a detached house with several rooms, with hot and cold running water, a flush toilet, a separate kitchen, living room and sleeping accommodation sufficient to allow the adults to sleep apart from the children and usually the males from the females. However, there are many Canadians living in urban areas who have been forced to live in semi-detached, row housing or in apartments. Apartment house living is becoming quite equation. The same is true in other countries and there is ample evidence in other countries to show that one of the ways to provide low cost housing in quantity is by apartment style housing.

It was noted at the last meeting of the Eskimo Affairs

Committee (1960) that the Eskimos present rejected the idea of living in apartments. That is all very fine if they can afford detached houses. Obviously the average first class Canadian citisen, given the means, would prefer his own detached house standing in its own grounds. But beggars cannot be choosers.

Namy first class Canadians have found out that they must compromise to live

within their means. Perhaps the Eskimo, if he were to see a typical middle income level apartment in southern Canada would also be willing to compromise. Has he ever been given the chance to decide? The "rigid frame house" may be a miniature "detached house standing in its own grounds", but it is a poor imitation of the real thing.

The average first class Canadian citives tries to buy his own home. The normal thing in Canada is to buy rather than to rant. Somehow renting seems to be regarded with mild soors. But is this a good reason for deciding that the Eskinos must buy their houses? It was pointed out at the Eskino Affairs Committee (1960) that one of the reasons the "rigid frame house" exets the Eskino so much is that it must be paid for within ten years. How many other Canadians pay for their houses in ten years? Would it not be better to design a house for Eskinos providing more space plus essential sanitary facilities, built soundly enough to stand an amortization plan oswering 20, 30 or even 50 years?

This is easier said than done, particularly with respect to the provision of adequate sanitary facilities. Probably on a "detached house" basis, it is impossible within what the average Eskimo femily will be able to pay for some time to come. Hany metis and whites would not be able to afford to buy such a house outright (in the Northwest Territories) and what company would lend the money on a 20 or 30 year mortgage!

A further point is that the deteched house with all four of its walls and its roof exposed to the weather is surely the most expensive type of house to heat, other things such as sire and insulation values being

equal. The apartment house, on the other hand, brings many of the benefits of urban close proximity housing such as chared utility services and lower heating costs per cubic foot, and may even cost little more per cubic foot to build, if carefully designed. But spartments are usually remind not sold. Is this why we seem to have shied away from a careful examination of this approach to the Eskimo housing problem? Renting is perfectly respectable in many parts of the world, particularly for poorer citizens. It could be respectable in the north for the Eskimo if we make it so. Hearly all civil servants working in the north rent their homes. Why should not the Eskimo do the same?

Preposal:

of the costs of creeting and maintaining apertment type housing blocks in northern settlements, for rent to any family, native or white, self-employed, company-employed or Government-employed. To give them a chance to emjoy better housing and in particular modern sanitary facilities, Eskimos, Indians, and metis unable to afford the rent for a whole spartment would be permitted to form "syndicates" of several families, each "syndicates" renting a whole spartment, each family in the "syndicates" occupying one or more rooms according to its contribution towards the rent. Rents for individual rooms would be fixed by the renting agency and occupancy would be subject to the scrutiny of welfare and health officers to prevent gross overcrowding.

A suggested design for such an spartment house complex is attached. Apartment "A" is labelled as if occupied by a "syndicate" of families, sharing the modern bathroom and kitchen. Apartment "B" is labelled as if occupied by a single family (which could be Eskimo, Indian, metis or white, providing it could afford the rent).

The features of this apartment house complex are as follows:

- (a) It consists of twelve three-bedroom spartments arranged in three blocks of four, two storeys, with two spartments below and two above. In some areas basements could be provided.
- (b) All twelve apartments are served by a contrally located utility building providing heating, electric power, a water supply system, hot water supply, laundry and workshop. Services pass to the apartment blocks in utiliders under connecting passageways. Where basements cannot be provided, waste water holding tanks would have to be added to the utility building.
- (e) The spartment blocks are spaced so as to minimize
 the spread of fire from one block to another or from
 the utility building. All cooking, lighting and other
 services in the spartment blocks would be by electricity.
 Frimus stoves, gasoline lanterns and the seal oil lamp

would be forbidden, but it is believed the change to electricity would not prove too difficult for the Eskimo if a special effort were made to explain the merits of the change to him.

- (d) The apartments in each block are placed one on either side of a common hallway, where the connecting stair-case to the second storey is located. The passage connecting each apartment block to the utility building leads off the rear of this hallway, as do doors to the outside enclosed children's playing areas.
- (e) The apartments are placed at an angle to each other in each block to provide a more interesting overall plan and to minimize direct overlooking from one apartment into another.
- (f) The rooms in each spartment are based on 12 foot spans to permit a maximum of prefabrication in construction.

 Rooms are unusually large because
 - (i) more time must be spent indoors in the north;
 - (ii) bedrooms must be able to accommodate whole families.

 Thus the smallest bedroom is 12' x 16' x 9' or 1,728 cubic feet. Such a room could be used legally by

 4 adults or 2 adults and 4 children under 16 years of sge. It provides about the same space as a "rigid frame house" but of course bathroom, kitchen

space, hallway space for children to play in bad weather, and closet space are extra.

- (g) Each apartment contains the following basic arrangements:-
 - (1) A large entrance room in which parkas can
 be removed, boots and children's sleighs
 and skiis, etc. stored where the mess
 that is made on coming indoors from the
 northern outdoors can be made without tracking up the rest of the apartment.
 - (11) A small hall on to which all the other rooms open.
 - (iii) A large living-dining room combination.
 - (iv) A large kitchen adjacent to the livingdining room.
 - (v) Three bedrooms.
 - (vi) An oversize bathroom with hot and cold running water, using the plastic-liner-inmetal-container type of "dry pan" toilet.

 This is obviously a compromise and it may be that a better type of toilet could be provided (such as the "Destrol" type of toilet being investigated by the Departments of Transport and National Health and Welfare).

(vii) Plenty of closet space built in.

Capital costs of such an apartment house complex are

estimated as follows:-

	100,000	cubic	1
-	300,000	cubic	1
	36,000	cubic	1
	9,000		
	345.000	oubic	1
deresh	\$414,000		
-	\$ 34,500		
<i>5</i> 90			
600			
	\$107.50		
-	384 sq.	ft.	
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W	471 sq.	ft.	
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Therefore,

-one of the small bedrooms should therefore rent for --\$19.43/month

-master bedroom should therefore rent for -- \$20.95/month

-living-dining room should therefore rent for --\$47.67/month

Included in this rent would be the shared use of the bathroom, kitchen, hallways, and the use of one hall closet

Principles

The Genedian Rents or Burs What He Can Afford:

class Canadian citizen rents or buys what he can afford in order to put a roof over the heads of his family. The affluent Canadian owns his own ten room house on Island Park Drive. The unmarried Canadian young man delivering coal may rent only one room in an urban boarding house. There are plenty of Canadian couples in Toronto and Montreal housekeeping in single rooms.

Other Canadians occupy all types of accommodation in between these two extremes. Rents or mortgage payments may range from \$250.00 to \$350.00 for the plush apartment or fine multiroomed house to rents in the city as low as \$5.00 a week for a miserably small room without any special amenities.

Surely the Eskimo can be a first class citizen and still fit into such a scale. If he has the necessary \$107.50 to rent a whole apartment in the apartment house complex described above, because he happens to be working as a skilled bulldozer operator at Probisher Bay, for example, so much the better. However, if he is employed only part time or even hunts and traps for a living, let him rent a single bedroom for \$19.43 a month.

His dogs could be accommodated in a section of a Steleo fenced compound, the equivalent of the southern "garage", and he could be charged an extra \$2.00 a month for this privilege. He could go on hunting trips for days at a time, knowing that his wife and children were warm and safe, his children going to the local school. While away he would use a tent or snow house --- a fine place for an adult hunter in good health but death to small bedies.

Across the hall from a "syndicate" of Sakimo families renting an spartment, there could be a white teacher and his family, renting a whole apartment. Upstairs there might be an apartment rented between any two Eskimo families, perhaps sharing the living-dining room as well as the bathroom and kitchen, by means of appropriate adjustments in the rents.

A Housing Authority:

Perhaps what is needed in the north is a Housing Authority, set up under the Central Mertgage and Housing Corporation or established by special legislation as an agency of the Department of Morthern Affairs and National Resources or the Department of Public Works. This agency would be given a large appropriation with which to build apartment house blocks in all the northern settlements, enumencing with the places where better housing is obviously needed now, such as Rankin Inlet, Probisher Bay, Fort Simpsen, Fort Norman, Eckimo Peint, and Cape Dorset. It would be a management agency renting spartments, but it could also build for sale to Government Departments.

There is no reason why the actual building could not be done by private enterprise.

Is the idea of a Covernment sponsored agency getting into the apartment rental business for the benefit of private citizens so strange? In southern Canada, yes, but the north presents a different situation. If the Government wants to reduce the costs of its medical care, hospitalization and welfare programs in the north, let it improve housing for one thing. It is highly unlikely that private enterprise will take the necessary financial risks for the satisfaction of seeing Eskimos, Indians and metis in decent housing. Why should the Government not develop a scheme of this kind? If it doesn't spend the money solving the root problems, it will only spend it paying for the resulting sickness and welfare assistance.



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CANADA

DEPUTY MINISTER OF

NORTHERN AFFAIRS AND NATIONAL RESOURCES

OTTAWA, October 19, 1960.

Dr. John S. Willis, Indian & Northern Health Services, Department of National Health & Welfare, Booth Building, Ottawa, Ont.

Dear John:

Thank you very much for the loan of your paper on Northern Housing and Health. I read this with great interest and think you have advanced some interesting ideas as well as brought together a lot of detailed information. I would like to go into it in more detail with you in discussion rather than outline my comments in writing.

I am a little uneasy about several families sharing the same facilities, and I am not sure whether the Eskimos differ from the rest of us when it comes to being frustrated because of inconvenience. Let's talk about it.

Yours sincerely,

V.F. Valentine,

Chief Research Officer,
Northern Co-ordination
and Research Centre.

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-Yours sincerely,

Olinan, October 19, 1960.

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Dr. John S. Willia,

NORTHERN HOUSING AND HEALTH

John S. Willis

JAN. 18 , 1961

- 1. Indian infant mortality in the Northwest Territories 9% of all live births, or 39% of total deaths of Indians from all causes.
- 2. Eskimo infant mortality in the Northwest Territories and Quebec 23% of all live births, or 51% of total deaths of Eskimos from all causes.
- 3. Canadian infant mortality 3% of all live births, or 11% of total deaths from all causes.
- 4. Four reasons suggested for these high native mortality rates:-
 - (a) Greater exposure, particularly because of more whites visiting the North and because of east-west communications provided by the DEW line, where communications used to be limited largely to south-north.
 - (b) Lack of reliable and continuous warmth and shelter and adequat i nutrition.
 - (c) Aggravation of illness by poor environment and by parental neglect (because the parents themselves are often prostrated by the same illness e.g. "influenza").
 - (d) Lack of quickly available medical care, because of sparseness of the population and the impossibility of having professional staff with in easy reach of each native community.
- 5. The following points are amongst many that have a bearing on this subject:-
 - (a) Since with respect to spheres,

- it is approximately true that a baby has a greater surface area in relation to its mass than an adult and therefore greater heat loss pound for pound.
- (b) The 18 inches to 2 feet (in height) of space directly above the level o." the floor of a native shack may be very cold, because of lack of adequate sub-floor insulation and inadequate heating. In his socks and boots the adult tends to forget that his youngsters live in in this "layer" when they crawl on the floor, and can get thoroughly chilled.
- (c) Freedom from body odour, cleanliness and the possession in the home of a flush toilet, running water, a washing machine and a bath have become "status symbols" in our society. Anyone who does not have at least some of these may easily feel that he is a Class B citizen. The native child who is beginning to go to the "white" school may become self-conscious of his body odour and the "tattletale gray" of his shirt. The adolescent will feel this most. It is an angle on sanitation (quite apart from the obvious dangers of an inadequate and unsafe water supply and a bad toilet (or none at all) that should not be overlooked.
- 6. For these reasons (and others) good housing, including adequate sanitation, is needed for Indians and Eskimos -- "Canadian housing", not "Indian housing" or "Eskimo housing". It will take radical thinking, heavy subsidy and bold administrative effort to get it.