## NORTHEN HOUSTNO AND HEALTH

Introduction:

Lat us suppose that a southern Cinadian writer .- an independent citizen living in liberty - decides to eo to Pond Inlot, at the northern snd of Baffin Islend in the Northwest Territories, to live permsnently In a guiet, pesceful atmosphere helpful to his muce. Beine a wise man, sware of the needs of his wife and three smsli children, he begins to investigate costs. Sventurliy he absandons his plan. The eapital cost of buildine oven the simplest three bedroon heuse at Pond Inlet is more than he can possibly afford.

A Southern Cansilion moving his family from one city to 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 recuires quite a finsncial outlay and settling there as a privnte citiven to Iive in a manner spproaching that to wich he is accustomed in the south. is out of the question (except perhaps at Yellorknife. Fort Smith or Hay Piver) unless he is sponsored by the Government or by a company.

If he doos visit. he will find private citieens but he will
Pind most of thom Iivins in tumbledom buil wigs, oven shacks, and he wil the appailed at the way the Eskimos and Indians Ilve (unless of course he folls to realise that thoy are Canadian citizens too).

If the north is to be settled (and surely it eannot be sutisfsetorily developed unless it is settled), encouragement mast be given to settlers as well as the trinsients it nor has. The barrier formed by the high capital cost of housing must be ovarcome, even assuming that high wages will overcome the hich cost of operiting and maintainine housing, once it is provided.

If the Esidmos and Indians are to live as first class citizens - not simply be called first cless citizens by well mosning fellow Canadians -- they must have decent housing, comparable with that onjoyed by othor Canadians. The presont "status system", by which the majority of Canadions judge eneh other, makas this mandatory. Anything loss than "averace" southorn Canadian housing for the Eskimos and Indians sutomatieally brands tham and their ehildren as less than "sverage" Canadians. Making hieh sounding statements at conferences and writing glowing accounts in the oress about the attributes of these "first Canadians" will not ernse the fact thet many of them are not housed as woll as many Canadian cattle.

## What are the Minimal Standaris for Morthern Housins?

The Gomuittee on the Hycien of Housing of the Amorican Pablic Health Association has declared (1) the following fundrmental standards for healthful housing:
A. Fundamentol Physiological Needs:

1. Maintenance of a tharmal environment which will avold undue hent loss from the humen bodys
2. Maintenance of a thermal environment which will pormit adequate heat loss from the humen body:
3. Provision of in atmosphere of reascnable chemical puritys
4. Provision of adequate dsylight illumination and avoidance of undue dajlight glare:
5. Provision of admission of direct sunlight;
6. Provision of adequate artificial illuminstion and avoidance of glare:
7. Protection against excessive noises
8. Provision of adequate space for axercise and for the play of children.
9. Fundamental Psychological Neods:
10. Provision of ade uate privacy for the individual;
11. Provision of opportunitias for normal femily lifes
12. Provision of opportunities for normal comminity 11 fe :
13. Provision of facilities which make possible the perfomance of the tasks of the household, without undue physical and mental fatifue;
14. Provision of factilties for meintenance of claanliness of the dwelling and of the persons
15. Provision of possibilitios for aesthetic satisfaction in the home and its surroundings:
16. Concordance with prevailing social standards of the local community.
C. Frotection Against Contagion:
17. Provision of a water supply of safe sanitary quality, svailable to the dwelling.
18. Protection of the water supply systom against pollution within the dwelling.

## 18. Provision of toilet facilities of such a character as to minimise the danger of transmitting disease:

## 19. Protection against sewage contaminntion of the intorior surfaces of the dwelling;

## 20. Avoidance of insanitary conditions in the vicinity of the direlling:

21. Pxelusion from the dwalling of vermin which may play n part
in the transmission of disesse:
22. Provision of facilities for keaping milk and food undecomposed;
23. Provision of suffictont space in sleoping-rooms to minimise the danger of contact infection.
D. Protection Against Aceidents:

> 24. Brection of the dvelling with such materinls and methods of construction as to minimize danger of sccidents due to collspse of any part of tho stactare;
25. Control of conditions likely to cause fires or to promote their spresed;
26. Provision of adequate facilities for escape in ease of fire:
27. Protaction areinst denger of alsctricel shocks and burns:
28. Protection erraingt ges poisonings
29. Protection against ralls and other mechanical injurles in the home;
30. Protection of the neighborhood against the hevards of automobile traffic.

Protection from dogs must olviously be adied to this 11 st when thinking of housing for Northern Canada. Should any single item be remoyed from this list? Are these standards too good for northern citivens? Rather let it be admitted that northern housine should he hotter 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 southem citicens 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 Inuvik, Iollowknife 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 varlous agencles of Covernment (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 lousine for Eskimos. Indians and Metis:
The relationship between poor housing and the $23 \%$ mortality of Eskmo infants was demonstrated empirically in the book "Eskimo Mortality and Housing" (2). Death certificates of Bskimo 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 belleve that mny 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 murses, missionaries and mombers of the R.C.M.P. thot laok of adecuate warmth and shelter during the eritical first yoar of life killed some bables and hastened the deathe of many more. The fact thit more thon half of sll Jakimo desths from All causes occur during tha firgt year of life mupports this argument.

It is interesting that Mr. Abraham Orpik, an Bskimo from Aklavik, in addrassing the Second Conference on The Canadian Rskimo, sponsored by the Indian-Esidmo Association of Canada in Toronto in enrly 1960, et least twiee made the point thet what the Bisimos nead 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 Esidmos. The Indian infant mortality rate was about $9 \%$ in 1958. That for the Netis is not knoum. The all-Canada rate is $3 \%$. The lower Indiun rate can probably be explained by the availability of timbor for $\log$ cabin construction and for fisel. longer association with the white man and therefore omulation of his weys, greater availability of madical and mursing care, and the fact that more Indian families exist on a wage economy or can augment their hunting and trapping by pert time or sessonal ware employment.

A serious attempt is beins made by the Department of Northern Affairs and National Resouroes to institute a houging program for Fokimos. The
"rigid frame house" a single room sbout 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 warmith and shelter? Are warmth and shelter all that are needed in housing the Eskimo? Is "better than he had before" good enough? "111 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 cuble
capacity of all the bedding, the stove, meat supplies, elothing, hunting gear,
 15 the suerage Efidmo momel.

Ons hese eritholen thet the Fskino would not use a
Iarger home and could mot hoat it if ho had om. Yot one orn moe tre and
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Comutten (1960) thet the Rakimes preseat rejeeted the 1doe of 11vins in apartmouts. Tat is sil vouy fine if ther ant afferd dotiched homese. Ooviouly the averreg flat elas Canodim oftisen. fiven the monn, would profer his cma
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The average first cless Cotedian eltires the to buty




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This is cosior suld than dow, particularly with reopeot to

 per for son tim to oome. Man motis and wites would not bo sble to afferd to bug una a houe outripht (in the Vortherent Forritorias) and rat ecmpen would lond the money on a 20 or 30 yonp moutegest

A further point is thet the detoched homeo wish 11 foup of its mille and its roof expened to the vaither is surely the mert axpusaive type of hoese to beot, othar things suoh as oipe and inculetion values boing
 of urbal olose procinity housing suok as mared utillty somicoe and lower

 this why wo som to have shied enny frow a enrofule examinntion of this approech to the ridino housleg problemf Renting in perfoetiy respectable in many parts of the world, particulariy for poorer oftincas. It conld be reupetabla in the worth for the tidmo if wo mike it e0. Noariy all ofvil swrvats warking in the sorth rent thoir homes. Way should not the figide of the snmit

## Buman:

It is angested that a onrefol examination should be mode of the costs of ervoting and mintaining apartmont type housing blosk in
 ecmpanmaployed or Governnont-maployed. To glve then a thanoe to onjor bettor houring and in particular medert ganitary faolilitien, Buldmos, Indias. and motis mable to afford the rept for a whole apartmoat would ho pormitted to
 mont, encth fmily in the "eypdionte" occupging one or more rocns soconting to its contribetion towards the rwat. Rentm for individeal rocmes would be fixed
 and kealth offleery to provent gross overorewding.

A sugested desing for auch an mpertmant house ocmpler is
 sharing the modarn bathrocm and kitchon. Aperteat mgn in labolled as if oocupled by a single fandy (which coald be gskimo, Indian, motis or wite. providing it could afford the rent).

The fostures of this apartmont house oomplex are as
Pollone:
(a) It consists of trolve throb-iodroon spartannta arranged in three blooke of four, two storays. wh two opertwats below and two sbow. In semo aroas basconts conid be provided.
(b) A11 twelv apartmats are sarved by a ountrally located utility balding providing hoatinm, oleatric pewer. a vater supply ayatem, hot vater supply. Iaundry and werkhop. Servicas paas to the apartmont block in utilidow umor ocmpoting panagoways. Whers buscmante oabnot be provided, veste vetor holding tank would heve to be added to tho utility bullding.
(o) the apartmont blocks are apaced so as to mintire the spratd of fire from one bleek to another or frou the pellity bedidint. ALI oecidn, Lightux and othor sortioes in the apartinnt bicoks wenid be by eleoterletty. Primus stoves. grsolline lantorm and the seal all Inp
would be forbidden, but it is believed the chence to electricity would not prove too diffleult for the Bshdmo if a special effort were made to explain the merits of the ohange to him.
(d) The apartments in each block are plaeed one on either side of a common hallway, where the connecting staircase to the second storey is loented. The passare connecting each apartment block to the utility building leads off the rear of this hallway, as do doors to the outside enclosed children's plsying areas.
(e) The apartments are placed at an angle to each other in each block to provide a more intaresting overall plan and to minimizo diroct overlooking from one apartment into another.
(f) The rooms in each apartment are based on 12 foot spans to pormit a maximum of prefabrication in construction. Rocms are unnsually large becouse
(1) more time must be spent indoors in the north;
(11) bedrooms must be able to sceommodate whole familles. Thus the smallest bedroom is $12^{\prime} \times 16^{\circ} \times 9^{\prime}$ or 1,728 cubic feot. Such a room could be used legally by 4 adults or 2 sdults and 4 children under 10 years of age. 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 wenther and eloset space sre oxtra.
(g) Sach apartment contains the following basic arrange-ments:-
(1) A large entrance room in whioh parkas can be removed, boots and children's sleighs and skils, etc. stored - where the mess that is made on coming indoors from the northorn outdoors ean be made without trackIng up the rest of the apartment.
(1i) A small hall on to which all the other roons open.
(11i) A large living-dining room combination.
(iv) A large kitohen adjacent to the livingdining room.
(v) Three bedroons.
(vi) An oversize bathroom with hot and cold running water, usine the plastic-liner-in-metal-contalner type of "dry pan" tollat. This is obviously a compromise and it may be that a better tyoe of toilet could be provided (such as the "Destrol" type of toilet being investigated by the Departments of Transport and Mational Kenlth and Molfare).
(vi1) Plenty of cleset apace built in.
Capital eests of such an apartwent house complex are

## estimated as follors:-

| Fach apartwent blook ( 4 apartmonts, inciuding hallways and allowigg 25 ft . total haight of two stor(opre) | - | 100,000 cubic ft. |
| :---: | :---: | :---: |
| Taree bleoke | - | 300,000 eubic ft. |
| Utillts serviees builitng ( 15 ft . in height) | - | 36,000 cuble ft. |
| Allarances for pasasagtars and etilldors | - | 9.000 |
| Total cubic eapaoity of complex | - | 345,000 exbic ft. |
| Asmuing \$1.20/oable ft. for constraction at avorage nerthera settlemont, capital eost of cemplex | - | \$414,000 |
| Cost for each apartuent | - | \$34.500 |
| Assulag that this eapital cost conid be anortised throngh a Foasing Authority, uthout intorest or - Hth intoreat rates carried as aboids, over a peried of 50 joars, ammel ropaymont would bo enly |  |  |

Acsmalng anmal sorvioing and maintonance cotst of $\$ 600$
Eatinated total ammen rent por apartment of $\$ 1,290$, or a monthly rontal of
$-\$ 207.50$

Areat of two acallor bedreons, each 192 sq. ft., both - 384 eq. ft.
Area of master bedreom - $20 \%$ st. It.
Asea of Living-dining rean - 4/1 sq. It.
Totel Fentable apace, ascuing that bathroom, Idtethen, hallways are axciuded beoause they are shared, - 1,062 sq. ft.
1,062 sq. ft. rente at $\$ 107.50 /$ month or 10.12 cenfs $/ \mathrm{sq}$. ft.

Thervere.
-ape of the small bodreans shoeld therofor reat fer $-\$ 19.43 /$ month
-mater bedroom should thorefore rept for
-11ving-dinting room should thomitere ropt for

- $\mathbf{1 2 0 . 9 5 / \text { month }}$
- 旪 $67 /$ month
Ineluaded in this rent mould be the shared vae of the bathroom, idtchon, thlimars, and the use of on hall eleset


## Pheminis:

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Let us apply at this pelat the minciple that the flret clase Canadish eltizon ronts or byye whit he tan afford in order to put a roof ever the hoads of hin fandy. The afriant Ganadian own his ove top roon house on Island Path Drive. The manamed Canadan young wan deliveming coal mast setet only one room in an urbas bearding house. There are pleaty of
 Other Crmadians epcuys all types of nacemmodation in betweon these twe antromat. Rente or mortace paymente my ramge from $\$ 250.00$ to $\$ 350.00$ for the pluoh apartnopt or fle mittroomed houso to monts in the efty an 100


Surely the Fskimo oan be flret cless citipen and etill
fit inte mach a seale. If ho hat the noegeary $\$ 107.50$ to mont a thole agartmont in the apartmont house ocmplox doser-lbed abow, beeates ho happosis to bo morkdng as sililod bulldoner operator at Frobleber any, for example. e9 mith the bettor. Eowover, if ho is employed only part thet er owom huto

 the equalalet of the sonthom "enrego", and be could be charged on oxtre O.00 a month for this privilige. Fo could go on mating tilpo for depe at ation, knowing that hie vifo and omidren wore mare and eafo, he
 swew house - a fine plece for an stalt mastor in good bosith lut thenth to memil bebtes.

Aaroge the hall from a "findiento" or toldio fardice suntins aperimat, thore cosld be a wite tancher and his fualis.

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 Mathomil Rocourses of tho Dopartmont of Publio Worte. Thla agemer vould bo







Is the ides of a Covernment sponsored agency getting into the apartsent rental business for the benefit of private eitizens so atrange? In southern $C_{a n a d a, ~ y e s, ~ b u t ~ t h e ~ n o r t h ~ p r e s e n t s ~ a ~ d i f f e r e n t ~}^{\text {a }}$ situation. If the Govemment baris to reduce the costs of its medical care, hospitaliention and welfare programs in the north, let it improve housing for one thing. It is highly unlikely that private enterprise will take the necessary financiel risks for the satisfaction of seaing Bskimos, Indiens and metis in decent housing. Why should the Govornment 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.


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.

VFV:il. Encl.

Yours sincerely,

V.F. Valentine, Chief Research Officer, Northern Coordination and Research Centre.

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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 visitilg the North and because of east-west communications provided by the DEW I ine, where communications used to be limited largely to south-north.
(b) Lack of reliable and continuous warmth and shelter and adequat ; nutrition.
(c) Aggravation of illness by poor environment and by parental negl zct (because the parents themselves are of ten prostrated by the same illness - e.g. "influenza").
(d) Lack of quickly available medicel care, because of sparseness of the population and the impossibility of having professional staff wit 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,

$$
\frac{\text { Surface area }}{\text { Volume }}=\frac{3}{\text { radius }},
$$

it is approximately true that a baby has a greater surface area in re'ation 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 "tattletalo 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 unsafo 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.

