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P. S. R. Mut
apuil 10,1961

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| Smerion |  | Pater |
| :---: | :---: | :---: |
| 1 |  | 1 |
| 21 | Backu blat | 2 |
| 1414 | Hethod of Protwetson | 9 |
| IV |  | 13 |
| v | Projection of Populdston | 14 |
|  | (1) Indtant | 15 |
|  |  | 16 |
|  | (113) Others | 17 |
| V亚 | Suxrmey met Conelnalons | 18 |
|  | Selactut mibluorxaphy | 22 |




 THCHP，1961－70
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26

















33

| \％ |  <br>  <br>  | 34 |
| :---: | :---: | :---: |
| $x 1$ |  1960 | 35 |
| x48 |  <br>  <br>  （Tvin） | 36 |
| 111 |  POWIAR <br>  | 37 |
| 墨V |  <br>  <br>  <br>  | 38 |
| XV |  <br>  | 39 |
| 期 |  <br>  <br>  <br>  | 4.0 |
| 大y 1 I |  <br>  <br>  <br>  | 42 |
|  |  <br>  <br>  <br>  | 12 |
| x 1 業 | MBCTC DL <br>  <br>  <br>  （4） | 43 |
| ＊ |  SCHOOR－ACS CHTLMNE（ $6-16$ YMARS）， 1960 | 4.4 |
| XEI |  <br>  1960 | 45 |
| xuIt <br> 药II |  <br>  | 46 47 |
| \％${ }^{\text {PV }}$ |  <br>  CuTH | 40 |
| 2xv | WOMm <br>  <br>  <br>  <br>  | 49 |


| W142 |  <br>  | 50 |
| :---: | :---: | :---: |
|  |  <br>  <br>  Thentrovire, $1950-59$ | 51 |
| WxvIL |  | 52 |
| 1484* |  <br>  <br>  | 53 |
| x ${ }^{\text {axa }}$ |  <br>  <br>  | 54 |
| \% $\times 1$ |  <br>  155-58 | 5 |
| xxyl |  <br>  | 56 |
| 20x4T4 |  <br>  <br>  <br>  | 57 |
| *** |  <br>  <br>  | 56 |
| 3x40 |  AKD Hack Daccuavis) | 59 |
|  |  <br>  Btamakn) | 60 |
| *xxvis |  AHD Mackevew bxs\%ucta, 1961-65 | 62 |
| 8xver |  <br>  | 62 |
|  |  Worvincs | 63 |
| *** | powtatrow hnorecrion op omeag In <br>  | 64 |
| \%** |  <br>  01smarcte, $1961-65$ | 65 |
|  |  <br>  D"stucern, 1966 -70 | 60 |


|  |  <br>  <br>  | 67 |
| :---: | :---: | :---: |
| \%xX\%IM |  <br>  DISTRIC28, 2966-70 (315 Decmach) | 68 |
|  |  Fo A (AOE 6-16 THANS), 1961-65 | 69 |
| 4xxyz |  <br>  DLETECTS, 1966-70 | 70 |
| xxxvz |  <br>  <br>  | 71 |
| *xxvers |  Years) OF monting you Alctic ano HACKMEIE DTSTKICTS, 1966070 | 72 |

## T. Munnoce and soone








 children for wehoolind











 5\%o Jockions, and,
 the number of schoal-s entionmen to 1970.

[^0]For the purpeo of this study, children aged 6




The population wh Wrthem Canada is abaposed of






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 to to $19 \% 0$.

## 11. Sacte Data

The bavic anta for hin eludy aro the population



 athember 3lat. 1960.

The 1951 Cengus of Canace provided, amonk other things, information on the population of the Northwest Territories by racial origin, while the 1956 Consus lacks similar particulars. However, in the 1951 Census it was only the total population for the whole of the $\mathrm{H} . \mathrm{N}$. . that was classified into racial and age groups, but a similar breakodown by looality is not available for district or region or arpa. Owng to the absence of required population statistios in the preceding two censuses, it has become necessery to collect the data from other, but reliable soureas.
avalable friformation on the sive and structure of Indian population up to the end of 1960 , has been collected from the Indian Apfatrs Branch of the Department of Cftizenship ma Imalgration, while similar informathon relating to Eskimos has been obtained from a recent study made by tho writer for our Welfare Mivision. The 1959 Consus of Indian population, coupled with the subsequent natural increase, and the rskimo Index of the Helfare Division, provided the necessary athentic and bastc statistics for Indiang and Kskimos respoctively; but, in the case of "others", no such data are available to ascertain the size and stmucture by are and nex groups, either for the Worthwest Territories as whole, or for each of the administrative districts. In the circuastances, the only other alternative to obtain the required deworpaphic data of "others" is to depend on a realistic estimate.

The Dominion Bureau of statistics, the Indian and Northom Health Services (Dr. Willis) and the horthern Adminise tration Branch hawe diferent population ostimaten for the N. .T. Whate the Dominion Bureau of Statistics ontimatect the total population of the W.W.T. for 1960 as $22,000,^{2}$ the Indian

2please see Catalogue No. 91-202 (for September 1960) prepared in the Social Andysis Section, Cencus Diviation of the Dominion Burean of Statistics.
and Werthern Health Servicen estumated it as 22,918, and the Northern Admaistration Branch obthanted fotal population

 it is avident that Das, Incian and Rorthorn Health Services, and the Northarn Mdinistration aranch wad difforent bates and
 have to be utilised to fint aut messonbly reliable ther of "etherest by wge groups.

 the umal five-yoar age groups, which is Important for thit otudy. The total population of Hodian ( 4,744 ) and Kakinos ( 8,017 )

 populaton of all maees $(22,085)$. The bunance arrived at by this methot, whin in 9,324 , relates to tho population of "others*, as shom below.

## Population for M. Mi. T. 1960

Total population of all reces, as

(In powa ane groups personn mumbering
lose than 90 were omitted in the


from 22,000 to 22,085.)
Total Indian population 4.744

Total Indian and Isklimo popalation 12,761
Briano - Total of "athers" 9,324






























 bate population of other: It 1. wrinted to the distribution
 *other" wat 8.324 faw 1900, we would bave 1.570 mehool-wre















14 Lig obarved thet the muber or parsons relating

 the sueceding are zroup 15-29. or all the age groups up to









[^1] ta a whole has aproportton of 33.5 for 1960.4
 birthe und dome of Intidna, Eskino and "othere for the




 over deathe por wor way 200 for "otherwis, 155 for finkitan and 94 for Indsans. The birth ratas and mortnitty rates for the nbove poriad could not bo worked out du fe lack of inforgation ralakis to total populhtion for enth yum by whal orimin.


 1956 to 1958 show that tho forthwest Trrottorien a








 poprlabion far ach of the ratid groupt ought to he her


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 1957, Fages 95 and 110-11; 1958, Peges 99 tam 116-17.








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## pablo A


(4y vernantwnes of watw)

| (1) <br> hate urous | (2) | (3) | (4) | (5) |
| :---: | :---: | :---: | :---: | :---: |
|  | of the Total Population | 39105 | Fenales | Total |
| O-4 | 15.3 | 8.4 | 6.9 | 15.3 |
| 5-9 | 11.6 | 6.1 | 5.5 | 11.6 |
| 10-14 | 5.0 | 4.2 | 3.9 | 9.1 |
| 15-19 | 6.5 | 3.2 | 3.3 | 6.5 |
| 20-24 | 7.1 | 4.8 | 2.3 | 7.1 |
| 25-29 | 21.3 | 6.7 | 3.6 | 10.3 |
| 30-34 | 10.1 | 6.6 | 2.3 | 9.1 |
| 35-39 | 6.8 | 5.8 | 2.0 | 7.8 |
| 40-44 | 6.8 | 3.9 | 2.9 | 6.6 |
| 45-49 | 6.0 | 3.8 | 2.1 | 5.9 |
| 50-54 | 4.7 | 3.2 | 2.5 | 4.7 |
| 55-59 | 3.4 | 2.7 | 0.7 | 3.4 |
| $60-64$ | . 9 | 0.6 | 0.3 | 0.9 |
| 65-69 | 1.5 | 1.2 | 0.3 | 1.5 |
| 70. | 1.0 | 0.6 | 0.4 | - 2.0 |
|  | 100 | 61.8 | 30 ${ }^{\text {a }}$ | 100 |

Aecording to the revised stracture shom in
colum 5 of the above table, the gehool-wge chtaren of "Otherm" for 1960 worte out to 1.964, as apgenet 1.972 chiluren envolled, won of whow would heve been aves pohoal-Hye. Since the nuaber arrived at in the above process, namely 1.964, relates only to the mool-age childrem, the modifiter distri-


Therefore, the populetw of "otherpt for 1960 hat becn
 basm on the percentaces shom 1 octurn $3 m$ of Tablen. The




## 13. Method of Prosection

 Profection inthot, which 1.8 most aut table to protect the fohool-
 chanter affecting ach meobortrio of the population is poostible under this sethod.

 used for the aprilcation of thi wathod to calculate the future curvivord at the and of sech yowr.

 hate been eslculsted from the dak published by the Vitul statistice

 of person bom durint the sam poriod (in this study dap-year partod) and whobolong to the game age group at any kiven time. Less se population studien Wo. 25 Mathode for Poouletion Profectione by jex and A0, publiwhed by the Unitud Nationw,


[^2]hes been chosen as the base period and the total population as of thim date has boen chlculated by age and sex groups shown in Table $4 x x I$. .

The expected numbor of child births has been calculated by multiplying the number of wowen in the sge groups from $15-49$ with the age-specific fertility rates. The existing sex ratio, which is 1,000 females for 1,133 males, has been appliod to arive at an approximate number of ande andemale children out of the expected number of births. The expected number of infant deaths have been deducted from the birthes and the numer of survivors have been derived.

The expectod number of death in each cohort has been onlculated by applying the agempocific death watea. The not population at the and of each year has been arrived at by transferxing one-fifth of each cohort to the next cohort, and by adding the sumvivors of future berths to cohort 004 . Thus, the population of all races has been projected until 1970. Based on the projected population, the number of children aped $6-16$ has boen calculated by the method of prompting the population in the sge groups 5-9 and 15-19.

Apart from the fertility and mortallty rates mentioned above, mixation is another factor to be considered for projecting the future populstion. The following press clipping of the Ottawa Citizen of March $30 t h, 1961$, relating to inmigration into Canada indicates that there would be a decine in immigration for the next decade:

[^3]









``` Th wroolt Wan
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``` Fentro
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## 7able

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Hunbsy of chicran under 18 Xetro of hace
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Leat
1950
459
1592
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1954
1955
1956
1957

155a

1959


## 1 Mate of gut

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23
32
$(6-16$ years $)$

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 1950 to 1960.9
 the ergation ather from other cowntieg or other provinoms in


 1948-60. THis thelu was based on the monthly peporta on

 Tuton are not avilablo in tat Cabie.

Canada. Since this study covers Arctic and Mackentie Districts. it may porhaps be estimated that owing to the possible general cecline in the future fandration, about 10 school-age children ver year might mirrate into the North. As the number $1 s$ neglísible, utration seems to have very little impact on the projections of future school-age enildren. Hence, the factor of migration has been left agice in this gtudy and fertility and mortality alone have beon taken into conslderation.

## IV. Asgumptions

The basic assumplions of this study are as follows:

1. That mortality and fertility would remin at the leval of average for a three-year pertod, namely, 1956, 1957 and 1958.
2. That the existine sex ratio of 1,000 Fomalas Cor evary 1,133 males would continua to extat for the period of projection.
3. That infant mortality rates would have a slight reduction dut to the general improved conditions particularly those of modieal and housing facilitise.
4. That mining and industrial dovelopment activities would not necessitate large scale rovement of familes with school-age children.
5. That miceration of gehool-ang chilaren trom other countrieg and provinces of Canada into Arctic and Hackenzte Districts would be negligible and would not exceed ten children per year.
6. That there would be no larese scals moventint of Indiens or Eskimos or othera from Wortham Canada to mouthern Canda.

``` that peaceful conditions would provaty over that parkod of projoctiont.
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``` on the above aspumptrions.
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## *. revection of entityon


#### Abstract

    porus stion has been projecter wnt1) 1970 (becerber 31st) by   cohort for $1961-65$, and $1966-70$, wewpectwely. The projecteat    the sohool-wge chiterow woule contututo 25.6 of tho protectad 


Tablec
 $1961-70$
 In Growth 01

Pewcentarn
Tatal Populikton ferowetuse School-Age of lotal


| 1960 | 25,700 |  |  | 6,341 | 24.7 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1961 | 26,251 | 551 | 2.24 | 6,669 | 25.4 |
| 1962 | 26,816 | 565 | 2.15 | 6,887 | 25.6 |
| 1963 | 27,412 | 596 | 2.22 | 7,005 | 25.8 |
| 1964 | 28,024 | 612 | 2.23 | 7,247 | 25.8 |
| 1965 | 28,664 | 640 | 2.28 | 7,441 | 25.9 |


|  | $\begin{gathered} \text { rotal } \\ \text { gosplation } \\ \hline \end{gathered}$ |  <br>  Foptul tien (Hgse Petcol) |  <br> Dy Lucteran |  |  O ${ }^{2}$ Wotal $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1966 | 29.354 | 66 | 2.39 | 7.605 | 24.9 |
| 1967 | 30,005 | 674 | 2.30 | 7.759 | 25.8 |
| 1960 | 30.6\% | 645 | 2.36 | 7.919 | 25. ${ }^{5}$ |
| 1969 | 31.394 | 704 | 2.30 | 4.059 | 25.4 |
| 1970 | 32,425 | 734 | 2.3 | 8.2.6 | 25.5 |





(1) Indiana








Tathe
 $1861-70$

|  |  |  | Pewochtage |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | Pomulation or Jnertage | Mhaderer | Popylacton |


| 1960 | 5.124 |  |  | 1.315 | 25.7 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1961 | 5.238 | 114 | 2.22 | 1.375 | 26.2 |
| 1962 | 5.359 | 121 | 2.11 | 1.422 | 26.5 |
| 1963 | 5.486 | 127 | 2.36 | 1.463 | 26.6 |
| 1964 | 5.616 | 132 | 2.40 | 1.504 | 26.7 |
| 1965 | 5.761 | 143 | 2.54 | 1.541 | 26.7 |


| Total <br> Yatr Pombation |  | Wet mereane In Crowti of Pomalation | reentas Irersang | $\begin{aligned} & \text { Sehool-Age } \\ & \text { Shildren } \end{aligned}$ |  <br>  ponatituor |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1966 | 5.911 | 150 | 2.60 | 1. 28 | 26.7 |
| 1967 | 6,065 | 154 | 2.60 | 2.610 | 26.6 |
| 1968 | 6,227 | 162 | 2.67 | 2.656 | 26.6 |
| 1969 | 6,396 | 169 | 2.72 | 2.700 | 26.6 |
| 1970 | 6,570 | 174 | 2.72 | 1.739 | 26.4 |



## (4) Entutos





 school-age children would conatitute 27.8 of the total profectec population of ech zear, se shom 1 , Trable E.

## Trable

 1961-70


|  |  | Net Increx ${ }^{\text {a }}$ |  |  | Porchatan ot wotal |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Toter | 1 m Grouth or | Pamentuage | Sctool-Age |  |
|  | onulatio | Ponulation | Of Incretate | chatran | populction |
| 1970 | 13,672 | 340 | 2.55 | 3,626 | 26.5 |


(115) Boyerave




 chllaron moule constituth; on werarg, 22.73 of the total


 chat wonstitute the population of wethot ** This phenomenon


 Lor the save resuon.

|  |  |  | Lable |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proyented | Population o | $\begin{aligned} & \text { Fothers } \\ & 194-70 \end{aligned}$ | Shool-A | Chnlerons. |
| Yoar | $\begin{aligned} & \text { Total } \\ & \text { Bopalation } \end{aligned}$ | Het Incroane In Orewth or Pomylation | Parcentan Or Incterage | $\begin{aligned} & \text { School-age } \\ & \text { chliayan } \end{aligned}$ |  |
| 1960 | 9,825 |  |  | 1.964 | 19.9 |
| 196 | 10,026 | 201 | 2.04 | 2,123 | 21.2 |
| 1862 | 10,24 | 188 | 1.87 | 2.220 | 22.2 |
| 1963 | 10,409 | 15 | 3.90 | 2.330 | 22.4 |
| 196 | 10,607 | 198 | 2.90 | 2.402 | 22.6 |
| 2965 | 10, 213 | 206 | 2.94 | 2.519 | 23.3 |
| 1966 | 11,040 | 227 | 2.09 | 2.586 | 23.4 |
| 1967 | 11.258 | 21* | 1.97 | 2.664 | 23.6 |




## VI. Sytatry and Concluaions


#### Abstract

        1960, has been determined for these threa main malay group. Athourl dink on the population of Mydiant and          


[^4]






























school-age children would constitute 25.6 of the projectad population (Tables XXKXI and XX\%XII).

The avertage annual net increase in population is 2.5\% for Indians (Tables XXXV and XXXY). 2.42 for 5kimos (Tables XXXVII and XXXVIII) and a little less than 2 for "others" (Tablos XXXIX and XXX). Due to the large number of single males, or married males without families, that constitute the population of "others", the percentage of net natural growth has been dwarfed to a grest extent, although the actual natural increase (bixths over deaths) is not the lowest of all races. The future school-age children in relation to the projecter total population of each racial group over the projected period (1961-70), in shown below.

Tanle
Averape Percentage of Sehool-Age Children to the Total Population
Racial Group projected Percentage

Indians
Eskinos
Others
M11 racial groups
26.5\% (rables $x \times 4 \times 111$ and $x$ (xxyIy)
27.8\% (Tables XXXXY and XXXXYI)
22.7\% (Tables XXXXVII and RXXXVIII)
25.6 雚

It tay be mentioned in this connection that profections are only quides to action, and they contain an element of uncertainty which cannot be owercome, no matter how abundant the statiatical material mixht be. It is true that better statistics would undoubtedly make better estimates possible, but it is only to bexpented that actual fubure opulation trends would difer, $\mathrm{m}^{t}$ least to a minor degroe, from those estimated in a projection.

The difficulty in obtainins a roliable base population for "otherg" has ben overcome by adoptine an estimate. Therefore,



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 projectant theze projaction have bo be wewed whonevar







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 Ottimt (uevn" Printor and Conptrollur of Stationery.
 Sehool home of Crester lontren, Hureh, 1960.



 1959.
 4ehtivetons I. S. Burweu of Congis. 1951.





 196.

 1050, 51, 52, 53, 54, 55, 56, 57 ind 58, Ottawa, cueen ${ }^{*}$ s Printer and comproller of Statonery.
 Volux 1 - Momilation, outwo tueen* Frintar amp Comprollar of stationery, 1953.

 of culleren into Cande. $1959-60$, Becenter. 1960.
 Sose. 1054, E/Coni. 13/438, Fapary Wo1. VI. 1955.







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     yeaver

[^1]:    3. . Werthoia, The rorty per oent test a uservi de ographto
     Bova. 1554. w2. 71. p. 215.
[^2]:    

[^3]:    Grable XXXII shows the tothl Indiak and tskiro populstion for arctic and Mackenzie Diatricte, while that of "otherg" show for䴖U.T. only. Due to lack of information, the population of "others" living in Arctic Guebec by age and gex groupe for 1960 could not be determined. Hence, in the cate of others population
     study is concerned to project the sohool-age population, a suituble estimated nubber of children relating to "others" (age 6 to 16) for Arctic Guebec has been added to the projections for M.W.T.

[^4]:    
    
    
    

