Service Provision and Consumer Behaviour in a
Frontier area: Northwestern Ontario

(Volume II)

Ivor G. Davies

Doctor of Philosophy
University of Edinburgh
1972
Figure 14
NORTHWESTERN ONTARIO
FUR TRADE 1784-1821

Key
○ NW Co forts
 ● HB Co forts
---- NW Co
--------- routes

Scale
100 mls
(mainly after Voorhis)
Figure 15
NORTHWESTERN ONTARIO
GEOLOGY & MINES

Source: Ontario Dept of Mines;
Figure 17
NORTHWESTERN ONTARIO
POPULATION GROWTH 1901-1966
Figure 3.1

FUNCTIONAL TYPE – ESTABLISHMENT RELATIONSHIPS
Northwestern Ontario
Figure 32

Northwestern Ontario Service Centres

Functional Type - Establishment Relationships

No of Establishments vs No of Functional Types
Figure 3.3

NORTHERN ONTARIO SERVICE CENTRES

Functional Type - Establishment Relationships
LAKEHEAD SYSTEM OF SERVICE CENTRES
FUNCTIONAL TYPE-ESTABLISHMENT RELATIONSHIPS
Figure 34

No of Establishments

No of Functional types
Figure 3.5
Winnipeg System of Service Centres

Functional Type - Establishment Relationships

No of Establishments

No of Functional Types

\[ E = 72.07F + 1.74 \]

Legend:
- FF
- Ken
- D
- SL
- RL
- RR
- VB
- E
- SN
- NF
- B
- Kee
AGGREGATE CONSUMER BEHAVIOUR

Goods

Services

% Home-town Purchases

0 20 40 60 80 100

1 2 3 4 5 6 7 8 9 10 11 12 13

Lakehead System

Figure 3.9
Figure 310
Winnipeg System

% Home-town Purchases

AGGREGATE CONSUMER BEHAVIOUR

Goods

Services
Figure 4.2
RAINY RIVER
LIMITS OF TRUE MEANS

An analysis of items,
Figure 4.3
RAINY RIVER COMPARISON OF MEANS

Array of items

Distance in miles

Most trips
Last trip
Array of items
Figure 44
RAINY RIVER

DISTRIBUTION OF GROCERY DISTANCES
Figure 4.12
RAINY RIVER
TRAVEL FOR DENTIST
Figure 4.13
RAINY RIVER
TRAVEL FOR MEN'S COAT

Fort Frances
Emo
Dawlin
Lomville
Figure 4.14
RAINY RIVER
TRAVEL FOR WATCH
Figure 4.15
RAINY RIVER
TRAVEL FOR FARM MACHINERY
Figure 4.17
RAINY RIVER
TRAVEL FOR MEN'S WORK CLOTHES

Scale
5 mls.
Figure 4.19
RAINY RIVER
TRAVEL FOR BANK
Figure 4.20
RAINY RIVER
TRAVEL FOR DRUGS
Figure 4.23
RAINY RIVER
TRAVEL FOR MEN'S SHOES
Figure 4.24
RAINY RIVER
TRAVEL FOR FAMILY DOCTOR
Figure 4.26
RAINY RIVER
TRAVEL FOR GROCERIES
Figure 4.27
RAINY RIVER
TRAVEL FOR MEAT
Figure 4.29
LAKEHEAD
LIMITS OF TRUE MEANS

Distance (miles)

Array of Items
Figure 4.33b
LAKEMEAD
TRAVEL FOR TELEVISION

Scale
5 mil.
Figure 5.3
NORTH SHORE
USE OF LAKEHEAD HOSPITALS

% use of Lakehead hospitals

Lakehead → 59
Nipigon → 121
Terrace Bay → 171
Marathon → 224
Manitouwadge

(mls.)
Figure 5.4
NORTHWESTERN ONTARIO
ITEM DISTANCE MEANS

- extra-nucleation \( \bar{x} \)
- travel \( \bar{x} \)
- true \( \bar{x} \)
Figure 56
WINNIPEG SYSTEM
ITEM DISTANCE MEANS

- extra-nucleation $x$
- travel $ar{x}$
- true $\overline{x}$
Figure 57
LAKEHEAD SYSTEM
VARIATION IN USE
OF HOME-TOWN,
BY ITEM
Figure 5.8
WINNIPEG SYSTEM
VARIATION IN USE OF HOME-TOWN, BY ITEM
Figure 8.12
NORTHEASTERN ONTARIO
MAJOR SETTLEMENTS: TRAVEL FOR WOMEN'S SHOES

RED
Lake
O Nalmar

cat

SIOUX
LOOKOUT

Dryden

Fort
Frances

Rainy
River

Fort
Arthur

Fort
William

Scale
50 miles

Purchases %

Travel: 10
... 50
. . . 100

catalogues

50

25

75
Figure 5.15
NORTHWESTERN ONTARIO
MAJOR SETTLEMENTS TRAVEL FOR GROCERIES
Figure 5.13
NORTHWESTERN ONTARIO
MINOR SETTLEMENTS TRAVEL FOR GROCERIES

Settlements

Respondent trips

major 5
minor 5

Scale
50 miles