

MICROWAVE SYSTEMS FOR CATV

**MICROWAVE
SYSTEMS
FOR
CATV**

VOLUME 2

COMMUNICATIONS CANADA

1985
LIBRARY ARCHIVOQUE

P
91
C655
M549
1973
v.2

Doc
Industry Canada
JUL 20 1998
THE QUEBEC

FORMAT

A two-volume format has been chosen to facilitate cross reference between volumes.

A two column format has been chosen for greater readability:

When the left column of the text appears shaded it merely supports the text of the right column.

Thus, shaded portions may be omitted on first reading without affecting the intelligibility of the report.

PREFACE

This volume contains support data for Volume 1.

SUMMARY

Support data are of various forms:

- o Tabulations of CATV systems and their signal sources.
- o Tabulations underlying graphical presentations in Volume 1.
- o Further breakdown of statistical data presented in Volume 1.
- o Details of composite maps shown in Volume 1.

VOLUME 2

INDEX

MICROWAVE
SYSTEMS
FOR
CATV

CATV SYSTEMS IN CANADA

Growth - Distribution - Maps 5.01
CATV Systems Analysis - Notation 5.11

CATV SYSTEMS IN PROVINCES

Summary - Index to Subsections 6.01
Maps - Notation 6.02
CATV Systems Index - Notation 6.03
CATV Systems Summary - Notation 6.04
CATV Signal Sources - Notation 6.05
CATV Coverage - Notation 6.06

* BRITISH COLUMBIA 6.1
* ALBERTA 6.2
* SASK. - MANITOBA 6.3
* ONTARIO 6.4
* QUEBEC 6.7
* MARITIMES & OTHER 6.9

TV SIGNAL SOURCES

Summary 7.01
Canadian TV Stations 7.02
U.S. TV Stations 7.09
Microwave Systems 7.20

CATV SURVEY

Summary 8.01
Analysis 8.02
Comments 8.05
Questionnaire 8.21

* NB

In Section 6 pages are not numbered continuously: each Province (or region) starts a new series, as shown.

INDEX

VOLUME 2

TABLES

CATV GROWTH

Canada	5.03
B.C., Ont.	5.04
Que., Other	5.05

CATV SYSTEM SIZE DISTRIBUTION 5.06

CATV SYSTEM ANALYSIS - CANADA 5.12

5000 Subscribers	5.13
1000-5000 Subscribers	5.14
1000 Subscribers	5.15

CATV SYSTEM SUMMARY

Notation & Codes	6.04
------------------	------

POPULATION DISTRIBUTION

Summary Statistics	6.07
--------------------	------

CATV SYSTEMS (CRTC)

B.C.	6.12
Alta.	6.21
Sask. & Man.	6.31
Ont.	6.45, 6.48
Que.	6.72, 6.73
Maritimes	6.92

CATV SYSTEMS SUMMARY

B.C.	6.12, 6.13
Alta.	6.22
Sask. & Man.	6.32
Ont.	6.47 - 6.49
Que.	6.74 - 6.77
Maritimes & Other	6.93

POPULATION CENTRES

B.C.	6.17, 6.18
Alta.	6.24, 6.25
Sask. & Man.	6.34, 6.35
Ont.	6.56 - 6.60
Que.	6.82 - 6.89
Maritimes	6.95 - 6.99

TV STATIONS

Canada	7.02 - 7.08
U.S.	7.09 - 7.19

MICROWAVE SYSTEMS

	7.20, 7.21
--	------------

CATV SURVEY

Statistics	8.02
Analysis of Replies	8.04
Index of Comments	8.05, 8.06

I N D E X

VOLUME 2

FIGURES, CHARTS

CATV SYSTEM GROWTH	5.02
TV SIGNAL SOURCES	
B.C.	6.15, 6.16
Alta.	6.23
Sask. & Man.	6.33
Ont. - US Stations	6.50 - 6.52
Cdn Stations	6.53 - 6.55
Que.	6.78 - 6.81
Maritimes	6.94

MAPS

CATV SYSTEMS - CANADA	5.07
TV COVERAGE CBC - CANADA	5.08
TV COVERAGE CTV - CANADA	5.09
MAJOR COMMUNITY SYSTEMS - CANADA	5.10

CATV SYSTEMS

British Columbia	6.10
Metro Vancouver	6.11
Alberta	6.20
Saskatchewan & Manitoba	6.30
Ontario	6.40, 6.41
Metro Hamilton	6.42
Metro Ottawa	6.43
Metro Toronto	6.44
Quebec	6.70
Metro Montreal	6.71
Maritimes	6.90
Metro Halifax	6.91



This chart, appearing in Volume 1 is repeated here for convenience.

Data source are system codes for all Canadian systems which appear in Section 6.

Where such estimates are unavailable, the actual numbers of subscribers is used as criterion.

This is shown numerically and as percentage distribution.

The categories were chosen with a view to obtaining a reasonable balance of numbers of systems in each category.

For similar reasons, categories for geographical distribution have been chosen as B.C., Ontario, Quebec and Other Provinces.

More detailed maps for each province or region are given in Section 6.

Growth

The chart showing the growth of CATV systems, presented on the next page, is based on data tabulated on the following pages (5.03-5.05).

Number of subscribers estimated for 1976 is taken as the criterion for size.

Distribution

Distribution by location and size for all systems is shown in the table on page 5.06.

This tabulation was used to set the limits for the simpler size categories used throughout this report.

- Large systems $>$ 5000 subscribers
- Medium systems 1000-5000 subscribers
- Small systems $<$ 1000 subscribers.

Maps

For the sake of clarity, the elements of composite overview maps presented in Volume 1 are here shown separately:

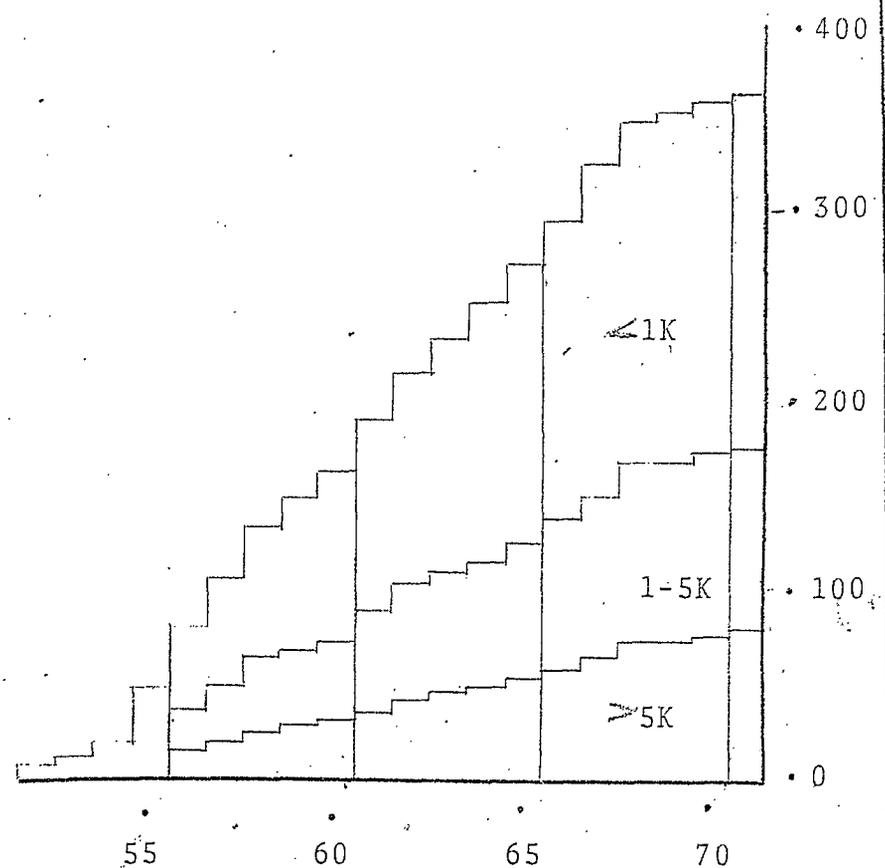
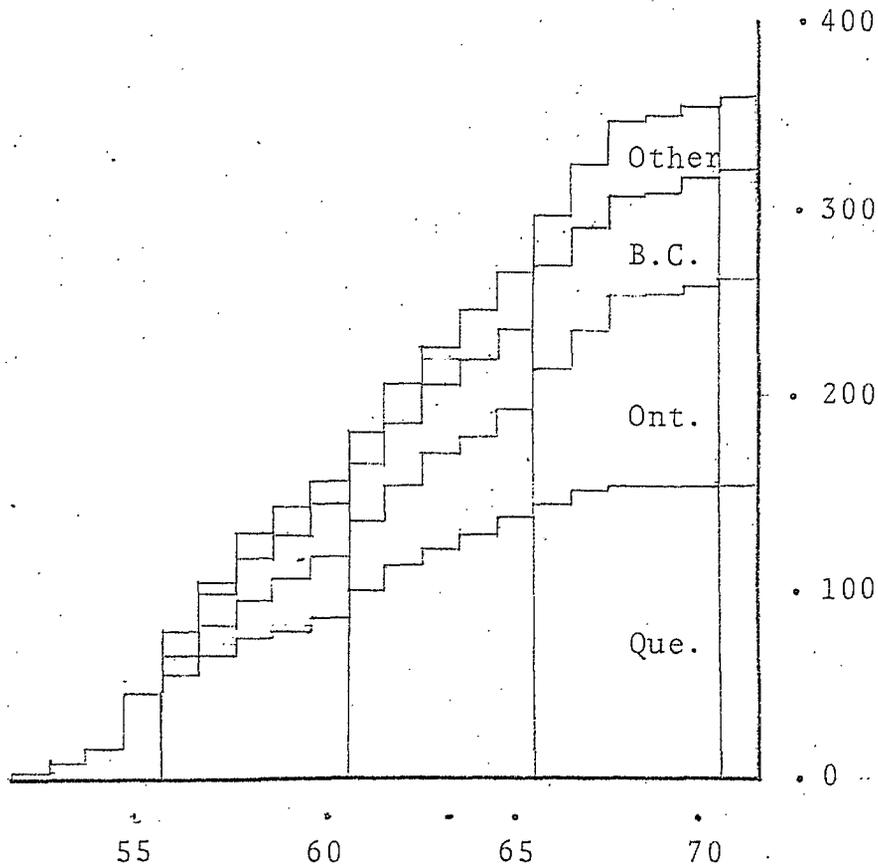
- o CATV systems
- o TV coverage CBC
- o TV coverage Other
- o Major operational communications systems



CATV SYSTEMS

GROWTH PATTERN

1.03
5.02



Distribution by Province

Distribution by System Size

Source: ASDA/TVF

NOTE: The system size is taken as the size estimated for 1976, regardless of initial size.



DISTRIBUTION OF (POTENTIAL) SIZE																								
00	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	total	size	total	
	1				1		1						1			1	2				7	A	50 k	
	1						1		1	1	1			1	1	1	4			1	13	B	25	
	1	1		1	2	2	1	1	2	1	4			2	3	2	1		1	1	26	C	10	
				3	2	2	2	1	1	2	3	2	3	2	2	2	3		1		31	D	5	
		2	2	1	2	2	5		1	2	2	4	1		2	2	7			35	E	2.5		
			2	7	9	5	3	2	2	9	3	2	1	4	4	4	1		3		61	F	1.0	
				7	3	3	5	2	3	2	1	1	1	1	3	1	1				34	G	0.50	
	1	1	1	4	1	7	3	3	2	1	1	3	5	1	1	2			1		38	H	0.25	
				1	6	3	3	1	1	2	1	5	2	1	2	3	1				32	I	0.10	
			1	1		1	1	1		3		1	3	2	1	2	1			1	19	J		
	4	4	6	25	26	25	25	11	13	23	16	18	17	14	19	20	21		6	3	296	total		
11				5	5	2	1	3	2	2	9	3	2	5	13	5			1	3	2	74	no data	
11	4	4	6	30	31	27	26	14	15	25	25	21	19	19	32	25	21	1	9	5	370	TOTAL		

CUMULATIVE TOTALS																							
00	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	total		
	3	4	4	8	13	17	22	24	28	32	40	42	46	51	57	63	73	73	75	77	-	> 5K	
		2	6	14	25	32	40	42	45	56	61	67	69	73	79	85	93	93	96	96	-	1-5K	
	1	2	4	17	27	41	53	60	66	74	77	87	98	103	110	118	121	121	122	123	-	< 1K	
				5	10	12	13	16	18	20	29	32	34	39	52	57	57	58	61	63	-	No Data	
11	4	8	14	44	75	102	128	142	157	182	207	228	247	266	298	323	344	345	354	359	370	CANADA	
3		1	3	5	7	14	23	25	26	31	35	36	42	46	51	55	56	56	58	58	61	B.C.	
5	2	3	3	7	11	17	23	28	34	36	43	51	53	58	76	86	101	102	106	108	113	ONT.	
3	2	4	8	30	52	63	71	77	83	99	111	120	127	135	143	150	152	152	153	154	157	QUE.	
				2	5	8	11	12	14	16	18	21	25	27	28	32	35	35	37	39	39	OTHER	



BRITISH COLUMBIA

00	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	total	size	total	
							1														1	A	50 k	
									1												1	B	25	
							1	1			1			1	1						5	C	10	16
				1	2	1							1	1	1	1	1				9	D	5	
		1	1			1	1									1					5	E	2.5	14
			1	1		1	2			1			1						2		9	F	1.0	
						1	1			2	1		1		1						7	G	0.50	
						2	1	1					1								4	H	0.25	22
							1			1			2			1					5	I	0.10	
										1											5	J		
		1	2	2	2	7	9	2	1	4	2	1	6	3	3	4	1	0	2	0	52	total		
3										1	2			1	2						9	no data		
3		1	2	2	2	7	9	2	1	5	4	1	6	4	5	4	1	0	2	0	61	TOTAL		

ONTARIO

00	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	total	size	total	
													1			1	2				4	A	50 k	
	1						1				1			1	1	1					7	B	25	
	1	1			1	2			2	1	2			1	2	2	1		1	1	18	C	10	42
						1	2	1	1		2	1		1	1		2				13	D	5	
				1	1	1			1	1		3			2	1	6				17	E	2.5	30
				1	2			1		1	1	1	1	1	3	1	1		1		14	F	1.0	
				1		1	2	2	1						1		1				9	G	0.50	
				1			1	1				2			1						6	H	0.25	20
												1					1	1			3	I	0.10	
						1										1					2	J		
	2	1	0	4	4	6	5	5	6	2	6	8	2	4	11	8	15	0	3	1	93	total		
5							1				1			1	7	2		1	1	1	20	no data		
5	2	1	0	4	4	6	6	5	6	2	7	8	2	5	18	10	15	1	4	2	113	TOTAL		



P1006 / D.O.C.
source: ASDA / TVF

CATV GROWTH

5.04

QUEBEC																								
00	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	total	size	total	
	1				1																2	A	50 k	
										1											1	B	25	12
				1	1						1										3	C	10	
				2						1	1	1				1					6	D	5	
		1	1		1		3			1	2						1				10	E	2.5	40
			1	3	6	4			2	7	1	1		2	1	2					30	F	1.0	
				6	3		2		2					1	1						15	G	0.50	
	1	1	1	3	1	4	1	1		1	1	1	2	1		1					20	H	0.25	
				1	5	1	2	1		2	1	3	1		2	1					20	I	0.10	65
			1	1				1		2		1	1	1		1				1	10	J		
	2	2	4	17	18	9	8	3	4	15	6	6	5	5	5	5	2			1	117	total		
3				5	4	2		3	2	1	6	3	2	3	3	2			1		40	no data		
3	2	2	4	22	22	11	8	6	6	16	12	9	7	8	8	7	2			1	157	TOTAL		

OTHER																								
00	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	total	size	total	
																	3				0	A	50 k	
																					4	B	25	7
										1	1		1								0	C	10	
										1	1	1	1								3	D	5	
				2	1		1	1		1	1					1					3	E	2.5	11
						1						1				1					8	F	1.0	
						2	1		1				2			1			1		3	G	0.50	
					1				1					1							8	H	0.25	
									1					1							3	I	0.10	16
											1		1								2	J		
				2	2	3	3	1	2	2	2	3	4	2	0	3	3	0	1	1	34	total		
					1										1	1			1	1	5	no data		
				2	3	3	3	1	2	2	2	3	4	2	1	4	3	0	2	2	39	TOTAL		



P 1006 / D.O.C.
source: ASDA / TVF

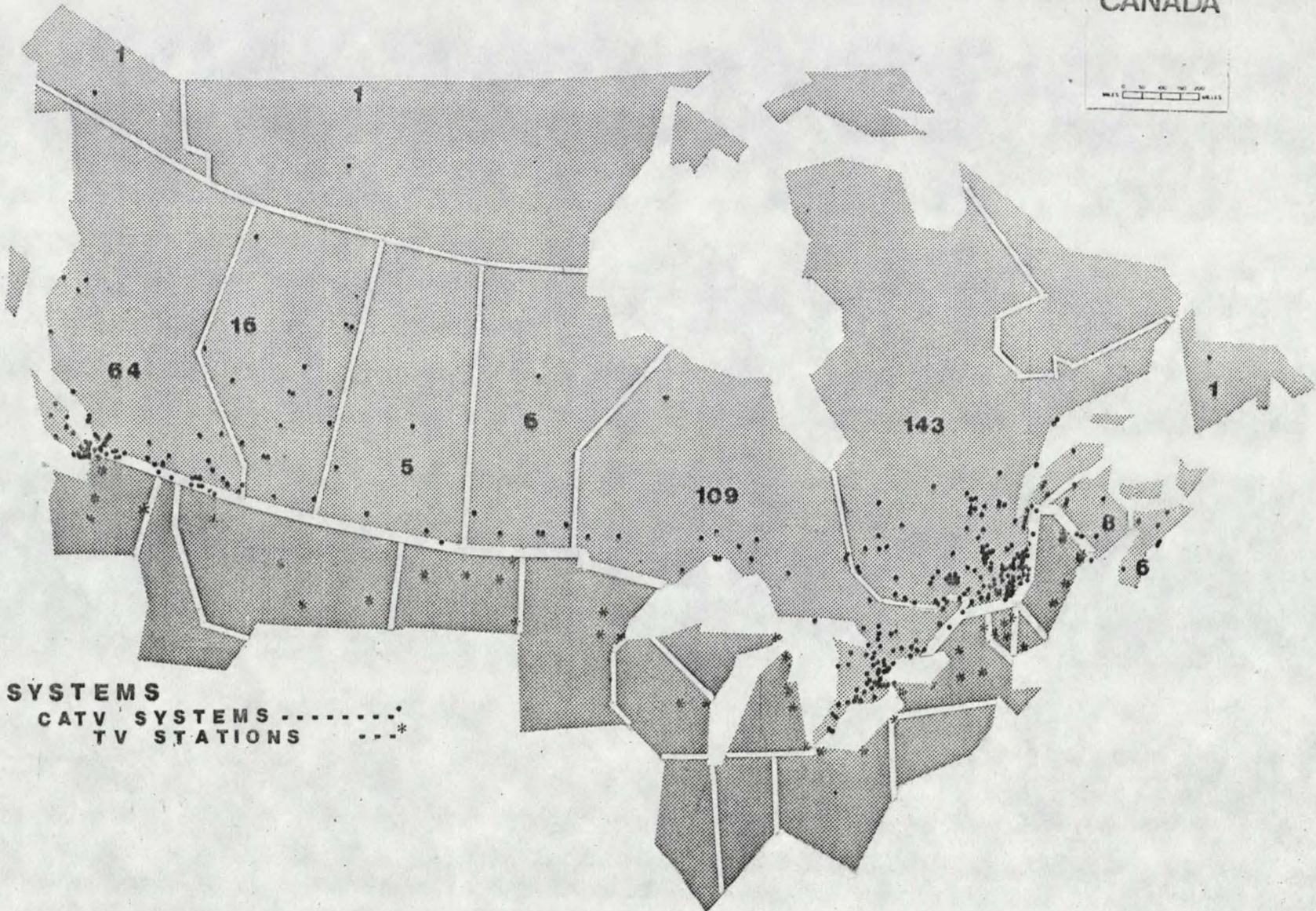
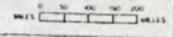
CATV GROWTH

5.05

CATV INDUSTRY - DISTRIBUTION OF SYSTEM SIZE (POTENTIAL)										CANADA	
potential		Brit. Col.		Ontario		Quebec		Other		Total	
subscrib.	Code	Systems %		Systems %		Systems %		Systems %		Systems %	
50,000	A	1	1.9	4	4.3	2	1.7	0	0.0	7	2.4
25,000	B	1	1.9	7	7.5	1	.9	4	11.8	13	4.4
10,000	C	5	9.6	18	19.4	3	2.6	0	0.0	26	8.8
5,000	D	9	17.3	13	14.0	6	5.1	3	8.8	31	10.5
2,500	E	5	9.6	17	18.3	10	8.5	3	8.8	35	11.8
1,000	F	9	17.3	14	15.1	30	25.6	8	23.5	61	20.6
-500	G	7	13.5	9	9.7	15	12.9	3	8.8	34	11.5
250	H	4	7.7	6	6.4	20	17.1	8	23.6	38	12.8
100	I	6	11.6	3	3.2	20	17.1	3	8.8	32	10.8
	J	5	9.6	2	2.1	10	8.5	2	5.9	19	6.4
Total Analyzed		52	17.6	93	31.4	117	39.5	34	11.5	296	100.0
A - D	●	16	30.8	42	45.1	12	10.3	7	20.6	77	26.1
E - F	○	14	26.9	31	33.4	40	34.2	11	32.4	96	32.4
G - J	.	22	42.3	20	21.5	65	55.5	16	47.0	123	41.5
No data		9	14.8	20	17.7	40	25.4	5	12.8	74	20.0
Total		61	16.5	113	30.5	157	42.5	39	10.5	370	100.0



CANADA



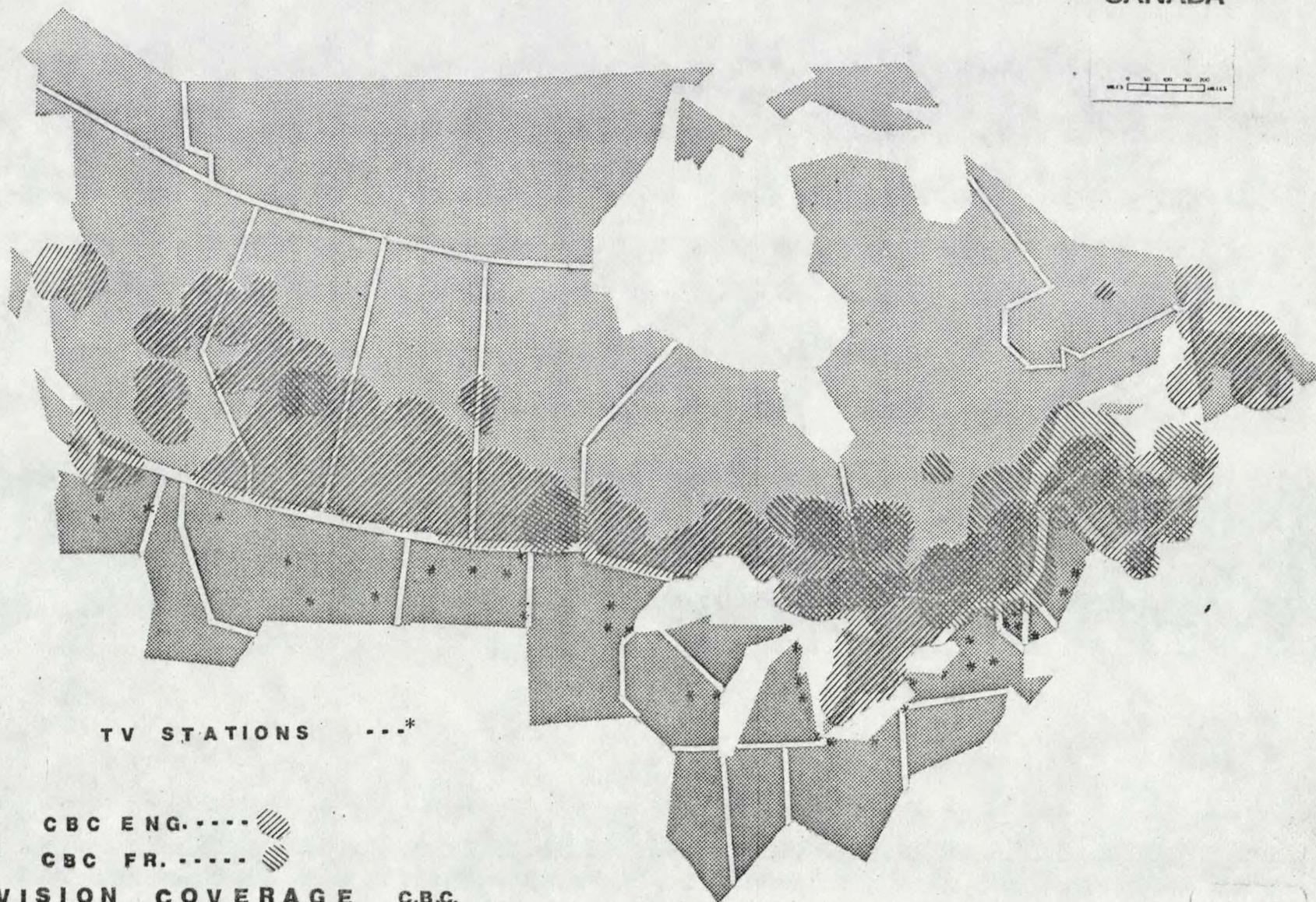
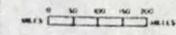
CATV SYSTEMS
CATV SYSTEMS
TV STATIONS*

SOURCE: ASDA/CRTC

1.08
5.07



CANADA



TV STATIONS *--*

CBC ENG. *--*

CBC FR. *--*

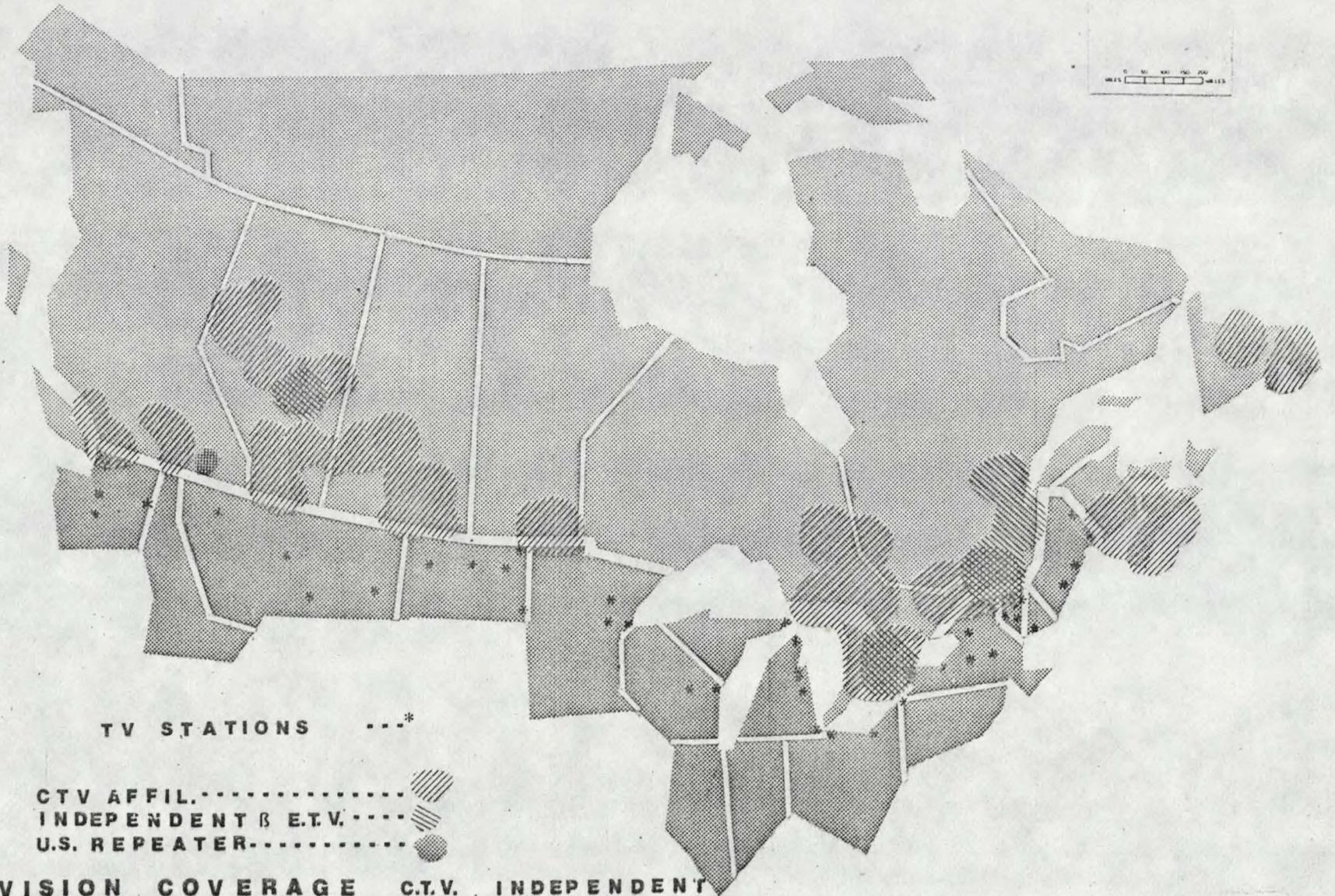
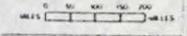
TELEVISION COVERAGE C.B.C.

SOURCE: ASDA/CRTC

1.09
5.08



CANADA



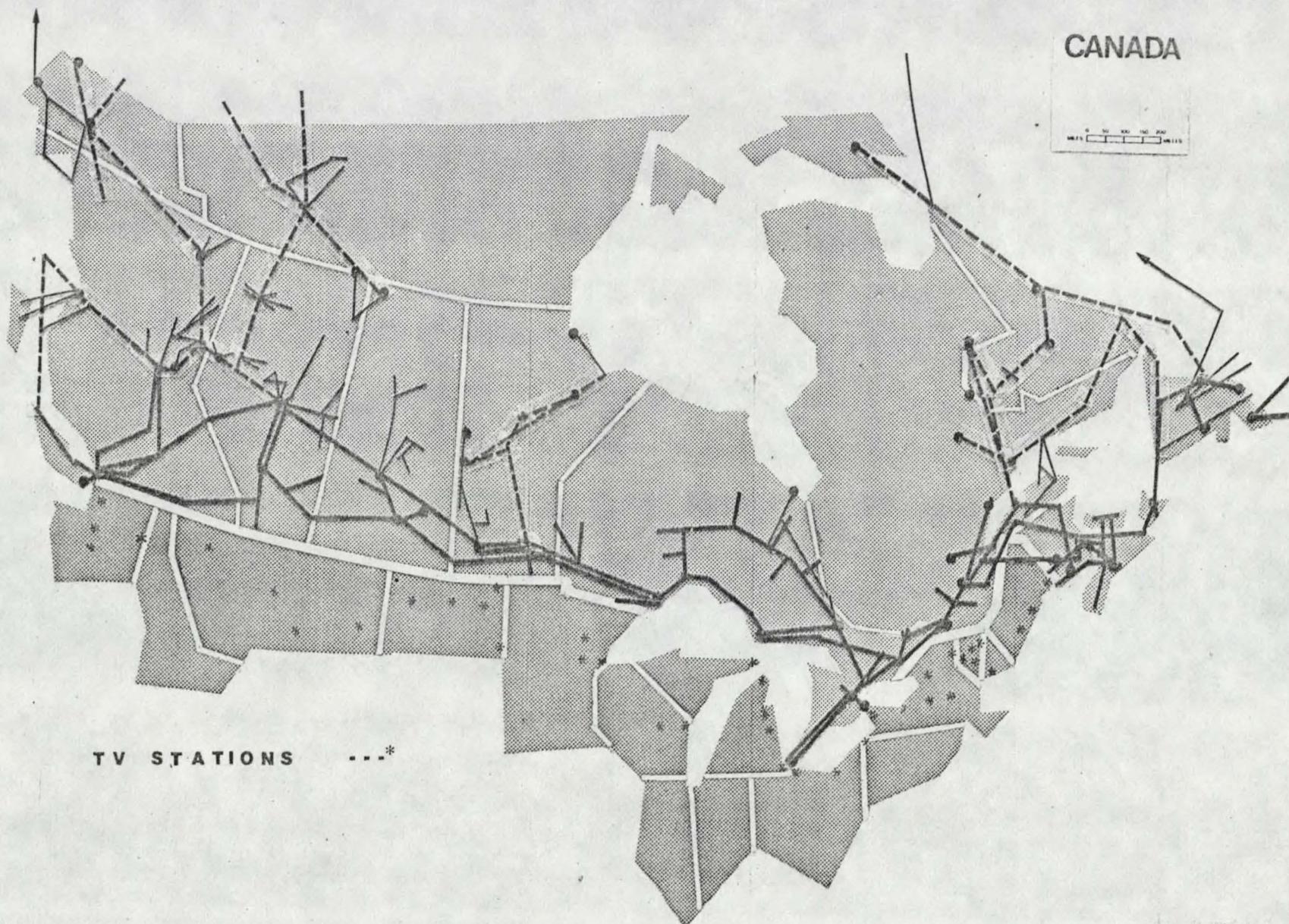
TV STATIONS ---*

CTV AFFIL.
INDEPENDENT & E.T.V. ---
U.S. REPEATER

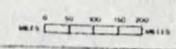
TELEVISION COVERAGE C.T.V. INDEPENDENT

SOURCE: ASDA/CRTC

1.10
5.09



CANADA



TV STATIONS ...*

MAJOR OPERATIONAL SYSTEMS
SOURCE: ASDA/CRTC / DOC

1.11
5.10



Only the first of these tables appears in Volume 1 and is here repeated for convenience.

This analysis is based on data presented in Section 6, specifically:

- o CATV Systems Summaries
- o CATV Signal Origin Matrix.

Some CATV systems carry three or more channels, but do not carry the complete network.

CBC is carried by virtually all CATV systems.

Time and weather are not considered as L.O. programs.

Major parameters of CATV systems, with particular emphasis on signal sources, are presented in the following tables:

- o All systems
- o Systems > 5000 subscribers
- o Systems 1000-5000 subscribers
- o Systems < 1000 subscribers.

Notation

- o U.S. Origin, Min. 1 Channel
Denotes systems carrying at least one U.S. signal, regardless of network.
- o U.S. Origin, 3 Network
All three major U.S. networks (ABC, CBS, NBC) are carried.
- o Canadian Origin, CTV
CTV is carried.
- o Canadian Origin, Local Origination
Denotes capability for L.O. programs.
- o Averages
The average number of U.S. channels, Canadian channels, and channel capacity for CATV systems in the stated category are given.
Average monthly rates are quoted.
- o The remainder of table headings are considered self-explanatory.



1.15
5.12

CATV SYSTEMS ANALYSIS

ALL SYSTEMS

REGION	CATV total	POPULATION k (x1000) 1971	SUBSCRIBERS			US. ORIGIN				CDN. ORIGIN				AVERAGES			
			EST'D 1976k	ACTUAL 1971k	INCR %	MINI #	1 CH %	3 N'WK #	3 N'WK %	CTV #	LOCAL %	CTV #	LOCAL %	US ch	CDN ch	CH cap	MO rate
Canada	296	21568.3	2214.8	1252.3	77	224	76	122	41	184	62	57	19	3.3	3.8	10.1	4.40
B. Col.	52	2184.6	397.3	300.8	31.4	47	90	34	65	35	68	10	19	3.1	2.3	9.7	5.19
Ont.	93	7703.1	1092.4	572.1	91.0	87	94	56	60	74	80	32	35	3.4	5.4	12.0	4.36
Que.	117	6027.8	500.8	282.5	77.5	69	59	29	25	51	44	10	9	1.3	4.1	8.7	3.90
Other	34	5652.8	224.3	96.9	132.	21	62	3	9	24	71	5	15	2.0	2.6	8.6	5.05
Alberta	12	1627.9	105.3	33.5		5	42	0	0	10		2	17	0.8	2.5	9.8	
Sask.	4	926.2	8.7	6.6		2	50	0	0	3		1	25	1.3	3.0	8.5	4.73
Man.	$\frac{6}{22}$	988.2	$\frac{92.5}{206.5}$	$\frac{44.9}{85.0}$		$\frac{5}{12}$	$\frac{83}{55}$	$\frac{2}{2}$	$\frac{33}{9}$	$\frac{5}{18}$		$\frac{1}{4}$	$\frac{17}{18}$	$\frac{1.8}{1.2}$	$\frac{2.4}{}$	$\frac{8.5}{9.3}$	
N.B.	9	634.6	14.0	9.5		9	100	1	11	1		1	1	1.7	3.1	7.5	
N.S.	$\frac{1}{10}$	789.0	$\frac{2.1}{16.0}$	$\frac{1.0}{10.5}$		$\frac{0}{}$	$\frac{0}{}$	$\frac{0}{}$	$\frac{0}{}$	$\frac{1}{2}$		$\frac{0}{1}$		$\frac{0}{1.7}$	$\frac{4.0}{}$	$\frac{8.0}{7.8}$	4.75
Nfld.	1	522.1	.3	.3											2.0	2.0	
Yukon	$\frac{1}{2}$	18.4	$\frac{1.5}{1.8}$	$\frac{1.1}{1.4}$													9.25

Data for CATV systems of three size categories are shown in tables 5.13-5.15.



P1006 / D.O.C.

source: ASDA / TVF

CATV SYSTEMS ANALYSIS

Systems:

> 5000

REGION	CATV total	POPULATION k(x1000) 1971	SUBSCRIBERS			US. ORIGIN				CDN. ORIGIN				AVERAGES			
			EST'D 1976k	ACTUAL 1971k	INCR %	MIN #	1 CH %	3 N'WK #	94 %	CTV #	LOCAL %	US ch	CDN ch	CH cap	MO rate		
Canada	77	21568.3	1932.5	1075.4	79.7	76	98	57	74	71	92	31	40	3.8	4.5	12.9	4.69
B. Col.	16	2184.6	353.5	271.3	30.3	16	100	15	94	15	94	5	31	4.6	2.7	12.0	4.98
Ontario	42	7703.1	993.7	513.4	93.6	42	100	34	81	38	90	20	48	4.2	5.3	13.7	4.45
Quebec	12	6027.8	392.8	214.7	83.0	12	100	6	50	12	100	3	25	2.4	5.8	11.2	4.75
Other	7	5652.8	192.5	76.0	153.3	6	85	2	28	6	85	3	42	2.8	3.0	11.0	5.38
Alberta	4	1627.9	96.5	28.7		3	75	0	0	3		2		2.0	3.0	14.7	
Sask.	0	926.2	0.0	0.0		0		0		0		0		0.0	0.0	0.0	5.38
Man.	$\frac{2}{6}$	988.2	$\frac{90.0}{186.5}$	$\frac{43.0}{71.7}$		2		2		2		$\frac{0}{2}$		$\frac{4.0}{2.8}$	$\frac{3.0}{3.0}$	12.0	
N.B.	1	634.6	6.0	4.3		1		0		1		1		3.0	3.0	9.0	
N.S.	$\frac{0}{1}$	789.0	$\frac{0.0}{6.0}$	$\frac{0.0}{4.3}$		0		0		0		$\frac{0}{1}$		$\frac{0.0}{3.0}$	$\frac{0.0}{3.0}$	$\frac{0.0}{0.0}$	
Nfld.	0	522.1				0		0		0		0		0.0	0.0	0.0	
Yukon	$\frac{0}{0}$	18.4	$\frac{0.0}{0.0}$			0		0		0		0		$\frac{0.0}{0.0}$	$\frac{0.0}{0.0}$	$\frac{0.0}{0.0}$	

CATV SYSTEMS ANALYSIS

Systems: 1000 - 5000

REGION	CATV total	POPULATION (x1000) 1971	SUBSCRIBERS			US. ORIGIN					CDN. ORIGIN				AVERAGES			
			EST'D 1976k	ACTUAL 1971k	INCR %	MINI #	CHS %	N'WK #	CDN. #	LOCAL %	US ch	CDN ch	CH cap	WO rate				
Canada	96	21568.3	230.1	143.6	60.2	75	78	42	44	64	68	18	17.3	3.4	4.2	10.4	4.54	
B. Col.	14	2184.6	35.3	23.4	51.0	14	100	9	64	9	65	4	28	3.4	2.2	11.3	5.20	
Ontario	31	7703.1	88.3	51.8	70.5	28	91	19	62	28	90	9	29	3.4	4.2	11.5	4.44	
Quebec	40	6027.8	82.3	50.3	63.6	26	65	14	35	20	50	3	8	1.6	4.6	9.4	4.19	
Other	11	5652.8	24.2	18.1	33.7	7	64	0	0	7	64	2	46	1.7	2.6	7.4	5.36	
Alberta	2	1627.9	6.5	4.1		1		0		1		0		2.0	1.0	10.0		
Sask.	3	926.2	8.3	6.5		2		0		3		1		2.5	3.3	8.5	4.80	
Man.	$\frac{1}{6}$	988.2	$\frac{1.6}{16.4}$	$\frac{1.1}{11.7}$		$\frac{1}{4}$		0		$\frac{1}{5}$		$\frac{1}{2}$		$\frac{1.0}{2.0}$	$\frac{1.0}{2.1}$	<u>5.0</u>		
N.B.	3	634.6	5.8	4.3		3		0		1		0		1.3	3.0	4.5		
N.S.	$\frac{1}{4}$	789.0	$\frac{2.0}{7.8}$	$\frac{1.0}{5.3}$		$\frac{0}{3}$		0		$\frac{1}{2}$		$\frac{0}{0}$		$\frac{0.0}{1.3}$	$\frac{4.0}{3.1}$	<u>8.0</u>	4.75	
Nfld.	0	522.1	0.0	0.0		0		0		0				0.0	0.0	0.0		
Yukon	$\frac{1}{1}$	18.4	$\frac{1.5}{1.5}$	$\frac{1.1}{1.1}$		0		0		0				0.0	0.0		15.00	



CATV SYSTEMS ANALYSIS

Systems:

< 1000

REGION	CATV total	POPULATION k(x1000) 1971	SUBSCRIBERS			US. ORIGIN				CDN. ORIGIN				AVERAGES			
			EST'D 1976k	ACTUAL 1971k	INCR %	MINI #	1 CH %	3 N'WK #	%	CTV #	%	LOCAL #	%	US ch	CDN ch	CH cap	MO rate
Canada	123	21568.3	50.7	32.1	57.9	72	58	22	18.1	49	40	8	7	2.4	2.9	7.8	3.55
B. Col.	22	2184.6	8.5	6.1	39.4	17	78	10	45	11	50	1	5	2.5	1.3	6.9	5.39
Ontario	20	7703.1	10.4	6.9	50.7	17	85	3	15	8	40	3	15	1.8	4.2	9.0	4.02
Quebec	65	6027.8	25.7	17.5	46.8	31	48	9	14	19	29	4	6	0.9	3.6	7.6	3.54
Other	16	5652.8	6.1	1.6	10.0	7	44	0	0	11	69	0	0	1.5	2.6	8.1	4.28
Alberta	6	1627.9	2.3	0.7		0		0		6		0		0.0	2.6	6.8	
Sask.	1	926.2	0.4	0.1		0		0				0		0.0	1.0		4.26
Man.	$\frac{3}{10}$	988.2	$\frac{0.9}{3.6}$	$\frac{0.8}{1.6}$		$\frac{2}{2}$		$\frac{0}{0}$		$\frac{2}{8}$		$\frac{0}{0}$		$\frac{1.0}{1.0}$	$\frac{2.3}{2.5}$	$\frac{8.5}{8.5}$	
N.B.	5	634.6	2.5			5		0		2		0		1.8	3.2	12.0	
N.S.	$\frac{0}{5}$	789.0	$\frac{0.0}{2.5}$	$\frac{0.0}{0.0}$		$\frac{0}{5}$		$\frac{0}{0}$		$\frac{2}{2}$		$\frac{0}{0}$		$\frac{0.0}{1.8}$	$\frac{3.2}{3.2}$	$\frac{0.0}{12.0}$	4.25
Nfld.	1	522.1				0		0		1		0		0.0	2.0	2.0	
Yukon	$\frac{0}{1}$	18.4	$\frac{0.0}{0.0}$	$\frac{0.0}{0.0}$		0		0		1		$\frac{0}{0}$		0.0	$\frac{2.0}{2.0}$	$\frac{0.0}{2.0}$	3.50



Some of these reasons are:

- o Topography.
- o Language.
- o Availability of U.S. signal sources.
- o Possible emergence of Provincial CATV systems.

This serves as reference for the system configuration outlines presented in Volume 1.

Source: CRTC.

As of 31 March 72 (Source CRTC).

Based on data in TV Facts 71-72.

A special matrix presentation is used. 1971 Census (Statistics Canada) Codes refer to CRTC and TVF Listings herein contained.

Each subsection is described on a separate page.

For a number of reasons CATV systems may usefully be considered on a regional basis.

In this section the following aspects of CATV systems, for each Province or Region, are considered in the following sequence:

- o Map of Province/Region indicating location of CATV systems, and TV signal sources in the U.S. ①
- o Map of Metropolitan areas in region. ②
- o List of Licensed Systems. ③
- o CATV Systems Summaries. ④
- o CATV Signal Sources in Canada and U.S. ⑤
- o Population Centres exceeding 1000 inhabitants, with corresponding CATV system references (Codes). ⑥

Further details of the above subsections follow.

Canadian and U.S. signal sources are listed in Section 7 in this Volume.



For ease of identification of CATV systems the corresponding blank maps of Volume 1 should be consulted; these schematic presentation also indicate the approximate reach of TV stations in the U.S.

Usually metropolitan areas.
More than 5000 subscribers.
1000-5000 subscribers.
Less than 1000 subscribers.
CATV systems appearing only on CRTC list.

Source: CRTC Annual Report
1971/72

Each of the maps shows the following:

- Location of CATV Systems. ①
- Location of TV Signal Sources in the U.S.

Notation

- * More than one CATV system.
- * Large CATV system.
- * Medium CATV system.
- * Small CATV system.
- CATV systems not listed or analyzed.

Metropolitan areas for each province or region are shown separately. ②



The CRTC publication "CATV Systems in Canada" gives location, rates and authorized channels for these systems.

Data are derived from TV Factbook 71-72; this source has been chosen as the most concentrated and comprehensive assembly of relevant information.

Data useful for analysis have been extracted, collated and tabulated.

System code, size code (dots) and network code are also used in other tabulations elsewhere.

Size code and network code are repeated for convenience on fold-out of "CATV Signal Sources" in the last subsection (Maritime Provinces).

Index of Systems (CRTC)

Serves as index of Licensed Systems, as of 31 March 1972.

③

CATV Systems Summary

Serves as basis for the bulk of CATV system analysis and statistics presented in Volume 1.

④

While this information must not be regarded as official, it is deemed sufficiently accurate to serve as basis for summary analysis.

Notation

Symbols and abbreviations used in this tabulation are given in full on page 6.04.

Notation is summarized for convenience on fold-out in the last subsection (MARITIMES).



1	2	3	4	5	6	7	8	9	10	11	12	13
code	location	subscribers access pot'lact'l	rates fee mo	plant miles	equ't mfr	US netw'k A C N I E	CDN net B F T I E	tot	local	cap	fm	z

1 Code: nn X Y Z yy

nn index number
 X actual subscribers
 Y potential " See
 Z accessible " 13
 yy year started
 (00 if unknown)

2 Location:
 as shown
 etc: also at location(s)
 not indicated

3 Subscribers:
 actual: in 1971
 potential: est'd for 1976
 accessible: with existing plant

4 Rates:
 fee: installation fee
 mo: monthly fee

5 Plant:
 miles: of cable
 * planned extension

6 Equipment:

A AMECO
 B BENCO
 C CASCADE
 D DELTA
 J JERROLD
 M MESA
 W WATKINS
 V VIKOA
 Composite

7 Network

US Cdn
 A ABC CBC B
 C CBS CBC Fr. F
 N NBC CTV T
 I Independent I
 E Education E

9 Total:
 Total channels in use

10 Local
 L local origination
 T time
 W weather

11 Capacity
 Channel Capacity

12 FM
 Number indicates FM
 stations carried,
 when known, F when
 not known

13 CATV System Size

A	50000	S
B	25000	U
C	10000	B
D	5000	S
E	2500	C
F	1000	R
G	500	I
H	250	B
I	100	E
J		R
O	No data	S



Canadian and U.S. sources are shown on a single table, except for Ontario where two separate sets of tables are given.

For explanation of system codes refer to 6.04 or last subsection (Maritimes) fold-out.

For explanation of network codes refer to 6.04 or last subsection (Maritimes) fold-out.

In using effective distance rather than actual distance an attempt is made to allow for transmitter power and terrain factor. Transmission directivity is ignored.

The criterion used for the range of marginal reception is $(2.5 B-A)$ where A is transmitter A contour, B is transmitter B contour average contours are used; the above formula compensates for close spacing of A and B contours by a reduction of effective range.

The sources of TV signals previously listed in CATV SYSTEMS SUMMARIES (6.03) are identified in these tables.

The top of the table shows the system code and size (dot on top grey border).

The right of the table shows network (grey border), station call sign, channel number, location (city) and state (U.S.) or province (Canadian).

The resulting matrix indicates in addition the effective distance of TV sources from the CATV system (dot size) and/or means of reception, per the code below.

- Far sources (beyond off-air pick-up).
- Distant sources (marginal off-air pick-up).
- Near sources (within B contours of source).
- ★ Microwave feed.
- ⊙ Microwave feed planned.

Further data on TV signal sources are given in Section 7.



This information is based on 1971 Census figures.

Assuming 3.5 inhabitants per household and 70% saturation, a population in excess of 5000 is needed for a medium sized CATV system (1000-2500 subscribers) as defined in this report.

Item ④ on page 6.01.

Item ③ on page 6.01.

The purpose of this section is to investigate how many of the population centres are served by CATV systems.

All population centres in excess of 1000 inhabitants are listed.

Notation

Population size:

1000-2500

○ 2500-5000

○ 5000-10000

● > 10000

CATV system code:

The first part of the code refers to systems per TVF index.

The second part of the code refers to systems per CRTC index.

* Asterisks denote metropolitan areas.

The distribution of population centres in the various provinces is summarized in the table following:

POPULATION DISTRIBUTION

Region	Pop'n		> 10K		5-10K		2.5-5K		1-2.5K		Other				
	K(x 1000)	#	K	%	#	K	%	#	K	%	#	K	%		
Canada	21568.3	210	11117.4	52	153	1145.2	5		1160.3	5		698.3	3	7447.1	35
B.C.	2184.6	18	799.2	37	7	53.2	2	19	368.0	17	32	46.2	2	918.0	42
Ont.	7703.1	65	4023.3	52	43	359.1	5	49	171.7	2	88	161.5	2	2987.5	39
Que.	6027.8	85	3795.2	63	59	419.8	7	91	332.9	6	137	209.8	3	1270.1	21
Other	5652.8	42	2499.7	44	45	313.1	6	78	287.7	5	147	280.8	5	2271.5	40
Alta.	1627.9	7	961.8	59	6	37.9	2	28	95.3	6	44	64.4	4	468.5	29
Sask.	926.2	7	367.8	40	9	70.9	8	4	32.1	3	12	38.6	4	416.8	45
Man.	988.2	10	537.2	54	5	38.8	4	8	25.9	3	15	24.6	2	361.7	37
N.B.	634.6	7	212.0	33	5	34.4	5	11	42.2	7	43	70.2	11	275.8	43
P.E.I.	111.6	1	19.1	17	1	9.4	8	1	3.8	3	6	9.1	8	70.2	63
N.S.	789.0	7	276.2	35	9	62.3	8	10	34.7	4	15	22.0	3	393.8	50
Nfld.	522.1	2	114.4	22	9	53.3	11	15	51.0	10	33	47.1	9	256.3	49
Yukon	18.4	1	11.2	61	-	-	-	-	-	-	-	-	-	7.2	39
NWT	34.8	-	-	-	1	6.1	18	1	2.7	8	2	4.8	14	21.2	39

CATV SYSTEMS

British Columbia

and their TV signal sources in US



source ASDA



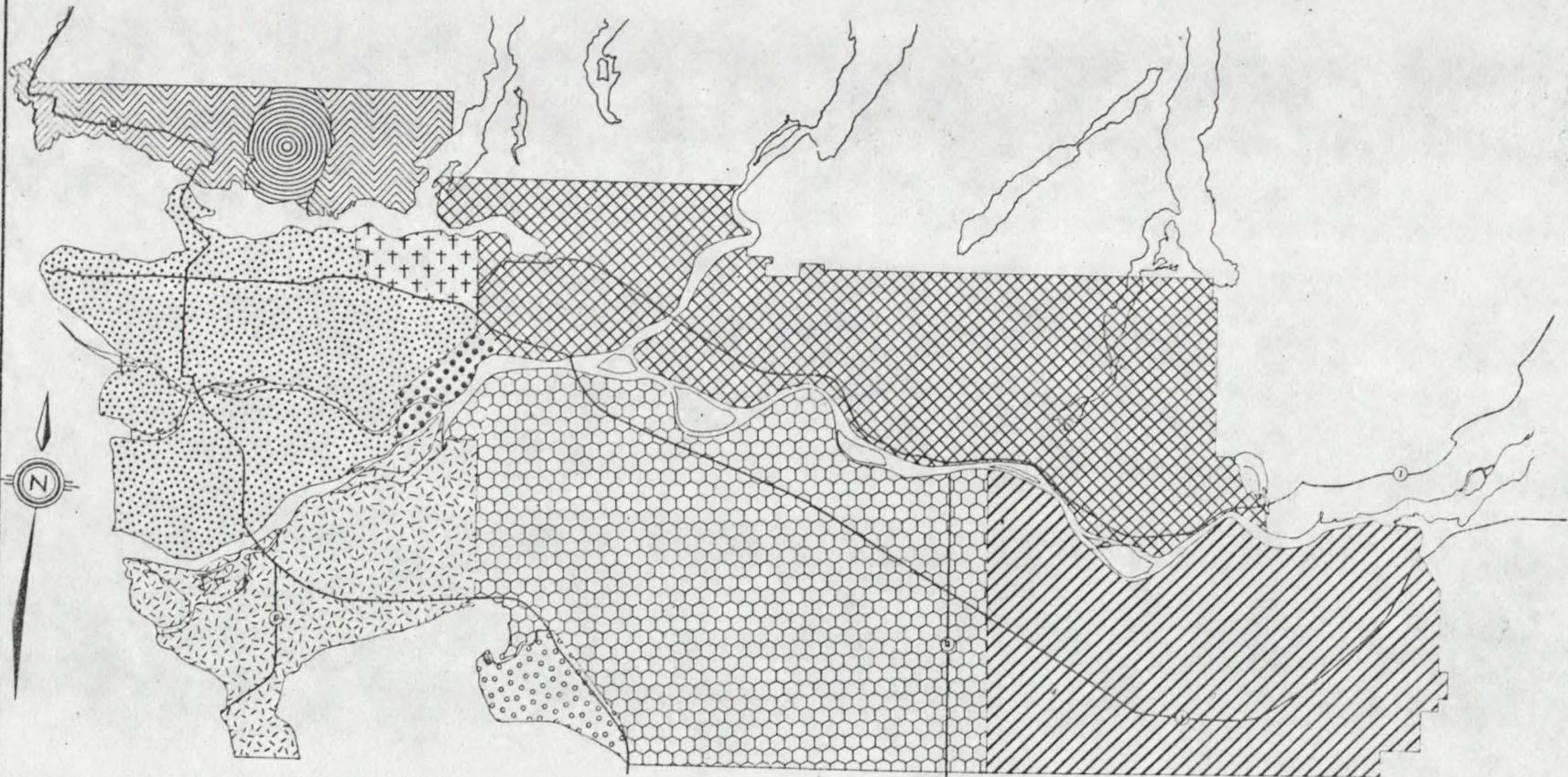
6.10

Manila 6020
Cebu 8730

Honolulu 2420
Sydney 8820

Auckland 6190

METROPOLITAN VANCOUVER CABLEVISION SYSTEMS



- CANADIAN WIREVISION LIMITED
- ◊◊◊◊◊ DELTA CABLE TELEVISION LTD.
- ||||| EXPRESS CABLE TELEVISION LTD.
- FRASER VALLEY CABLEVISION LIMITED
- ////// M.S.A. CABLEVISION LTD.
- ◊◊◊◊◊ COQUITLAM CABLEVISION LIMITED
- ◊◊◊◊◊ NORTH WEST COMMUNITY VIDEO LIMITED
- † † † † † † WEST COAST CABLEVISION LTD.
- WESTERN CABLEVISION LIMITED
- ◊◊◊◊◊ WHITE ROCK CABLEVISION LIMITED

Source: CRTC

British Columbia

01	Abbotsford-Clearbrook	M S A Cablevision Limited.	32	Merritt	Merritt Cablevision Limited
02	Bella Bella	Newman, Edwin G.	33	Montrose and Fruitvale	Community Video (Montrose-Fruitvale) Limited
03	Benson Lake	Benson Lake Recreation Club	34	Nanaimo and surrounding area	Community Video (Nanaimo) Limited
04	Britannia Beach	Picard, Geoffrey Charles	35	Natal-Michel-Sparwood-Eik	Fernie Television Limited
05	Burnaby	West Coast Cablevision Limited	36	Nelson and surrounding area	North West Community Video Limited
06	Campbell River and Surrounding area	Campbell River TV Association,	37	New Westminster	Western Cablevision Limited
07	Chilliwack	Valley Televue Limited	38	North Vancouver	Express Cable Television Limited
08	Coquitlam, Maple	Coquitlam Cablevision Limited	39	Oliver	Oliver Tele-Vue Limited
09	Ridge, Mission	C - CTV	40	Penticton, Naramata, Okanagan Falls	South Okanagan Television Distributors Limited
10	Courtenay-Coomox-Cumberland	Cranbrook Television Limited	41	Port Alberni	Alberni Cable Television Limited
11	Cranbrook	Creston Cabled-Video Limited	42	Powell River	Powell River Television Company Limited
12	Creston	Cowichan Valley Television Limited	43	Prince Rupert	Skeena Broadcasters Limited
13	Duncan and North Cowichan	Fernie Television Limited	44	Princeton	Princeton Television Limited
14	Fernie	Green, Walter H.J.	45	Revelstoke	Central TV Systems Limited.
15	Franklin River Logging CA	Delta Cable Television Limited.	46	Riondel	Creston Cabled-Video Limited
16	Fraser River Delta, Ladner	Delta Cable Television Limited	47	Robson, Castlegar, Kinnaird	North West Community Video Limited
17	Fraser River Delta, N. Delta	Northwest Communications Limited	48	Rosland-Trail	Community Video Limited
18	Gibson's Landing Area	Walker, Arnold M.	49	Saanich	Davin Enterprises Limited
19	Gillies Bay	Telesis Development Co. Limited	50	Saanich-Sidney	Saanich Cablevision Limited
20	Gold River, Tahsis	Golden Television Limited	51	Salmo	Salmo Cabled Programmes Limited.
21	Golden	Greenwood Video Limited	52	Salt Springs Island	Aristocrat Cookware Limited
22	Greenwood and Anaconda	South Okanagan Television Distributors Limited	53	Sechelt	North West Communications Limited
23	Hedley	Kaslo Television Limited	54	Sooke	Langford Sooke Cablevision Limited
24	Kaslo	Black Knight Television Company Limited	55	South Slokan	South Slokan Television Co-operative Assoc.
25	Kelowna	Kelsey Cable Limited	56	Squamish	Reliance Distributors of B.C. Limited
26	Kelsey Bay	Kootenay Enterprises Limited	57	Surrey	Fraser Valley Cablevision Limited
27	Kimberley, Chapman Camp, MA	Creston Cabled-Video Limited	58	Terrace	Skeena Broadcasters Limited
28	Kingsgate	Skeena Broadcasters Limited	59	Ucluelet-Port Albion	Ucluelet Video Services Limited
29	Kitimat	L. & C. Cablevision Limited	60	Vancouver	Canadian Wirevision Limited
30	Ladysmith	Lake Video Service Limited	61	West Vancouver, North Vancouver	North West Community Video Limited
31	Lake Cowichan, Mesachie L.		62	White Rock	White Rock Cablevision Limited
			63	Yahk	Creston Cabled-Video Limited
			64	Youbou	Youbou Television Limited

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k			CDN net			tot	local	cap	fm	u
		access	pot'l	act'l	fee	mo			A	C	N	E	B	F					
01 FEE 67	Abbotsford	3000	4000	1700	Nil	4.95	35*55	C	2	1	1	2	1	7		12	5		
02 JJO 67	Benson Lake		60	30	Nil	Nil		B				1		1		1			
03 OOO 62	Burnaby								1	2	1	2	1	7			F		
04 EEE 58	Campbell R.	3500	4000	3200	125	3.50	70*80	Comp	1	2	1	2	1	7	M	12	5		
05 OOO 00	Chemaimus								1	2	1	2	1	7			F		
06 EDO 65	Chilliwack		5500	4000	20	4.75	55*59	B,C	1	1	1	2	1	6	TW	12	9		
07 EEE 57	Comox	4000	4000	3100	50	5.00	55	A,J	1	1	1	1	1	5		5			
08 EEE 54	Cranbrook	3200	3500	2700	15	5.00	40	B,J	1	1	1	1	2	6		15			
09 FFE 55	Creston	3K	1800	1300	15	5.00	30	J	1	1	1	1	1	6	L	12	9		
10 DCD 66	Delta	9K	11K	7000	15	5.00	140*180	C,J	1	2	1	1	2	8	W	12	10		
11 FFF 58	Fernie	1400	1800	1200	25	5.00	15	C,J	1			1	1	3			2		
12 JJJ 54	Field	90	80	74	50	10.00	6	A,C				2		2		6	F		
13 JJJ 61	Franklin R.	60	76	66	25	6.00	4	B,D	1					1		5			
14 HFO 70	Gibson L.		1450	384	15	5.50			1	2	1			4		12			
15 OOO 66	Gillies Bay								1	1	1			3					
16 GOG 62	Golden	850		750	25	6.00	25*28	Comp				2		2	TW,L	5	F		
17 OOO 00	Gold River								1			1		2					
18 IIO 63	Greenwood		250	220	15	7.50		C,D	1	1	1	1		4		12	6		
19 FDE 68	Haney etc.	2835	7800	1708	15	5.00	36	C	1	2	1	2	1	7	TW	12	7		
20 IOI 64	Hedley	135		135	50	4.00	4	M,W				1	1	2		5	F		
21 OOO 00	Kamloops											1		1					
22 III 58	Kaslo	230	270	250	10	4.50	4	J	1			1		2		3			
23 EDD 57	Kelowna	6500	6000	3500	25	5.00	90	C,J	1	1	1	1	1	5		12	2		
24 IIO 67	Kelsey Bay		250	100	125	5.00		J	1			1	1	3		5			
25 FFF 54	Kimberley	2300	2000	1950	25	5.00	20	C	1	1		2	1	5	L	13	3		
26 JOO 64	Kissinger			30					1			2		3					
27 HOO 64	L. Cowichan			425					1	1	1	2	1	6					
28 OOO 66	Manity Bay								1	1		1		3					
29 GFF 61	Merritt etc	1700	1700	920	20	7.50	21	C,J	1			2	1	4		12			
30 GGG 61	Montrose	950	1000	905			20	J				1		1		12	5		
31 EDD 64	Nanaimo	6300	8000	4800	15	5.00	100*125	J	1	2	1	2	1	7	TW	12	9		
32 GGG 58	Natal	700	1000	600	25	5.00	15	C,J	1			2	1	4		5			
33 EEE 53	Nelson	3600	3500	3343	15	5.00	67	J	1	1	1	1		5	L	12	6		
34 IIO 57	New Denver		200	111	125	3.00	15*17	Comp	1					1		1			
35 COC 65	New Westm'r	12K		12K	nil	5.00	70	J	1	2	1	1	1	9	TW	12	7		
36 CCC 62	N. Vancouver	16.3K	17.5K	12.6K	15	5.00	100	C	1	2	1	2	1	7	TW	12	9		
37 CCC 58	N&W Vancouver	16.5K	24K	17.6K	15	5.00	265*285	J	1	2	1	1	1	9	L	12	12		
38 GOG 64	Oliver	600		575	25	5.00	18*20		1	1	1	1	1	6			6		
39 EDD 56	Penticton	6000	6000	4000	25	5.00	100*180	Comp	1	1	1	1	1	5		12	F		
40 EDD 56	P. Alberni	6000	6000	4634	15	6.00	83	C	1			2	1	4	TW	12			



P1006 / D.O.C.
source: ASDA / TVF

CATV SYSTEMS SUMMARY

BRITISH COLUMBIA

R 201
11.02

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k			CDN net		tot	local	cap	fm	v
		access	pot'l	act'l	fee	mo			A	C	N	I	E					
41 CCC 59	P. Coquitlam	18.8K	20.5K	15.3K	15	5.00	187*213	C	1	2	1	2	1	7	TW,L	12	9	
42 000 61	Princeton											1		1				
43 FFF 58	Revelstoke	1500	1600	1407	25	6.00	25*28	A,B	1			1	1	3		6	2	
44 FFF 57	Robson Ridge	2000	2000	1728	15	5.00	45		1	1	1	1		5	L	12	8	
45 DDD 55	Rossland	6050	6500	5181	15	5.00	78*88	J	1	1	1	1		5	L	12	5	
46 FFE 65	Saawich	3000	2500	1650	15	5.00	54*61	C	1	2	1	2	1	8	TW	12	8	
47 HHH 58	Salmo	300	350	268	50	5.00	4	C	1	1	1	1		4		12		
48 HGO 66	Salt Spring I		1000	400	19	6.00			1	2	1	1	2	8		12	F	
49 HFO 70	Sechelt		1385	465	15	5.50			1	2	1	1	2	8		12		
50 JJO 58	S. Slocan		65	50	25	5.00	5	B,C	1	1	1		1	4				
51 HGH 57	Sqwamish	450	650	370	60	5.00	8*13	J	1	1	1			3		5		
52 DDD 66	Surrey	7000	10K	7500	15	5.00	80*180	C	1	1	1	1	1	8	TW	12	7	
53 000 62	Tofino											1		1				
54 HHF 59	Ucluelet	240	300	250	15	7.00	5*13	Comp	1	1	1	1		4		5	4	
55 IIO 57	Vananda		150	120	120	5.00	4	Comp	2			2	1	5		6		
56 AAA 58	Vancouver	154K	186K	128K	15	5.00	750*825	C	1	2	1	2	1	8	TW,L	12	9	
57 IGO 61	Victoria		600	180	nil	3.50		Comp	1	1	1	1	2	6		12	F	
58 BBB 60	Victoria	49.8K	50K	42K	15	4.50	425*465	C	1	2	1	2	1	10	TW,L	12	25	
59 FDE 67	Victoria	3100	7000	1544	15	4.50	33*55	C	1	2	1	1	1	9	TW	12	F	
60 000 65	White Rock								1	2	1	1	2	8			F	
61 HHH 57	Youbou	280	280	274	15	5.00	5	J	1	1	1	1	1	5		5		



P 1006 / D.O.C.
source: ASDA / TVF

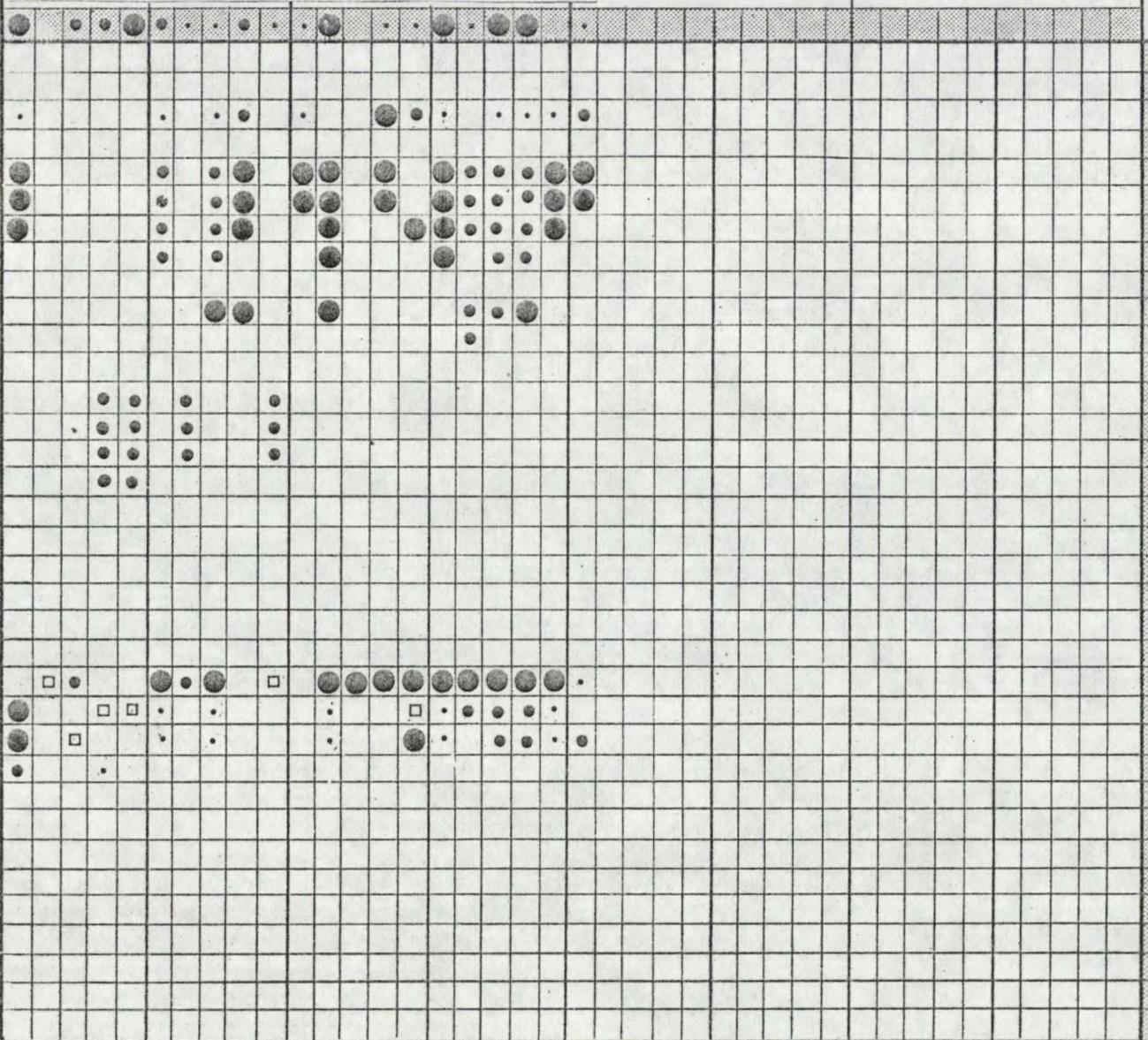
CATV SYSTEMS SUMMARY

BRITISH COLUMBIA

41 CCC 59
42 000 61
43 FFF 58
44 FFF 57
45 DDD 55
46 FFE 65
47 HHH 58
48 HGO 66
49 HFO 70
50 JJO 58
51 HGH 57
52 DDD 66
53 000 62
54 HHF 59
55 IIO 57
56 AAA 58
57 IGO 61
58 BBB 60
59 FDE 67
60 000 65
61 HHH 57

BRITISH COLUMBIA

**CATV SIGNAL SOURCES
U.S. & CDN. STATIONS**



- KVOS 12 Bellingham
- KOMO 4 Seattle
- KING 5
- KIRO 7
- KCTS 9
- KTNT 11 Tacoma
- KTW 13
- KREM 2 Spokane
- KXLY 4
- KHQ 6
- KCPS 7
- KCFW 9 Kalispell
- CFCR 4 Kamloops
- CHBC 2 Kelowna
- CBUT 2 Vancouver
- CHAN 8
- CHEK 6 Victoria
- CHCT 2 Calgary
- CFCN 4
- CFRN 3 Edmonton
- CBXT 5
- CBXFT 11
- CJLH 7 Lethbridge



BRITISH COLUMBIA

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Armstrong	1.6		Hope	3.2	o
Ashcroft	1.9		Invermere	1.1	
Burns Lake	1.3		Kamloops	26.2	@ 21.00
Cache Creek	1.0		Kelowna	19.4	@ 23.25
Castlegar	3.1	o	Kimberley	7.6	0 25.27
Chase	1.2		Kinnaird	2.8	o .47
Chetwynd	1.3		Ladysmith	3.7	o .30
Chilliwack	9.1	0 06.07	Lake Cowichan	2.4	27.31
Comox	4.0	o 07.10	Langley	4.5	o
Courtenay	7.2	0 07.10	Lillooet	1.5	
Cranbrook	12.0	@ 08.11	Marysville	1.1	
Creston	3.2	o 09.12	Merritt	5.3	0 29.32
Cumberland	1.7		Mission City	3.4	o
Dawson Creek	11.9	@	Montrose	1.1	30.33
Duncan	4.4	o .13	Nakusp	1.2	
Enderby	1.2		Nanaimo	14.9	@ 31.34
Fernie	4.4	o 11.14	Nelson	9.4	0 33.36
Fort Nelson	2.3		* New Westminster	42.8	@ 35.37
Fort St. James	1.5		* North Vancouver	31.8	@ 36.38
Fort St. John	8.3	0	Oliver	1.6	38.39
Fraser Lake	1.3		100 Mile House	1.1	
Fruitvale	1.4	30.33	Osoyoos	1.3	
Gibsons Landing	1.9	14.18	Parksville	2.2	
Golden	3.0	o 16.21	Penticton	18.1	@ 39.40
Grand Forks	3.2	o	Port Alberni	20.1	@ 40.42

BRITISH COLUMBIA

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Port Alice	1.5		Williams Lake	4.1	o
Port Coquitlam	19.6	@ 41.			
Port Edward	1.0				
Port Moody	10.8	@			
Prince George	33.1	@			
Prince Rupert	15.7	@ .43			
Princeton	2.6	o 42.44			
Qualicum Beach	1.2				
Quesnel	6.3	o			
Revelstoke	4.9	o 43.45			
Rossland	3.9	o 45.48			
Salmon Arm	1.9				
Sidney	4.9	o .50			
Smithers	3.9	o			
South Fort George	1.3				
Tahsis	1.4				
Trail	11.1	@ 45.48			
Ucluelet	1.0	.59			
Valleyview	3.8	o			
* Vancouver	426.3	@ 56.60			
Vanderhoof	1.7				
Vernon	13.3	@			
* Victoria	61.8	@ 57.			
Warfield	2.1				
White Rock	10.3	@ 60.62			

CATV SYSTEMS

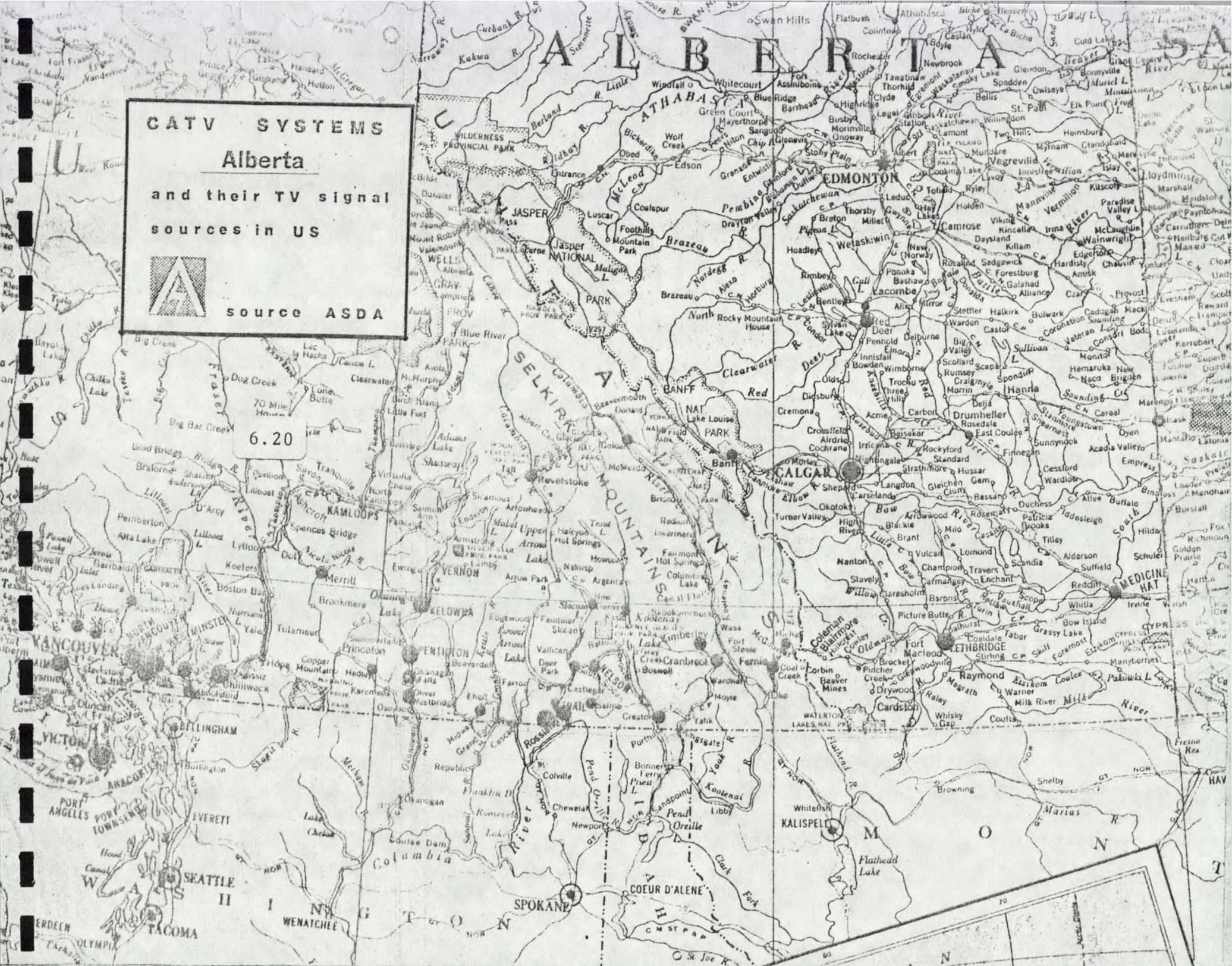
Alberta

and their TV signal sources in US



source ASDA

6.20





Alberta	
01 Athabasca	Superior Communication Systems Limited
02 Banff	Banff Community Antenna Limited
03 Calgary	Community Antenna Television Limited
04 Calgary	Calgary Cable TV Limited
05 Edmonton	Capital Cable Television Limited
06 Edmonton	QCTV Limited
07 Fort McMurray	Alberta Broadcasting Corporation Limited
08 Grande Cache	Grande Cache Developments Limited
09 Hinton and Drinnan	Rocky Mountain CATV Limited
10 Lethbridge	Cablevision Lethbridge Limited
11 Medicine Hat—Redcliff	Cablevision Medicine Hat Limited
12 Rainbow Lake — High Level	Alberta Broadcasting Corporation Limited
13 Red Deer	Community Video (Red Deer) Limited
14 St. Paul	Community Antenna Systems Limited
15 Tar Island	Sutherland, D. Rae
16 Wainwright	Iverson, Brian Lewis

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k			CDN net			tot	local	cap	fm	v
		access	pot'	act'	fee	mo			A	C	N	E	B	F					
01 IIH 60	Athabasca	350	275	225	nil	8.50	8	B,J			1	1	1	3		7	f		
02 IGG 57	Banff	IK	IK	115	nil	4.00	7	J,W			1	1		2		5	af		
03 IIH 65	Blackfolds	350	250	100	15	5.00	3	B,J			2	2		4		5			
04 OBO 68	Calgary		37K		15	6.00	*375		1	1	1	1		4	TW	20			
05 OBA 71	Calgary	65K	45K		15	6.25	*400	Comp	1		1	2	1	5	TW,L	12			
06 000 56	East Coulee										1	1		2					
07 000 70	Edmonton								1	1	1	1	1	5					
08 000 71	Edmonton													0					
09 HFG 62	Hinton	IK	1.5K	400	15	6.00	12*15					1		1		8			
10 JHO 64	Lac La Beche		300	30	15	3.00					1	1		2					
11 EDC 64	Lethbridge	11K	7.5K	4450	10	5.00	76*88	C,J		2	1			3	TW,L		4		
12 000 66	McMurray						3							0		1	af		
13 EED 64	Medicine Hat	8.3K	5K	3700			80	Comp		2	1			3	TW	12	af		
14 EDD 61	Red Deer	7K	7K	4200	15	5.00	56	C,J			3	2	1	6	TW	12	2		
15 IHH 58	St. Paul	400	400	100	25	4.85	8*12	C,J			1	1	1	3		*12	f		
16 JJO 65	Wainwright		100	78	5	2.50		J			2			2		5			

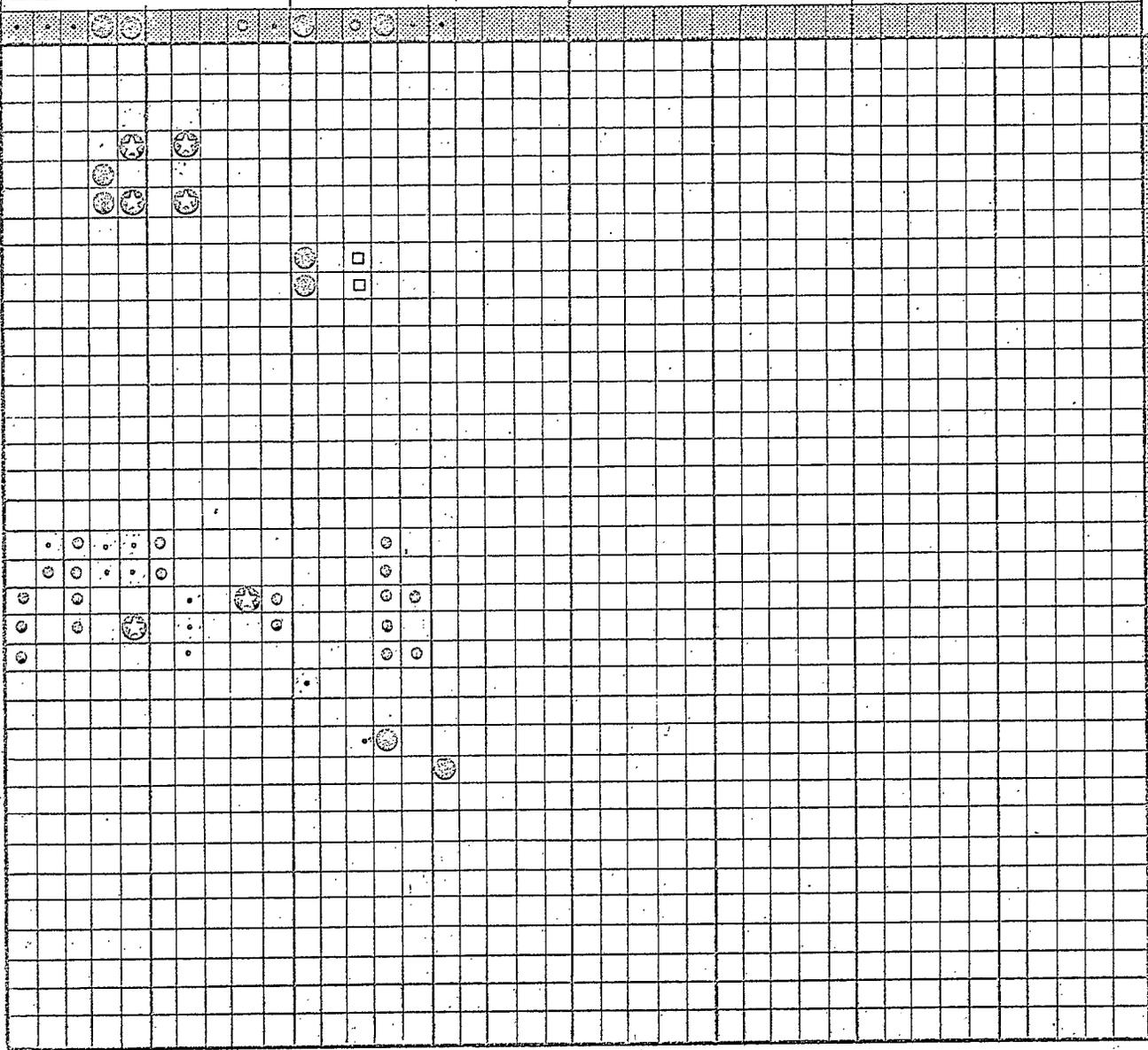


ALBERTA

CATV SIGNAL SOURCES
U.S. & CDN. STATIONS

01 IHH 60
02 IGG 57
03 IHH 65
04 OBO 68
05 OBA 71
06 000 56
07 000 70
08 000 71
09 HFG 62
10 JHO 64
11 EDC 64
12 000 66
13 EED 64

15 IHH 58
16 JJO 65



A
C
N
E

J
J
I

B
Y
T
D
I
E
E
B
B

- KREM 2 Spokane
- KXLY 4
- KHQ 6
- KSPS 7

- KRTV 3 Great Falls
- KFBB 5
- KCFW 9 Kalispell

- CHCT 2 Calgary
- CFCN 4
- CFRN 3 Edmonton
- CBXT 5
- CBXFT 11
- CJLH 7 Lethbridge
- CKSA 2 Lloydminster
- CHAT 6 Med. Hat
- CKRD 6 Red Deer
- CHCA

mont. wash.

alberta



ALBERTA

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Airdrie	1.1		Fairview	2.1	
Athabasca	1.8	01.01	Fort Macleod	2.7	o
Barrhead	2.8	o	Fort McMurray	6.8	0
Beaverlodge	1.2		Fort Saskatchewan	5.7	0
Bellevue	1.2		Fox Creek	1.3	
Blairmore	2.0		Grand Centre	2.1	
Bonnyville	2.6	o	Grande Cache	2.5	o .08
Bow Island	1.2		Grande Prairie	13.1	0 #
Brooks	4.0	o	Grimshaw	1.7	
* Calgary	403.3	0 04.03 #	Hanna	2.5	o
Camrose	8.7	0 #	High Level	1.6	
Canmore	1.5		High Prairie	2.4	
Cardston	2.7	o	High River	2.8	o
Castor	1.2		Hinton	4.9	o 09.09
Claresholm	2.9	o	Innisfail	2.5	o
Coaldale	2.8	o	Lac la Biche	1.8	10.
Cochrane	1.0		Lacombe	3.4	o
Cold Lake	1.3		Leduc	4.0	o
Coleman	1.5		Lethbridge	41.2	0 11.10 #
Devon	1.5		Lloydminster	**	#
Didsbury	1.8		Magrath	1.2	
Drayton Valley	3.9	o	Manning	1.1	
Drumheller	5.4	0 #	Mayerthorpe	1.0	
* Edmonton	438.1	0 07.05 #	McLennan	1.1	
Edson	3.8	o	Medicine Hat	26.5	0 13.11 #

** See Saskatchewan



ALBERTA

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.
Morinville	1.5		Three Hills	1.4	
Okotoks	1.2		Valleyview	1.7	
Olds	3.4	o	Vauxhall	1.0	
Peace River	5.0	0	Vegreville	3.7	o
Picture Butte	1.0		Vermilion	2.9	o
Pincher Creek	3.2	o	Viking	1.2	
Ponoka	4.4	o	Vulcan	1.4	
Provost	1.5		Wainwright	3.9	o 16.16
Raymond	2.2		Westlock	3.2	o
Redcliff	2.3		Westkiwin	6.3	0
Red Deer	27.7	⊙ 14.13 #	Whitecourt	3.2	o
Redwater	1.3				
Rimbey	1.5				
Rocky Mtn House	3.0	o			
St. Albert	11.8	⊙			
St. Paul	4.2	o 15.14			
Slave Lake	2.1				
Spirit River	1.1				
Spruce Grove	3.0	o	# Part of Ten-City Microwave Plan		
Stettler	4.2	o			
Stony Plain	1.8				
Strathmore	1.1				
Swan Hills	1.4				
Sylvan Lake	1.6				
Taber	4.8	o			

SASKATCHEWAN MANITOBA

CATV SYSTEMS
Sask Man
and their TV signal
sources in US



source ASDA



6.30

GRAND FORKS

BROOKSTON



Saskatchewan

- 01 Alsask (CFB)
- 02 Estevan
- 03 Ponteix
- 04 Prince Albert
- 05 Weyburn

Stewart, Lt. Col. W.D.
Co-Ax Cable T.V. Limited
Sask - Ponteix T.V. Club
Community TV Limited
Co-Ax Cable TV Limited

Manitoba

- 01 Greater Winnipeg,
east of
- 02 Pinawa
- 03 St. Lazare
- 04 Shilo (CFB)
- 05 Thompson
- 06 Winnipeg

Greater Winnipeg Cablevi-
sion Limited
Metro Videon Limited
The Fouillard Implement
Exchange Limited
Gunter, Col. D.H.
CESM-TV Limited
Winnipeg Videon Limited

code	location	subscribers			rates		plant	equ't	US netw'k	CDN net	tot	local	cap	fm	v
		access	pot'l	act'l	fee	mo	miles	mfr	A C N I E	B F T I E					
Saskatchewan															
01 JHI 67	Estenhazy	100	400	50	10	3.95	3*8	J		2					F
02 EEE 58	Estevan	3075	3500	2700	15	4.50	28	C,J	1 1	2 1		TW,L	12	3	
03 FFO 55	Prince Albert		2000	1500	24	4.00		Comp		1 1			5		
04 FEE 63	Weyburn	3350	2800	2345	15	4.50	27	A,J	1 1 1	2 1		TW		2	
Manitoba															
01 GOG 63	Pinawa	515		515	20	4.50	5*10	Comp	1	1 1 1			5	4	
02 IHI 60	Pine Falls	250	300	230	50	2.00	8*10	Comp	1	1 1			12	F	
03 JOO 63	St. Lazare			55						2			2		
04 FFD 61	Thompson		1500	1100					1	1		L	5		
05 CBO 68	Winnipeg		40K	15K	10	5.00		C,J	2 1 1	1 1 1			7		
06 BBA 68	Winnipeg	85K	50K	28K	10	5.00	605*635	Comp	2 1 1	1 1 1			12	1	



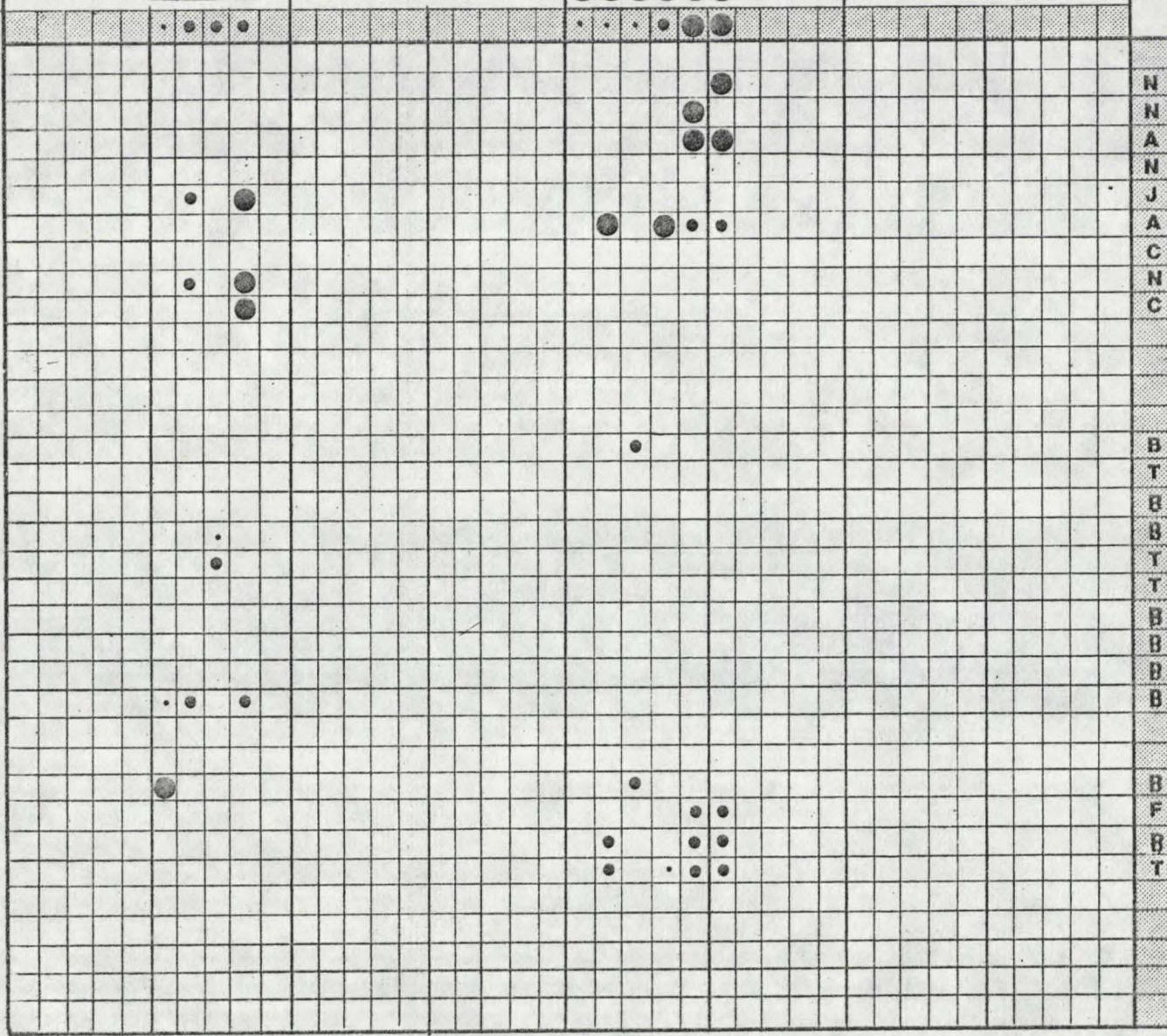
**SASKATCHEWAN &
MANITOBA**
CATV SIGNAL SOURCES
U.S. & CDN. STATIONS

SASK.

01 JHI 67
02 EEE 58
03 FFO 55
04 FEE 63

MAN.

01 GOG 63
02 IHI 60
03 JOO 63
04 FFD 61
05 CBO 68
06 BBA 68



N WDAZ 8 Devil's Lake
N WDAY 6 Fargo
A KTHI 11
N KMOT 10 Minot
J KXMC 13
A KCND 12 Pembina
C KXJB 4 Valley City
N KUMV 8 Williston
C KXMD 11

B CFSS 7 Carlyle Lake
T CKMJ 7 Marquis
B CKBMT 4 Moose Jaw
B CKBI 5 P. Albert
T CFQC 8 Saskatoon
T CKCK 2 Regina
B CBKRT 9
B CJFB 5 Swift C.
B CHSS 6 Wynyard
B CKOS 3 Yorkton

B CKX 5 Brandon
F CBWFT 3 Winnipeg
B CBWT 6
T CJAY 7

n. dakota

sask.

man.



SASKATCHEWAN

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.	
Assiniboia	2.7	o	Langenburg	1.2		
Battleford	1.8		Lanigan	1.4		
Biggar	2.6	o	Leader	1.1		
Canora	2.6	o	Lloydminster	8.7	0	
Carlyle	1.1		Maple Creek	2.3		
Carnduff	1.1		Meadow Lake	3.4	o	
Creighton	1.9		Melfort	4.7	o	
Davidson	1.0		Melville	5.4	0	
Esterhazy	2.9	o	01.	Moose Jaw	31.9	0
Estevan	9.2	0	02.02	Moosomin	2.4	
Eston	1.4		Nipawin	4.1	o	
Flin Flon	**		North Battleford	12.7	0	
Foam Lake	1.3		Outlook	1.8		
Fort Qu'Appelle	1.6		Oxbow	1.4		
Gravelbourg	1.4		Preeceville	1.1		
Grenfell	1.4		Prince Albert	28.5	0	03.04
Gull Lake	1.2		Radville	1.0		
Herbert	1.0		Regina	139.5	0	
Hudson Bay	2.0		Rosetown	2.6	o	
Humboldt	3.9	o	Rosthern	1.4		
Indian Head	1.8		Saskatoon	126.4	0	
Kamsack	2.8	o	Shaunavon	2.2		
Kelvington	1.1		Shellbrook	1.0		
Kerrobert	1.2		Swift Current	15.4	0	
Kindersley	3.5	o	Tisdale	2.8	o	

** See Manitoba

SASKATCHEWAN

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Unity	2.3		Minnedosa	2.6	o
Wadena	1.4		Morden	3.3	o
Wakaw	1.0		Morris	1.4	
Watrous	1.5		Neepawa	3.2	o
Weyburn	8.8	0 04.05	Portage la Prairie	13.0	⊙
Whitewood	1.1		Rivers	1.2	
Wilkie	1.6		Roblin	1.8	
Wolseley	1.0		Russell	1.5	
Wynyard	1.9		Ste. Anne	1.1	
Yorkton	13.4	⊙	St. Boniface	46.7	⊙
			St. James-Assini.	71.4	⊙
MANITOBA			St. Vital	33.0	⊙
Altona	2.1		Selkirk	9.3	0
Beauséjour	2.2		Souris	1.7	
Boissevain	1.5		Steinbach	5.2	0
Brandon	31.2	⊙	Stonewall	1.6	
Brooklands	4.2	o	Swan River	3.5	o
Carberry	1.3		The Pas	6.1	0
Carman	2.0		Thompson	19.0	⊙ .05
Dauphin	8.9	0	Transcona	22.5	⊙
East Kildonan	30.2	⊙	Tuxedo	3.3	o
Flin Flon	9.3	0	Virden	2.8	o
Gimli	2.0		West Kildonan	24.0	⊙
Killarney	2.1		Winkler	3.0	o
Melita	1.1		Winnipeg	246.2	⊙ .06



CATV SYSTEMS
Ontario
 and their TV signal
 sources in US



source ASDA

6.40

602

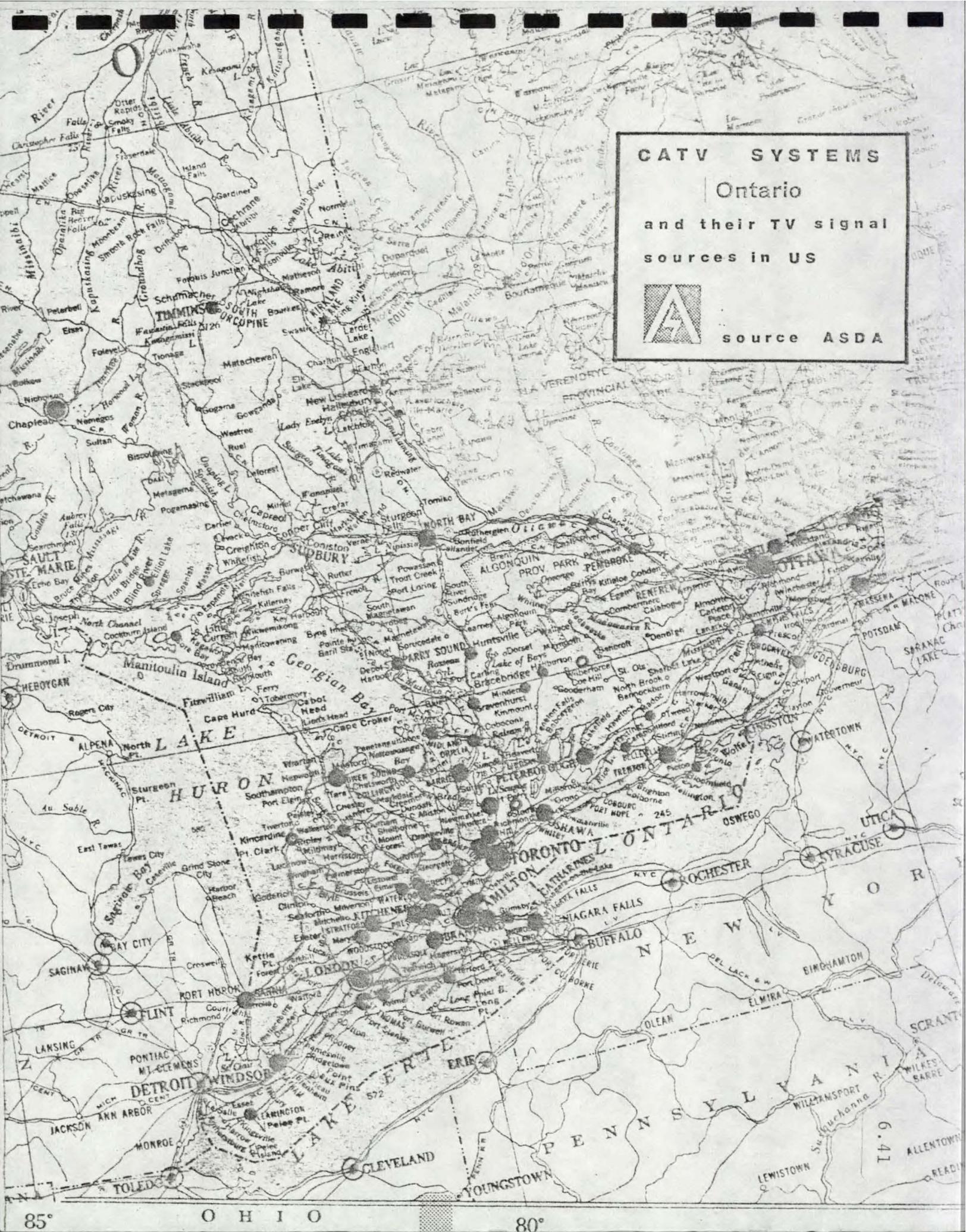
800

800

CATV SYSTEMS
Ontario
and their TV signal
sources in US

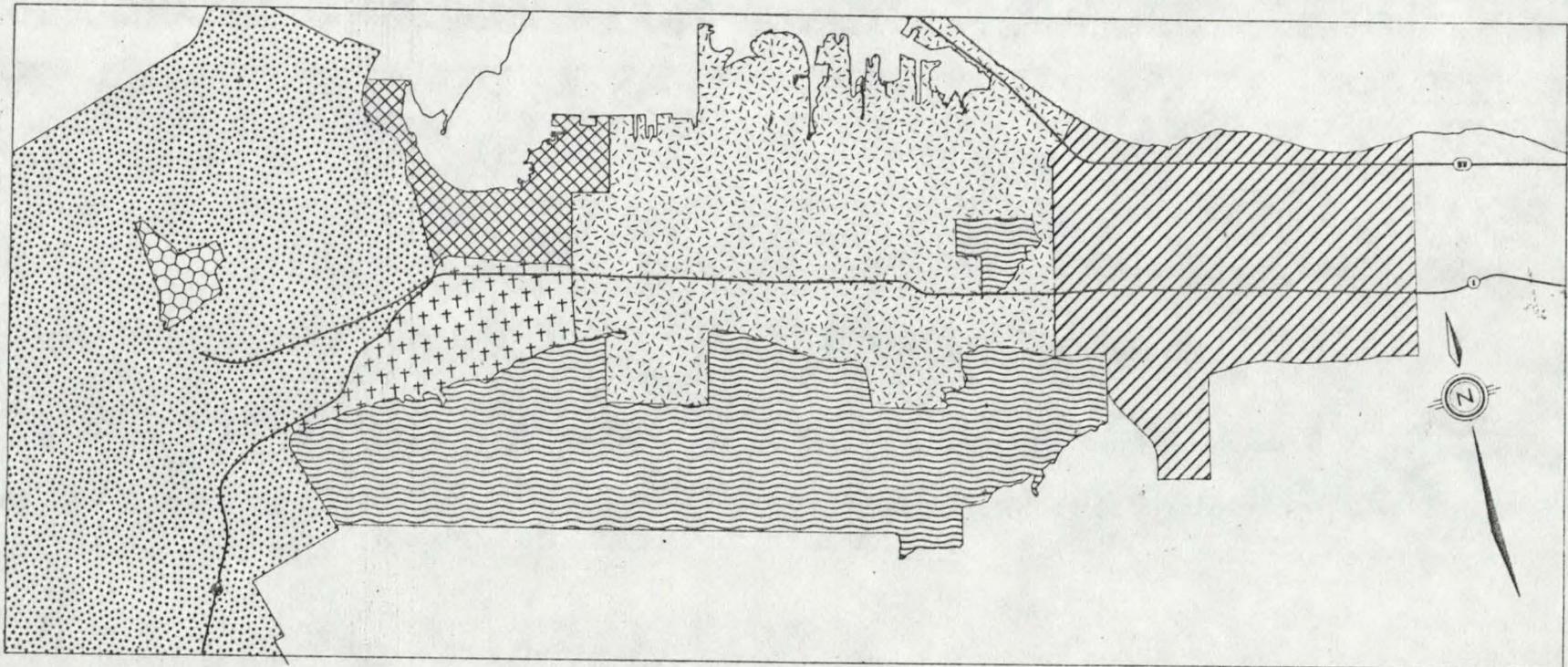


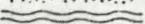
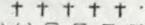
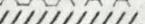
source ASDA





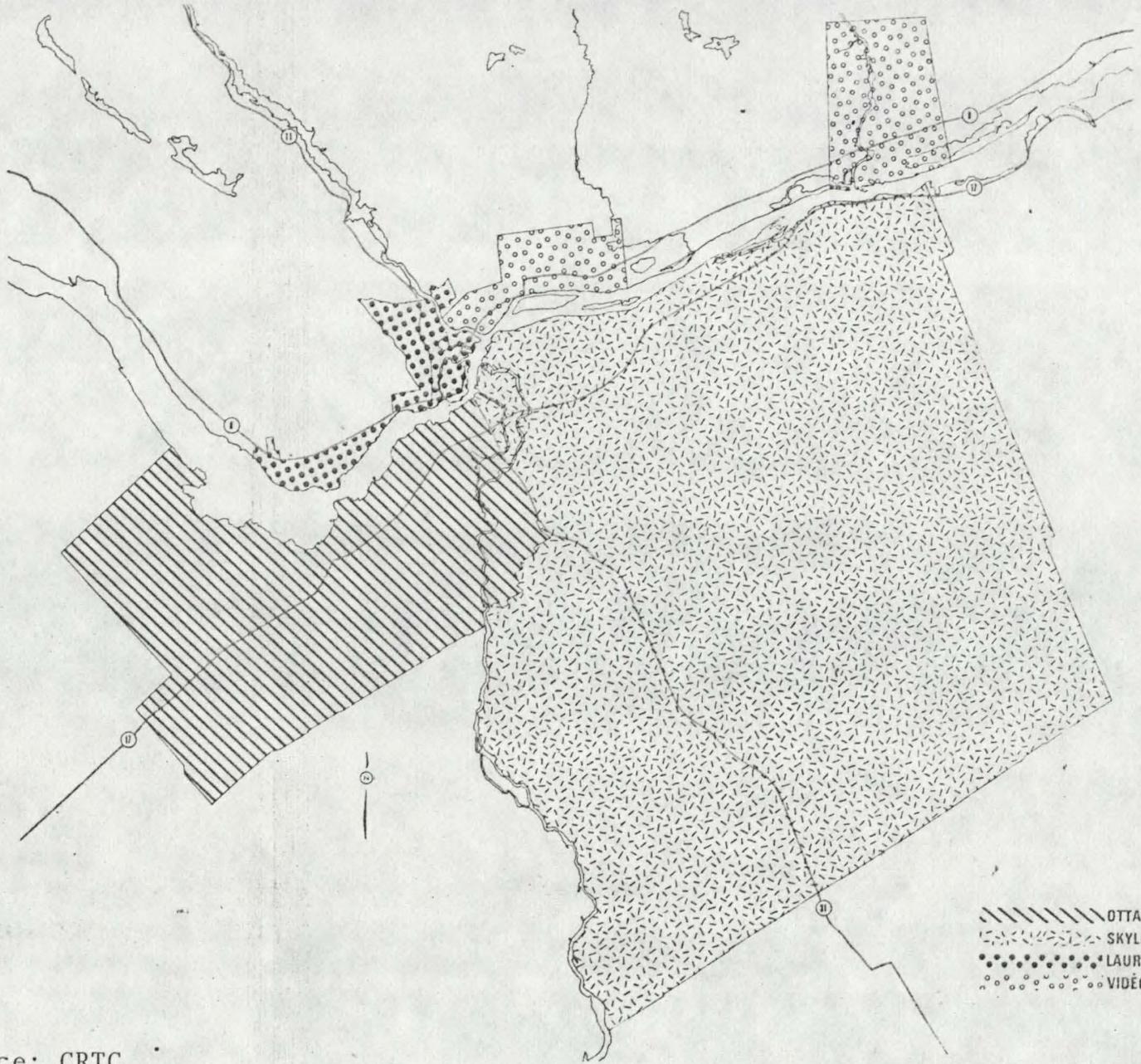
HAMILTON CABLEVISION SYSTEMS



-  HAMILTON CO-AXIAL TV LIMITED
-  NORTHGATE CABLE TV LIMITED
-  WESTERN CABLE TV LIMITED
-  GENERAL CO-AXIAL SERVICES LTD.
-  MACLEAN-HUNTER CABLE TV LIMITED
-  HAMILTON TV & APPLIANCE SERVICE CO. LIMITED
-  NIAGARA CO-AXIAL LIMITED

Source: CRTC

OTTAWA-HULL CABLEVISION SYSTEMS

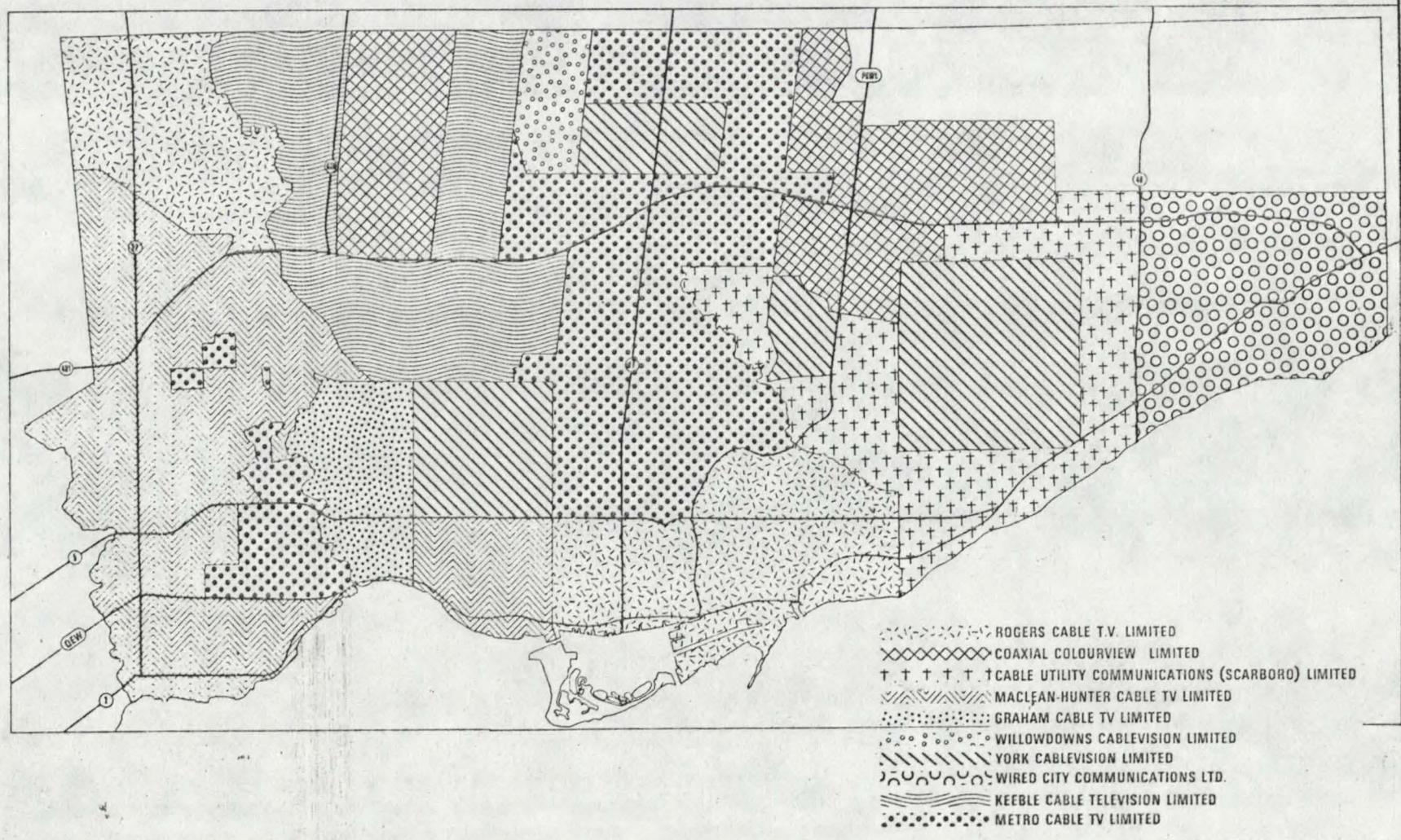


////// OTTAWA CABLEVISION LIMITED
- - - - SKYLINE CABLEVISION LIMITED
••••• LAURENTIAN CABLEVISION LIMITED
○ ○ ○ ○ ○ VIDÉOTRON LTÉE.

Source: CRTC



METROPOLITAN TORONTO CABLEVISION SYSTEMS



Source: CRTC

Ontario

01 Ajax-Pickering	Maclean-Hunter Cable TV Limited	32 Grimsby	Grimsby Cable TV Limited
02 Atikokan	Nor-Video Services Limited	33 Guelph	Maclean-Hunter Cable TV Limited
03 Aurora	Aurora Cable TV Limited	34 Hailebury	Brown, John A.
04 Aylmer	East Elgin Cable TV Limited	35 Haliburton	Cottager's Security and Service Limited
05 Barrie	Barrie Cable TV Limited	36 Hamilton	General Co-Axial Services Limited
06 Bay Ridges	Bay Ridges Cable TV Limited	37 Hamilton	Maclean-Hunter Cable TV Limited
07 Beardmore	Assad, Harry	38 Hamilton	Northgate Cable TV Limited
08 Belleville & Trenton	Cablevue (Belleville) Limited	39 Hamilton	Western Co-Axial Limited
09 Bolton	Albion Cable TV Limited	40 Hamilton Ancaster and Dundas	Hamilton Co-Axial (1958) Limited
10 Bracebridge	Gravenhurst Cable System Limited	41 Hanover-Walkerton	Saugeen Cable TV Limited
11 Brampton-Bramalea	Bramalea Telecable Limited	42 Hawkesbury	Cie Cable Vision de Hawkesbury Limitée
12 Brantford-Paris	Jarmain Cable TV Limited	43 Hornepayne	Television Hornepayne Limited
13 Brockville	Brockville Amusements Limited	44 Huntsville	Maclean-Hunter Cable TV Limited
14 Burlington	Metro Cable TV Limited	45 Kenora	Kenora Cablevision Limited
15 Burlington	Citizens Cable TV Limited	46 Kincardine	Kincardine Cable T.V. Limited
16 Camp Borden-Alliston	Borden Cable Television Limited	47 Kirkland Lake	Fred Lang TV Limited
17 Campbellford	Redden, Charles Beverly	48 Kitchener-Stratford	Grand River Cable TV Limited
18 Cardiff	Cardiff Cable Limited	49 Leamington-Kingsville	Essex Cable TV Limited
19 Chapleau	Young, George, E.M.D.	50 Lindsay	Lindsay CATV System Limited
20 Chatham	Chatham Cable TV Limited	51 London	London T.V. Cable Service Limited
21 Cobourg	Northumberland Cable TV Limited	52 London and Lambeth	Maclean-Hunter Cable TV Limited
22 Collingwood	Maclean-Hunter Cable TV Limited	53 Madoc	Hastings Cable Vision Limited
23 Cornwall	Cornwall Cable Vision (1961) Limited	54 Manitowadge	Geroy Radio and Television Limited
24 Deep River	Deep River Video Limited	55 Marathon	Lakeshore Community Television Limited
25 Dryden	Orvis, Roy	56 Midland-Penetanguishene	Maclean-Hunter Cable TV Limited
26 Dundas Ancaster and West	Hamilton T.V. & Appliance Service Company Limited	57 Minden	Cottager's Security and Service Limited
27 Fergus-Elora	Fergus-Elora Cable TV Limited	58 Mississauga (Clarkson)	Terra Communications Limited
28 Georgetown	Georgetown Cable TV Limited	59 Mississauga (1)	Metro Cable TV Limited
29 Geraldton	Assad, Harry	60 Mississauga (2)	Metro Cable TV Limited
30 Gore Bay	Harold Ednie & McQuarrie Motors Limited	61 Mississauga-Streetsville	Maclean-Hunter Cable TV Limited
31 Gravenhurst	Gravenhurst Cable System Limited	62 Mississauga (Part of)	Keeble Cable Television Limited
		63 Mississauga (Part of)	Conroy G.R. (OBCI)
		64 New Liskeard	Brown, John A.
		65 Newmarket	Jarmain Cable T.V. Limited
		66 North Bay	Maclean-Hunter Cable TV Limited



Ontario (cont'd)

67	Oakville	Oakville Cablevision Limited	87	St. Thomas	Allview Cable Service Limited
68	Orangeville	Orangeville Cable-Vu Limited	88	Stoney Creek	Niagara Co-Axial Limited
69	Orillia	Orillia Cable TV Limited	89	Strathroy	Airland Communications Services Limited
70	Oshawa-Bowmanville	Oshawa Cable TV Service	90	Swastika	Nowry, Roy E.
71	Ottawa	Skyline Cablevision Limited	91	Terrace Bay	Lakeshore Community Television Limited
72	Ottawa	Ottawa Cablevision Limited	92	Thunder Bay	Maclean-Hunter Cable TV Limited
73	Owen Sound-Meaford	Maclean-Hunter Cable TV Limited	93	Tillsonburg	Till-Cable TV Limited
74	Parry Sound	Radio & T.V. Distribution Limited	94	Toronto	York Cablevision Limited
75	Pembroke-Petawawa	Pembroke Cablevision Limited	95	Toronto	Metro Cable TV Limited
76	Peterborough	Peterborough Cable Television Limited	96	Toronto	Willowdowns Cablevision Limited
77	Picton	Quinte Cablevision Limited	97	Toronto	Rogers Cable T.V. Limited
	Red Rock-Nipigon	Lakeshore Community Television Limited	98	Toronto	Coaxial Colourview Limited
78	Richmond Hill-Kleinburg	Richmond Hill Cable TV Limited	99	Toronto	Graham Cable TV Limited
79	Rockland	Bushnell Communications Limited	100	Toronto (Part of)	Keeble Cable Television
80	Sarnia	Huron Cable T.V. Limited	101	Toronto (Part of)	Cable Utility Communications (Scarboro) Limited
81	Sault Ste. Marie	Lake Superior Cablevision Limited	102	Toronto (Part of)	Wired City Communications Limited
82	Schreiber	Sisson, Ray N.	103	Toronto Metro (Part of)	Maclean-Hunter Cable TV Limited
83	Simcoe	Clearview Cable TV Limited	104	Uxbridge	Compton, Simon Theodore (OBCI)
84	Smiths Falls	Smiths Falls Cablevision Limited	105	Wallaceburg	Huron Cable T.V. Limited
85	St. Catharines	Maclean-Hunter Cable TV Limited	106	Wawa	Wawa Cable Vision Limited
86	St. Mary's	Adelaide Radio and Television Limited	107	White River	Lakeshore Community Television Limited
			108	Woodstock-Ingersoll	Western Cable TV Limited

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k					CDN net			tot	local	cap	fm	c
		access	po'	fac't'	fee	mo			A	C	N	I	E	S	F	T					
01 000 69	Ajax				15	4.50	40		1	1	1		3	1	1	1	9		12		
02 000 67	Allston								1	1	1		3	2	1		9		12	F	
03 FFF 55	Atikokan	1400	1450	1210	25	5.00	15*16		1	2		2				6		7			
04 000 00	Aurora								1	1	1		3	1	1	1	9			F	
05 FFO 66	Aylmer		1500	1071	Nil	5.00	35		2	3	2		1	1	1	10				6	
06 DDD 60	Barrie	7800	8500	6000	Nil	4.50	85*105	Comp	1	1	1		3	1	1	1	9	L	11	5	
07 FEO 68	Bathurst		3000	1400	Nil	4.50	21	Comp	1	1	1	1	3	2	1		9		10	5	
08 JIH 67	Beardmore	350	250	80	85	5.00	3*7	B					2				2		12	F	
09 DCC 66	Belleville	14K	14K	8000	18	5.00	170	J					2				7		12	F	
10 000 70	Bolton				10	4.50			1	1	1	1	3	2	1		10		11		
11 000 67	Bowmanville								1	1	1		2		1	1	7		12		
12 DCC 65	Bramalea	12K	15K	5913	15	4.50	100	J	1	1	1	1	3	1	1	1	10	TW,L	20	20	
13 000 66	Brampton								1	1	1		1	1	1		6			F	
14 CBC 65	Brantford	19.5K	20.5K	12.8K	10	4.50	200*210	J	1	1	1	1	2	1	1		8	TW,L	12	12	
15 EEE 60	Brockville	5000	5000	3150	13	4.50			1	2			2	1	2		8	M			
16 000 66	Burlington								1	1	1	1	2	1	1	1	9	L		15	
17 FDD 70	Burlington	10K	10K	2000		4.50	350*550	B,C	1	1	1	1	1	1	1	1		L	12	7	
18 GGG 66	Campbellford	1000	1000	600	55	3.75	12	B,C,D	1				2	1			4			14	
19 HGO 58	Chapleau		700	450	5	5.00		B			1		1				2	L			
20 HOH 60	Chapleau	350		300	75	4.00	5*8	J	1	2			2	1			6		6	12	
21 ECD 67	Chatham		10.5K	4750	10	4.75		J	2	2	2	1	2				9		12	12	
22 000 00	Clinton																0				
23 000 66	Cobourg								2	2	2		2	1	1	1	11		21		
24 000 66	Cobourg								2	2	2		2	1	1		10		12	12	
25 FEE 63	Collingwood	3000	3000	2300	10	4.50	38	Comp	1	1	1		3	1			7	L	12	8	
26 DCC 57	Cornwall	12K	12.5K	9000	25	3.95	95*101	J	1	1			2	2	2	1	9			12	
27 GFF 66	DeepRiver	1200	1400	800	15	4.70	6*13	B,J					2	1	1		4		13	3	
28 FFO 56	Dryden		1400	1100	20	3.00		B		2			1	1			4		12	5	
29 000 62	Dubreuilville								1				1	1			3				
30 EDO 58	Dundas		6000	3700	Nil	5.00	35*45	B	1	1	1	1	1	1	1	1	8	L	20	2	
31 OCB 71	East York	30K	20K		15	4.50	150		1	1	1	1	2	1	1	1	9		20		
32 JOJ 57	Elliott Lake	34		34	Nil	Nil	2	Comp				1			1		2		2		
33 GRO 70	Elmira		1400	600	Nil	4.50		J	1	1	1	1	2	1	1	1	9			18	
34 FFF 67	Elora	2000	2000	1000	15	4.50	20*25	C,J	1	1	1		4	1	1	1	10	M	12	14	
35 000 66	Etobicoke								1	1	1	1	1	1	1		7			F	
36 DCC 62	Galt-Preston	16K	16K	8000	Nil	4.50	150*250	Comp	1	1	1	1	2	1	1	1	9		11	18	
37 FED 68	Georgetown	5750	5000	1700	10	4.50	40*46	C,J	1	1	1	1	2	1	1	1	9	TW,L	12	F	
38 GGG 60	Geraldton	1000	900	650	35	4.00		B	1				2				3		12	F	
39 III 63	Gore Bay	150	150	120	25	4.00	4*29	D			2				1		3		12	F	
40 GFF 63	Gravenhurst	1700	1600	850	19	4.95	12*17	Comp	1	1			3	1	1		7		8	5	

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k				CDN net				tot	local	cap	fm
		access	pot'	act'	fee	mo			A	C	N	E	B	F	T	E				
41 FEO 66	Grimsby	3500	1250		10	4.50	30*35	Comp	1	1	1	1	1	2	1	1	9		12	10
42 CCC 53	Guelph	17.2K	15K	13.7K	10	4.50	200*215	Comp	1	1	1	1	3	1	1	1	10	TW	12	21
43 IGH 59	Haileybury	500	600	200	15	3.75	4*7	Comp					2	2	1		5	L	.5	F
44 JHO 63	Haliburton		300	70	75	4.00		B			1		2				3		12	F
45 DCC 60	Hamilton	19K	19K	5000	9	4.00	150*160	J	1	2	2	1	2	2	1		11	TW,L	20	10
46 CBO 58	Hamilton	30K	41K	17K	nil	4.65		J,V	1	1	1	1	2	2	1	1	10		12	2
47 DOD 59	Hamilton	9000		9000	nil	5.00	75	C,J	1	1	1	1	1	2	1	1	9		20	F
48 DCC 57	Hamilton	12K	12.5K	8000	nil	5.00	35	B	1	1	1	1	1	2	1	1	9	TW,L	12	16
49 FEE 68	Hanover	3200	3500	1000	20	5.00	30*33	C,J		1	1		3	1	1	2	9	TW,L	12	15
50 FEF 63	Hawkesbury	2000	2600	1325	15	3.95	10*14	J		1	1		1	2	2		7		10	10
51 IHH 59	Hornepayne	350	300	225	35	4.00	5	D					2				2		12	
52 FOF 56	Huntsville	1500		1300	25	4.00	12	Comp		1	1		1	1	1		5	TW,L	6	3
53 EEO 57	Kirland Lake		4400	3160	20	3.00		B					2	1	1		4		12	
54 BBO 62	Kitchener		40K	30K	nil	4.50	150*300	J	1	1	1	1	2		2	1	1			18
55 OEE 68	Leamington	4000	3000		15	4.95	47	J	2	2	1	4	1	1			11		12	8
56 FFF 64	Lindsay	1600	2000	1000	25	5.00	25*35	Comp	1	1	1		1	1	1		6			10
57 CCC 52	London	22K	22.5K	17.5K	nil	5.00	300	J	2	2	2	1	1	1	1		10	TW,L	12	17
58 BBB 52	London	46K	49K	43K	nil	5.00	360*370	J	3	1	2	1	2	1			10	L	12	11
59 HHH 66	Madoc	420	400	315	25	5.00	6	Comp	1	2	3		1	1			8	L	12	F
60 GGG 59	Manitouwadge	650	650	500	50	3.00	5*8	B		1			1				2		2	
61 GGO 57	Marathon		700	650	50	2.50		B,D		1			1				2		3	
62 OOO 66	Markham Twp.								1	1	1	1	3	2	1		10			F
63 EEE 55	Midland	4980	5000	4600	10	4.50	72		1	1	1		3	1	2	1	10		12	14
64 JHO 63	Minden		300	25	75	4.00		B			1		3	1			5		12	F
65 EOD 56	Mississauga	6000		3000	10	5.50	31	B,C,J	1	1	1	1	2	1	1	1	9	TW,L	20	F
66 EDE 68	Mississauga	3000	10K	2500	10	4.50	30*35	C		1	1	1	2	2	1	1	9	TW,L	12	20
67 GFF 59	New Liskeard	1200	1100	600	15	3.75	10*13	Comp				1	1	1	1		4	TW	5	F
68 EDD 65	New Market	5500	5500	4500	10	4.50	80*90	J	1	1	1	1	3	1	1	1	10	TW,L	12	11
69 DCD 62	North Bay	7500	12K	5200	10	5.25	80	Comp		1	1		2	1	1	2	8	L	12	2
70 OOO 00	North York								1	1	1	1	2	2	1		9			
71 EDC 68	Oakville	13K	10K	4000	15	4.95	50*230	C,J	1	1	1	1	3	2	1		10	L	12	20
72 GFF 68	Orangeville	2400	1500	800	5	5.00	5*10	C	1	1	1		2	2	1	1	9		18	20
73 EED 63	Orillia	6500	5000	4600	nil	4.50	70*80	Comp	1	1	1		3	1	1	1	9	TW,L	11	5
74 CBC 66	Oshawa	18.4K	26K	11.5K	10	4.95	200*220	J	1	2	1	1	3	1	1	1	10	L	12	8
75 BBB 67	Ottawa E	46K	48K	31K	nil	5.00	350*385	Comp		2			2	1	2	1	8	L	12	12
76 BAA 64	Ottawa N	61K	65K	44.2K	nil	5.00	550*600	J		2			2	1	2	1	8	TW,L	12	11
77 OOO 65	Ottawa									2			1	1	2	1	7			
78 DDD 58	Owen Sound	8000	7200	5700	10	4.50	83	C	1	1			3	2	1	1	9	TW	12	11
79 PFO 62	Parry Sound		1500	1000	15	4.90	20	Comp	1	1	1		2	1	1		7	L	12	7
80 EED 67	Pembroke	7000	5000	2600	15	4.50	40*115	J					2	1	1		4	TW	12	4

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k					CDN net			tot	local	cap	fm	v
		access	pot'	act'	fee	mo			A	C	N	E	E	B	F	T					
81 CCC 56	Peterborough	17K	16.9K	14.2K	5	4.50	100	Comp	1	1	1		3	1	1	1	9	TW,L	10		
82 GGF 68	Picton	1400	1000	500	18	5.00	14*19	Comp	1	1	2	1	2	1		8	*TW	12	9		
83 JJJ 67	Rexdale	40	40	25	15	2.00	1*6	Comp	1	1	1		1	2	1	7		12	7		
84 DOO 66	Richmond Hill			7000			240		1	1	1	1	3	1	1	1	10	L		16	
85 JIG 68	Rockland	850	150	45	20	5.00	9	A			2		1	1	1	5		12			
86 DCB 66	St. Catherines	26K	24.7K	6500	10	4.50	240*260	Comp	2	1	1	1	1	2	1	1	11	TW,L	12	20	
87 GFF 65	St. Mary's	1500	1200	700	nil	5.00	14	B,C	1	2	2	1	1	1	1	10		12			
88 DDD 62	St. Thomas	9700	8000	7000	nil	5.00	105*110	C	2	3	2		1	1	1	10	TW,L	20	7		
89 DCC 68	Sarnia	15K	15.2K	9100	nil	5.00	150*175	C	1	1	2	1	1	1	1	9	TW	12			
90 DCC 61	Sault Ste. Marie	11K	18K	6700	10	3.95	110*180	J	1	1	2			1		5		12	6		
91 HHO 55	Schraiber		500	460	10	4.50		B	1	1			2			4		12	F		
92 FEE 68	Simcoe	3000	3000	1500	nil	5.00	35*43	B,C	1	2	2	1	1	1	1	9	TW,L	12	10		
93 GFO 66	Smiths Falls		2500	750					1	1	2		2	1	1	8					
94 OOO 66	Smiths Falls								1	2			2	1		6					
95 EDO 57	Stoney Creek		7000	3000	95	3.50	25*75	B,D	1	1	1		1	2	1	1	8		12	F	
96 DDO 62	Stratford		8200	6000	nil	4.50	40*100	Comp	1	1	1	1	2	2	1	1	10		12	F	
97 OOO 00	Strathroy															0					
98 OOO 58	Swastika												1			1					
99 GGO 55	Terrace Bay		1000	750	85	3.00		B	1	1			1			3		3			
100 CCC 60	Thunder Bay	24.7K	28.3K	22.2K	10	4.95	200	J	1	2			1			4	L	12	10		
101 FEF 68	Tillsonburg	2000	2900	1400	10	5.00	18	J	2	2	2	1	1	2	1	11	L	12	6		
102 OED 66	Timmins	8000	4000		15	5.50	16*36	C			1		1	1		3		12	2		
103 OOO 00	Timmins												1	1	1	3				F	
104 CAC 68	Toronto	23K	53.9K	17.8K	15	4.50	200	J	1	1	1	1	3	2	1	1	11	TW,L	20		
105 GCE 67	Toronto	2700	15K	900	15	4.50	20*80	C	1	1	1	1	2	1	1	1	9		10	13	
106 BBA 68	Toronto	70K	50K	28K	10	4.50	418*500	C	1	1	1	1	2	2	1	1	10	TW	12	20	
107 FEE 61	Toronto	3700	5000	2400	nil		63*90	Comp	1	1	1		1	2	1	1	8		10	F	
108 CAA 68	Toronto	63K	65K	20K	15	4.50	400	J	1	1	1	1	3	2	1	1	11	TW,L	20	20	
109 GCF 70	Toronto	1500	24K	500	15	4.50	10*220	V	1	1	1	1	3	1	1	1	10		21	11	
110 BAA 67	Toronto	70K	55K	36K	nil	4.50	400	C	1	1	1	1	3	2	1	1	11	L	20	10	
111 OOO 71	Toronto								1	1	1	1	3	2	1	1	11	L	27	F	
112 GGF 58	Wawa	1200	1000	800	25	5.00		B,J			2		1	1		4					
113 DDC 63	Woodstock	10.7K	8000	6500	nil	5.00	141*145	J	1	2	1		1	2	1	1	9	L	12	15	

ONTARIO

CATV SIGNAL SOURCES STATIONS

01 000 69
 02 000 67
 03 FFF 55
 04 000 00
 05 FFO 66
 06 DDD 60
 07 FEO 68
 08 JIH 67
 09 DCC 66
 10 000 70
 11 000 67
 12 DCC 65
 13 000 66
 14 CBC 65
 15 EEE 60
 16 000 66
 17 FDD 70
 18 GGG 66
 19 HGO 58
 20 HOH 60
 21 ECD 67
 22 000 00
 23 000 66
 24 000 66
 25 FEE 63
 26 DCC 57
 27 GFF 66
 28 FFO 56
 29 000 62
 30 EDO 58
 31 OCB 71
 32 JOJ 57
 33 GFO 70
 34 FFF 67
 35 000 66
 36 DCC 62
 37 FED 68
 38 GGG 60
 39 III 63
 40 GFF 63

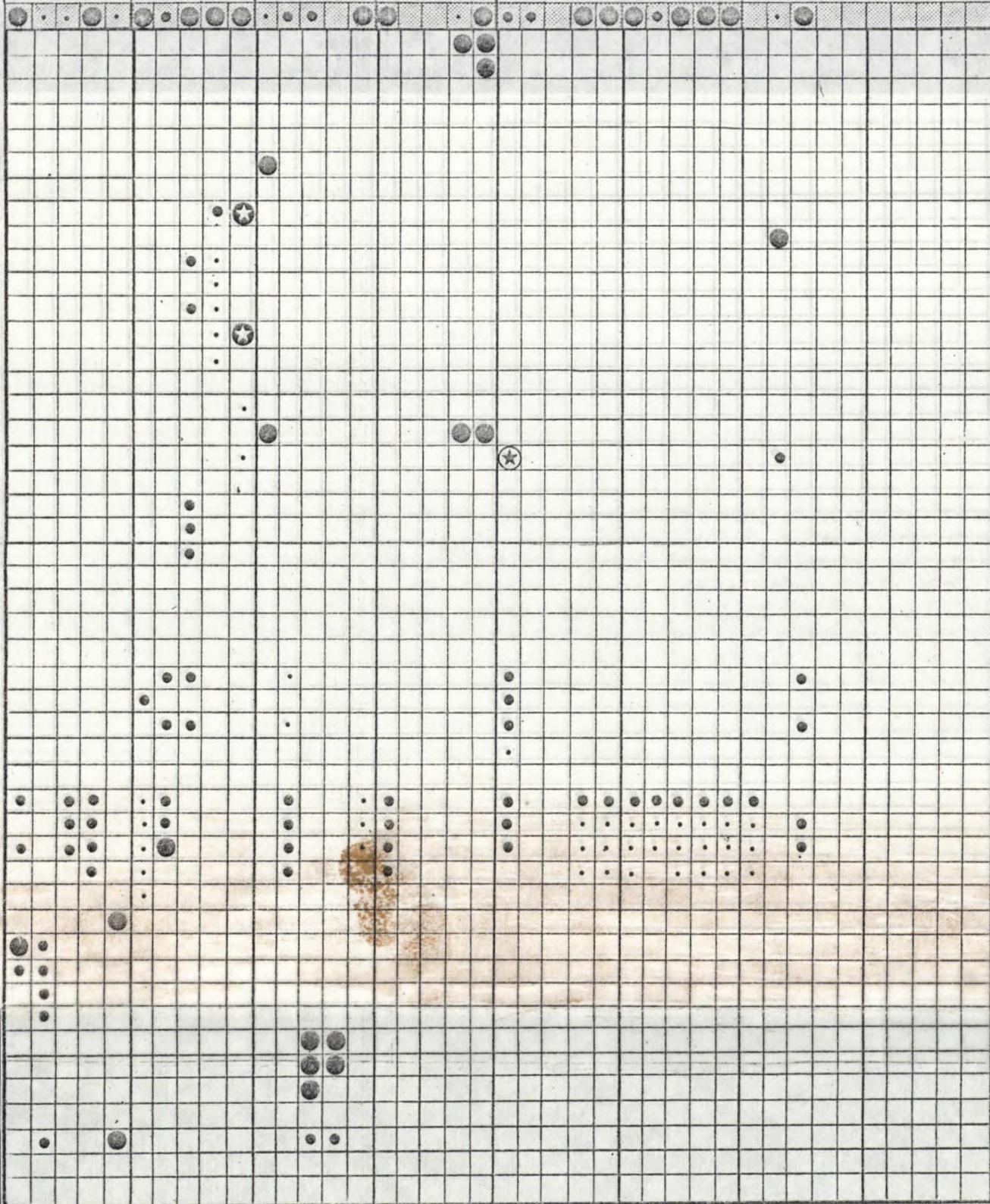
N	KDAL	3	DULUTH	wis. Minn.
N	WDSM	6		
E	WDSE	8		
A	WDIO	10		
N	WAEQ	12	RHINELANDER	michigan
N	WNEM	5	BAY CITY	
J	WTOM	4	CHEBOYGAN	
C	WJBK	2	DETROIT	
N	WWJ	4		
A	WXYZ	7		
I	WKBD	50		
E	WTVS	56		
I	WXON	62		
A	WJRT	12	FLINT	
C	WLUC	6	MARQUETTE	
I	WWUP	10	S. S. MARIE	
N	WKYC	3	CLEVELAND	ohio
A	WEWS	5		
C	WJW	8		
E	WVIZ	25		
I	WKBF	61		
I	WUAB	43	LORAIN	
N	WICV	12	ERIE	penn.
A	WJET	24		
C	WSEE	35		
E	WQLN	54		
N	WGR	2	BUFFALO	new york
C	WBEN	4		
A	WKBW	7		
E	WNED	17		
I	WUTV	29		
N	WPTZ	5	PLATTSBURGH	
C	WROC	8	ROCHESTER	
A	WHYC	10		
I	WOKR	13		
N	WSYR	3	SYRACUSE	
C	WHEN	5		
A	WNYS	9		
E	WCNY	24		
N	WWNY	7	WATERTOWN	
C	WCAX	3	BURLINGTON	vt.



81 CCC 56
82 GGF 68
83 JJJ 67
84 D00 66
85 JIG 68
86 DCB 66
87 GFF 65
88 DDD 62
89 DCC 68
90 DCC 61
91 HHO 55
92 FEE 68
93 GFO 66
94 000 66
95 ED0 57
96 DD0 62
97 000 00
98 000 58
99 GG0 55
100 CCC 60
101 FEF 68
102 OED 66
103 000 00
104 CAC 68
105 GCE 67
106 BBA 68
107 FEE 61
108 CAA 68
109 GCF 70
110 BAA 67
111 000 71
112 GGF 58
113 DDC 63

ONTARIO

CATV SIGNAL SOURCES U.S. STATIONS



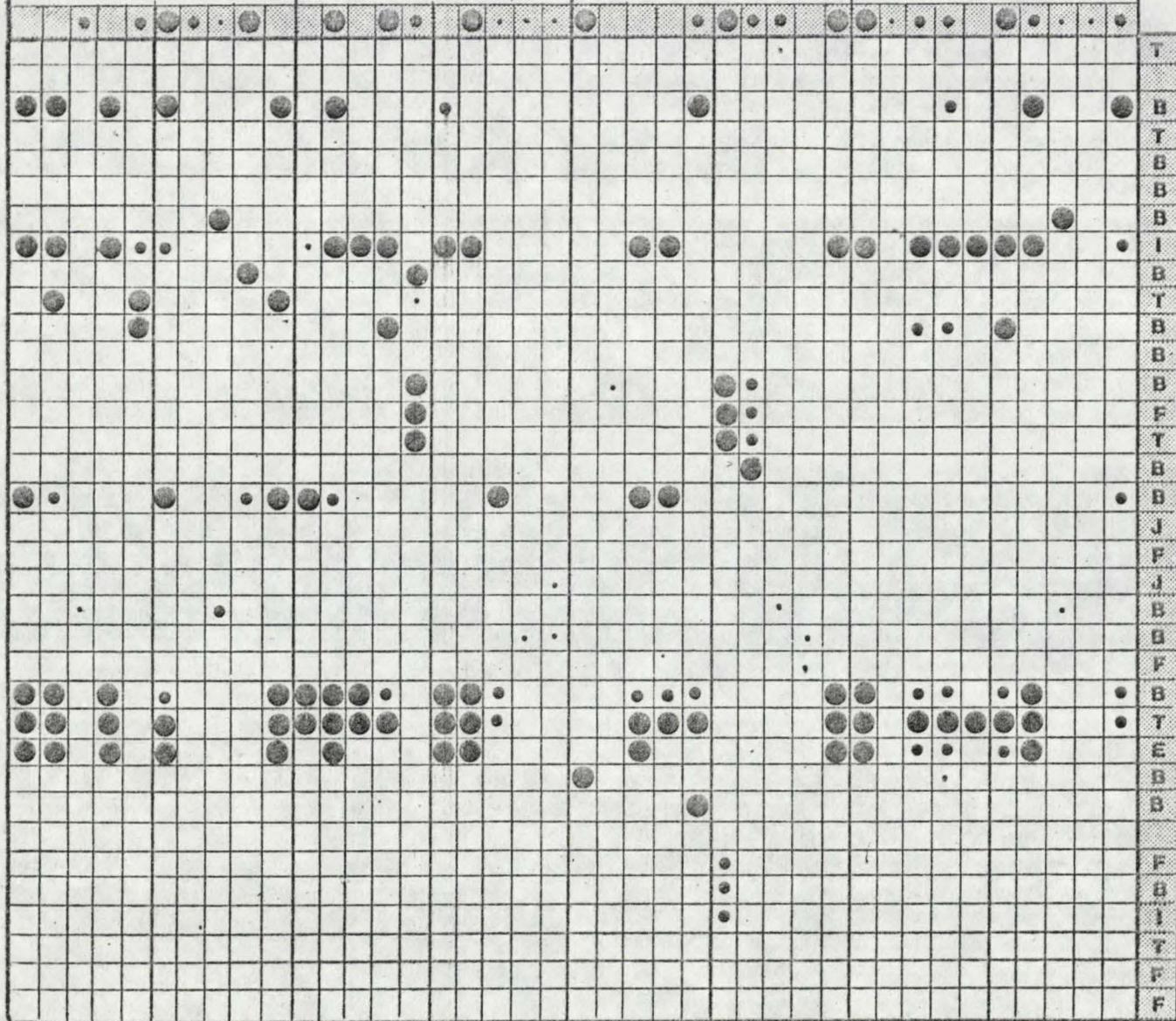
N	KDAL	3	DULUTH
N	WDSM	6	
E	WDSE	8	
A	WDIO	10	
N	WAE0	12	RHINELANDER
H	WNEM	5	BAY CITY
J	WTOM	4	CHEBOYGAN
C	WJBK	2	DETROIT
N	WWJ	4	
A	WXYZ	7	
I	WKBD	50	
E	WTVS	56	
I	WXON	62	
A	WJRT	12	FLINT
C	WLUC	6	MARQUETTE
I	WWUP	10	S. S. MARIE
N	WKYC	3	CLEVELAND
A	WEWS	5	
C	WJW	8	
E	WVIZ	25	
I	WKBF	61	
I	WUAB	43	LORAIN
N	WICV	12	ERIE
A	WJET	24	
C	WSEE	35	
E	WQLN	54	
N	WGR	2	BUFFALO
C	WBEN	4	
A	WKBW	7	
E	WNED	17	
I	WUTV	29	
N	WPTZ	5	PLATTSBURGH
N	WROC	8	ROCHESTER
C	WHEC	10	
A	WOKR	13	
E	WXXI	21	
N	WSYR	3	SYRACUSE
C	WHEN	5	
A	WNYS	9	
E	WCNY	24	
N	WWNY	7	WATERTOWN
C	WCAX	3	BURLINGTON

vt. new york penn. ohio michigan wis. minn.



ONTARIO
CATV SIGNAL SOURCES

01 000 69
02 000 67
03 FFF 55
04 000 00
05 FFO 66
06 DDD 60
07 FEO 68
08 JIH 67
09 DCC 66
10 000 70
11 000 67
12 DCC 65
13 000 66
14 CBC 65
15 EEE 60
16 000 66
17 FDD 70
18 GGG 66
19 HGO 58
20 HOH 60
21 ECD 67
22 000 00
23 000 66
24 000 66
25 FEE 63
26 DCC 57
27 GFF 66
28 FFO 56
29 000 62
30 EDO 58
31 OCB 71
32 JOJ 57
33 GFO 70
34 FFF 67
35 000 66
36 DCC 62
37 FED 68
38 GGG 60
39 III 63
40 GFF 63



T	CJAY	7	WINNIPEG
B	CKVR	3	BARRIE
T	CJSS	8	CORNWALL
B	CBWDT	9	DRYDEN
B	CBWCT	5	F. FRANCES
B	CBLAT	13	GERALDTON
I	CHCH	11	HAMILTON
B	CKWS	11	KINGSTON
T	CKCO	13	KITCHENER
B	CFPL	10	LONDON
B	CFCH	10	NORTH BAY
B	CBOT	4	OTTAWA
F	CBOFT	9	
T	CJOH	13	
B	CHOV	5	PEMBROKE
B	CHEX	12	PETERBORO
J	CJIC	2	S.S. MARIE
F	CBFST	7	STURGEON F.
J	CKSO	5	SUDBURY
B	CKPR	2	THUNDER BAY
B	CFCL	6	TIMMINS
F	CBFOT	9	
B	CBLT	6	TORONTO
T	CFTO	9	
E	CICA		
B	CKLW	9	WINDSOR
B	CKNX	8	WINGHAM
F	CBFT	2	MONTREAL
B	CBMT	6	
I	CFTM	10	
T	CFCF	12	
F	CKRN	4	ROUYN
F	CHLT	7	SHERBROOKE

man.
ontario
quebec



source: ASDA/TVF

N B

Distance ● Close
Notation ● Distant
Reversed • Remote

P 1006 / D.O.C.

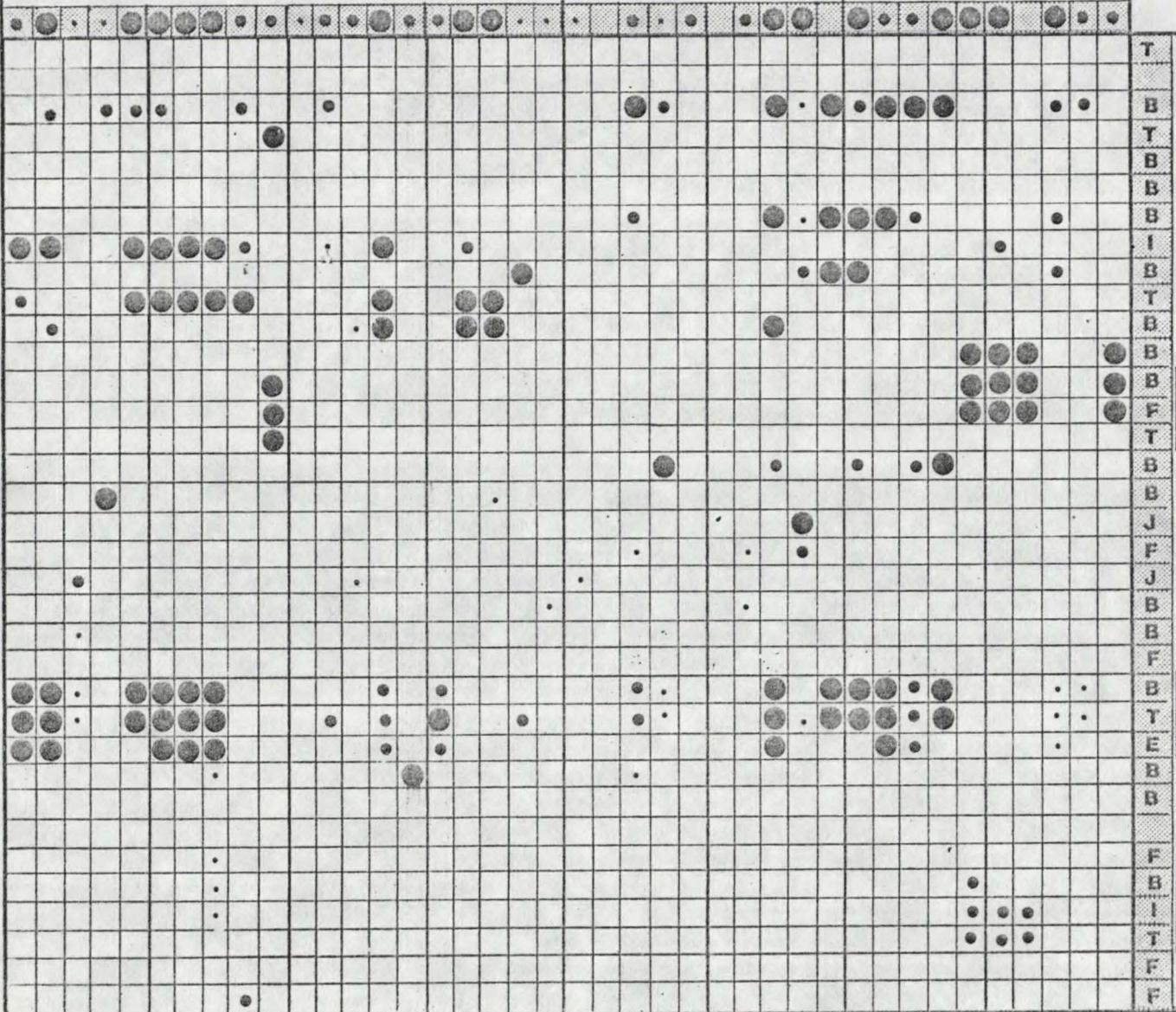
6.53

ONTARIO

CATV SIGNAL SOURCES

CANADA

41 FEO 66
 42 CCC 53
 43 IGH 59
 44 JHO 63
 45 DCC 60
 46 CBO 58
 47 DOD 59
 48 DCC 57
 49 FEE 68
 50 FEF 63
 51 IHH 59
 52 FOF 56
 53 EEO 57
 54 BBO 62
 55 OEE 68
 56 FFF 64
 57 CCC 52
 58 BBB 52
 59 HHH 66
 60 GGG 59
 61 EGO 57
 62 OOO 66
 63 EEE 55
 64 JHO 63
 65 EOD 56
 66 EDE 68
 67 GFF 59
 68 EDD 65
 69 DCD 62
 70 OOO 00
 71 EDC 68
 72 GFF 68
 73 EED 63
 74 CBC 66
 75 BBB 67
 76 BAA 64
 77 OOO 65
 78 DDD 58
 79 FFO 62
 80 EED 67



T	CJAY	7 WINNIPEG
B	CKVR	3 BARRIE
T	CJSS	8 CORNWALL
B	CBWDT	9 DRYDEN
B	CBWCT	5 F. FRANCES
B	CBLAT	13 GERALDTON
I	CHCH	11 HAMILTON
B	CKWS	11 KINGSTON
T	CKCO	13 KITCHENER
B	CFPL	10 LONDON
B	CFCH	10 NORTH BAY
B	CBOT	4 OTTAWA
F	CBOFT	9
T	CJOH	13
B	CHOV	5 PEMBROKE
B	CHEX	12 PETERBORO
J	CJIC	2 S.S.MARIE
F	CBFST	7 STURGEON F.
J	CKSO	5 SUDBURY
B	CKPR	2 THUNDER BAY
B	CFCL	6 TIMMINS
F	CBFOT	9
B	CBLT	6 TORONTO
T	CFTO	9
E	CICA	19
B	CKLW	9 WINDSOR
B	CKNX	8 WINGHAM
F	CBFT	2 MONTREAL
B	CBMT	6
I	CFTM	10
T	CFCF	12
F	CKRN	4 ROUYN
F	CHLT	7 SHERBROOKE

man. ontario quebec



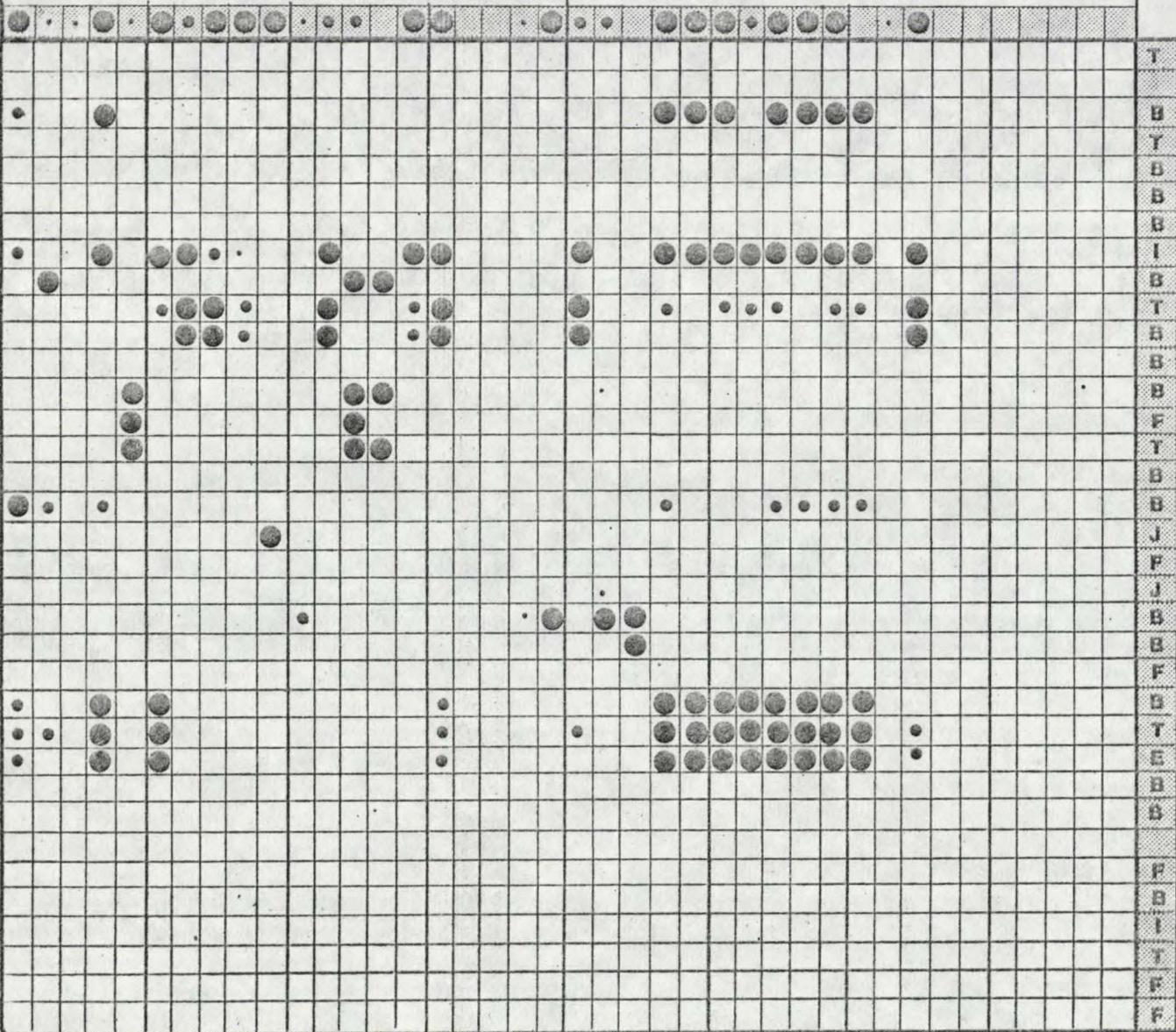
source: ASDA/TV

N B

Distance ● Close
 Notation ● Distant
 Reversed ● Remote

81 CCC 56
 82 GGF 68
 83 JJJ 67
 84 D00 66
 85 JIG 68
 86 DCB 66
 87 GFF 65
 88 DDD 62
 89 DCC 68
 90 DCC 61
 91 HHO 55
 92 FEE 68
 93 GFO 66
 94 000 66
 95 EDO 57
 96 DDO 62
 97 000 00
 98 000 58
 99 GGO 55
 100 CCC 60
 101 FEF 68
 102 OED 66
 103 000 00
 104 CAC 68
 105 GCE 67
 106 BBA 68
 107 FEE 61
 108 CAA 68
 109 GCF 70
 110 BAA 67
 111 000 71
 112 GGF 58
 113 DDC 63

ONTARIO
 CATV SIGNAL SOURCES



- T CJAY 7 WINNIPEG
- B CKVR 3 BARRIE
- T CJSS 8 CORNWALL
- B CBWDT 9 DRYDEN
- B CBWCT 5 F. FRANCES
- B CBLAT 13 GERALDTON
- I CHCH 11 HAMILTON
- B CKWS 11 KINGSTON
- T CKCO 13 KITCHENER
- B CFPL 10 LONDON
- B CFCH 10 NORTH BAY
- B CBOT 4 OTTAWA
- F CBOFT 9
- T CJOH 13
- B CHOV 5 PEMBROKE
- B CHEX 12 PETERBORO
- J CJIC 2 S.S. MARIE
- F CBFST 7 STURGEON F.
- J CKSO 5 SUDBURY
- B CKPR 2 THUNDER BAY
- B CFCL 6 TIMMINS
- F CBFOT 9
- B CBLT 6 TORONTO
- T CFTO 9
- E CICA
- B CKLW 9 WINDSOR
- B CKNX 8 WINGHAM
- F CBFT 2 MONTREAL
- B CBMT 6
- I CFTM 10
- T CFCF 12
- F CKRN 4 ROUYN
- F CHLT 7 SHERBROOKE

man.
ontario
quebec



source: ASDA/TVF

N.B.

Distance ● Close
 Notation • Distant
 Reversed • Remote

P 1006/D.O.C.

6.55

ONTARIO

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.
Acton	5.0 0	01.	Bracebridge	6.9 0	.10
Ajax	12.5 ①	.01	Bradford	3.4 0	
Alexandria	3.2 0		Brampton	41.2 ①	13.11
Alfred	1.2		Brantford	64.4 ①	
Alliston	3.2 0		Bridgeport	2.4	
Almonte	3.7 0		Brighton	3.0 0	
Amherstburg	5.2 0		Brockville	19.8 ①	15.13
Arnprior	6.0 0		Burlington	87.0 ①	16.14
Arthur	1.4		Caledonia	3.2 0	
Athens	1.1		Campbellford	3.5 0	18.17
Aurora	13.6 ①	04.03	Cannington	1.1	
Aylmer	4.8 0	05.04	Capreol	3.8 0	
Ayr	1.3		Cardinal	1.9	
Bancroft	2.3		Carleton Place	5.0 0	
Barrie	27.7 ①	06.05	Casselman	1.3	
Barry's Bay	1.4		Cayuga	1.1	
Beaverton	1.5		Chalk River	1.1	
Beeton	1.1		Chatham	35.3 ①	21.20
Belle River	2.9 0		Chesley	1.7	
Belleville	35.1 ①	09.08	Chesterville	1.3	
Blenheim	3.5 0		Clinton	3.2 0	22.
Blind River	3.5 0		Cobalt	2.2	
Bobcaygeon	1.5		Cobourg	11.3 ①	23.21
Bolton	3.0 0	10.09	Cochrane	5.0 0	
Bowmanville	8.9 0	11.70	Colborne	1.6	

ONTARIO

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Collingwood	9.8 0	25.22	Fort Erie	23.1 0	
Coniston	2.9 0		Fort Frances	9.9 0	
Copper Cliff	4.1 0		Frankford	1.9	
Cornwall	47.1 0	26.23	Galt	38.9 0	36.
Deep River	5.7 0	27.24	Gananoque	5.2 0	
Delhi	3.9 0		Georgetown	17.1 0	37.28
Deseronto	1.9		Geraldton	3.2 0	38.29
Dresden	2.4		Glencoe	1.4	
Dryden	6.9 0	28.25	Goderich	6.8 0	
Dundalk	1.0		Gravenhurst	7.1 0	40.31
Dundas	17.2 0	30.26	Grimsby	15.8 0	41.32
Dunnville	5.8 0		Guelph	60.1 0	42.33
Durham	2.4		Hagersville	2.3	
Eganville	1.4		Haileybury	5.3 0	43.34
Elmira	4.7 0	33.	Hamilton	309.2 0	45.36
Elmvale	1.1		Hanover	5.1 0	49.41
Elora	1.9	.27	Harriston	1.8	
Englehart	1.7		Harrow	2.0	
Erin	1.4		Havelock	1.2	
Espanola	6.0 0		Hawkesbury	9.3 0	50.42
Essex	4.0 0		Hearst	3.5 0	
Exeter	3.4 0		Hespeler	6.3 0	
Fenelon Falls	1.6		Huntsville	9.8 0	52.44
Fergus	5.4 0	.27	Ingersoll	7.8 0	
Forest	2.4		Iroquois	1.2	

ONTARIO

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.
Iroquois Falls	7.3	0	Massey	1.3	
Kapuskasing	12.8	⊙	Mattawa	2.9	o
Keewatin	2.1		Meaford	4.0	o .73
Kemptville	2.4		Midland	11.0	⊙ 63.56
Kenora	11.0	⊙ .45	Milton	7.0	0 71.
Kincardine	3.2	o .46	Milverton	1.2	
Kingston	59.0	⊙	* Mississauga	156.1	⊙ .58
Kingsville	4.1	o .49	Mitchell	2.5	o
Kitchener	111.8	⊙ 54.48	Morrisburg	2.1	
Lakefield	2.2		Mount Forest	3.0	o
Leamington	10.4	⊙ .49	Napanee	4.6	o
Levack	2.9	o	Newcastle	1.9	
Lincoln	14.2	⊙	New Hamburg	3.0	o
Lindsay	12.7	⊙ .50	New Liskeard	5.5	0 67.64
Listowel	4.7	o	Newmarket	18.9	⊙ 68.65
Little Current	1.6		Niagara Falls	67.2	⊙ 69.
Lively	3.0	o	Niagara	12.6	⊙
London	223.2	⊙ 57.51	North Bay	49.2	⊙ .66
L'Orignal	1.4		Norwich	1.8	
Lucan	1.2		Norwood	1.2	
Lucknow	1.0		Oakville	61.5	⊙ 71.67
Madoc	1.4	59.53	Orangeville	8.1	0 72.68
Markdale	1.2		Orillia	24.0	⊙ 73.69
Markham	36.7	⊙ 62.	Oshawa	91.6	⊙ 74.70
Marmora	1.4		* Ottawa	302.3	⊙ 75.71

ONTARIO

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Owen Sound	18.5	⊙ 78.73	Prescott	5.2	0
Palmerston	1.9		Preston	16.7	⊙
Paris	6.5	0 .12	Rainy River	1.2	
Parkhill	1.2		Renfrew	9.2	0
Parry Sound	5.8	0 79.74	Richmond	2.1	
Pelham	10.0	⊙	Richmond Hill	32.4	⊙ 84.78
Pembroke	16.5	⊙ 80.75	Ridgetown	2.8	o
Penetanguishene	5.5	0 63.56	Rockcliffe Park	2.1	
Perth	5.5	0	Rockland	3.6	o 85.79
Petawawa	5.8	0 .75	Rodney	1.0	
Peterborough	58.1	⊙ 81.76	St. Catharines	109.7	⊙ 86.85
Petrolia	4.0	o	St. Clair Beach	2.0	
Pickering	2.5	o	St. Mary's	4.7	o 87.86
Picton	4.9	o 82.77	St. Thomas	25.5	⊙ 88.87
Point Edward	2.8	o	Sarnia	57.6	⊙ 89.
Port Colborne	21.4	⊙	Sault Ste. Marie	80.3	⊙ 90.81
Port Credit	9.4	0	Seaforth	2.1	
Port Dover	3.4	o	Shelburne	1.8	
Port Elgin	2.9	o	Simcoe	10.8	⊙ 92.83
Port Erie	23.1	⊙	Sioux Lookout	2.5	o
Port Hope	8.9	0	Smiths Falls	9.6	0 94.84
Port McNicoll	1.5		Smooth Rock Falls	1.2	
Port Perry	3.0	o	Southampton	2.0	
Port Stanley	1.7		South River	1.1	
Powassan	1.2		Stayner	1.9	

ONTARIO

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Stirling	1.5		Vaughan	15.9	⊙
Stittsville	2.0		Victoria Harbour	1.2	
Stoney Creek	8.4	0 95.87	Walkerton	4.5	o 49.
Stratford	24.5	⊙ 96.48	Wallaceburg	10.6	⊙ .105
Strathroy	6.6	0 97.88	Wasaga Beach	1.9	
Streetsville	6.8	0	Waterdown	2.1	
Sturgeon Falls	6.7	0	Waterford	2.4	
Sudbury	90.5	⊙	Waterloo	36.7	⊙ 54.
Tavistock	1.5		Watford	1.4	
Tecumseh	5.2	0	Welland	44.4	⊙
Thamesville	1.0		West Lorne	1.1	
Thessalon	1.9		Wheatley	1.7	
Thornbury	1.2		Whitby	25.3	⊙ 74.
Thorold	15.1	⊙	Whitchurch-Stouff.	11.3	⊙
Thunder Bay	108.4	⊙ .92	Warton	2.2	
Tilbury	3.6	o	Winchester	1.6	
Tillsonburg	6.6	0 101.93	Windsor	203.3	⊙
Timmins	28.5	⊙ 102	Wingham	2.9	o
Toronto	712.8	⊙ 104.94	Woodstock	26.2	⊙ 113.108
Tottenham	1.6		Wyoming	1.3	
Trenton	14.6	⊙ .08			
Tweed	1.7				
Uxbridge	3.1	o .104			
Vanier	22.5	⊙			
Vankleek Hill	1.7				



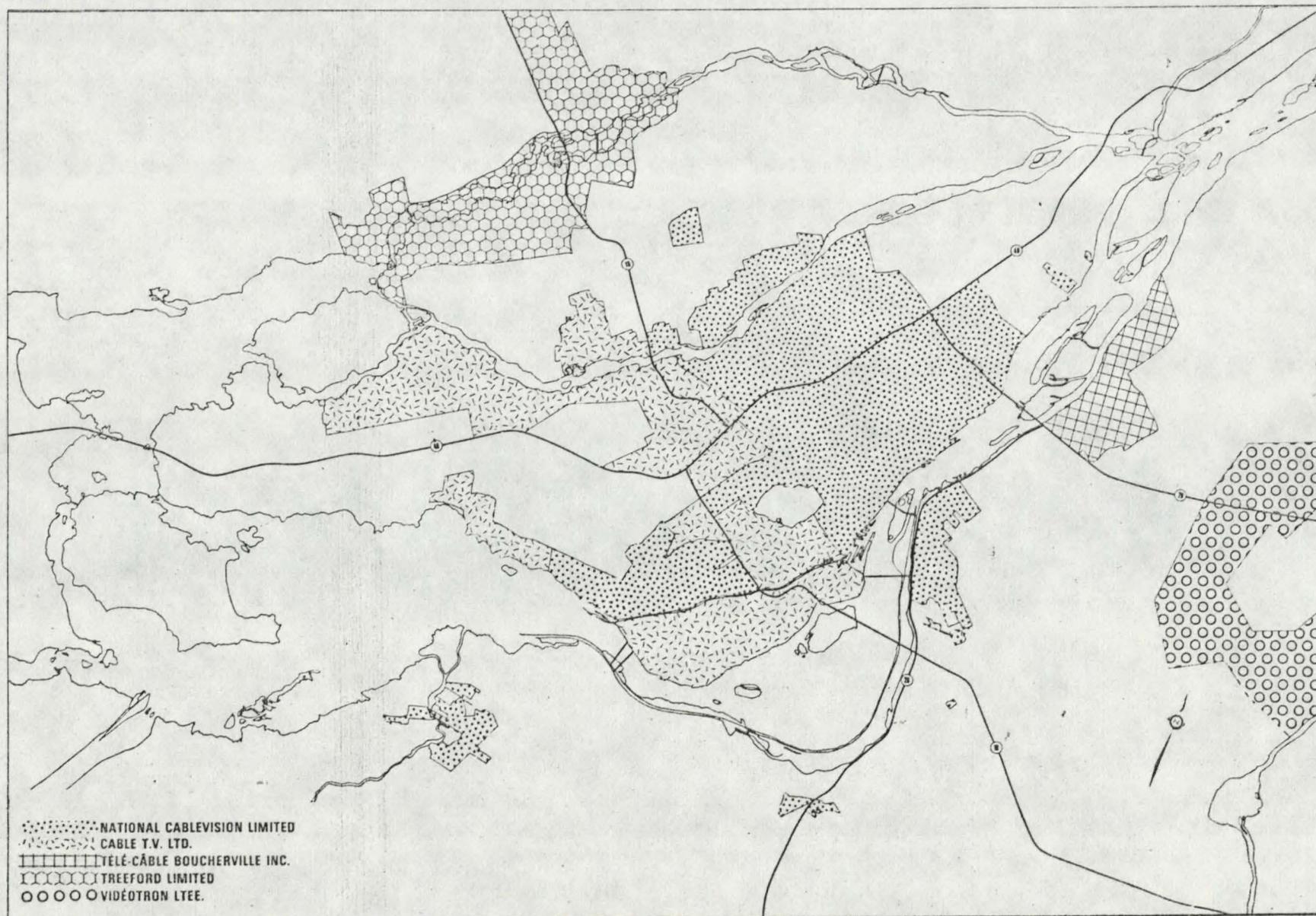
CATV SYSTEMS
Quebec
and their TV signal
sources in US



source ASDA



METROPOLITAN MONTREAL CABLEVISION SYSTEMS



Source: CRTC

Quebec	
01 Amos	Dufresne, Edouard
02 Anse St-Jean	Masson, Normande L.
03 Asbestos	Cablevision Inc.
04 Ascot Corner & Ascot Nord	Paré, Normand
05 Ascot Co.	National Cablevision Limited
06 Ayerscliffe	Transvision Magog Inc.
07 Aylmer - Hull - Lucerne	Laurentian Cablevision Limited.
08 Bagotville	J. H. Duchesne Limitée
09 Bagotville	Video Dery Limitée
10 Baie St-Paul	Charlevoix Video Inc.
11 Baie-Comeau	Beaudoin, Isidore
12 Beauceville	Beauce Distribution TV Inc.
13 Beloeil, MacMasterville & St. Bruno	Videotron Limitée
14 Bernierville	Drolet, J. Gilles
15 Black Lake	Black Lake Telediffusion Inc.
16 Boucherville	Télé câble Boucherville Inc.
17 Bromptonville	Télévision Communautaire de Bromptonville Inc.
18 Buckingham-Masson	Videotron Limitée
19 Cap-de-la-Madeleine	National Cablevision Limited
20 Chibougamau-Chapais	Gagnon T.V. Limitée
21 Coaticook	Transvision (Coaticook) Inc.
22 Coleraine	Coleraine Video Inc.
23 Cookshire	Transvision Cookshire Inc.
24 Courcelles	Fortier, Jean-Guy
25 Cowansville	Transvision Cowansville Inc.
26 Danville	Transvision de Danville Inc.
27 Disraeli	Transvision Disraeli Inc.
28 Dolbeau	Dolbeau T.V. Service Inc.
29 Drummondville	T.V. Drummond Inc.
30 East Angus	Transvision (East Angus) Inc.
31 East Broughton	Nadeau, Louis-Marie
32 Ferme Neuve	Ouellette, Roger
33 Gatineau - Templeton	Videotron Limitée
34 Girardville	Picard, Alfred
35 Granby	Transvision Granby, Inc.
36 Grand'Mère and Ste-Flore	Jules Matteau Television Inc.
37 Hermitage Club, near Magog	Transvision Magog, Inc.
38 L'Annonciation	Godard, Gilles
39 La Belle	Paquet, Clément
40 La Guadeloupe and St-Evariste	La Guadeloupe Télévision Inc.
41 La Patrie	La Patrie Video Inc.
42 La Pocatière	Chouinard Télévision Limitée
43 La Tuque	Electro-Vision (La Tuque) Inc.
44 Lac-aux-Sables,	Buisson, Gilles
45 Portneuf Co.	
47 Lac Bouchette	De Launier, Louis-Georges
48 Lac Carré	
49 Lac Édouard	
50 Lac Etchemin	
51 Lachute	
52 Laval - Ste. Thérèse	Treford Limited
53 Lebel-sur-Quévillon	Dufresne, Édouard
54 Lennoxville	Lennoxville Transvision Inc.
55 Magog	Transvision Magog, Inc.
56 Malartic	Paul Télévision Service Limitée
57 Maniwaki	Maniwaki Télévision Limitée
58 Marsoui-Gaspé Nord	A. Couturier & Fils Limitée
59 Matagami	Club TV de Matagami
60 Mégantic	Latulippe, Henri
61 Moisie (CFB)	Davis, Lt. Col. G.S.
62 Mont Laurier	Videotron Limitée
63 Mont St. Pierre	Cloutier, Omer
64 Mont Tremblant	Filjon, Denis
65 Montreal	National Cablevision Limited
66 Montreal	Cable-TV Limited
67 Montreal (A)	National Cablevision Limited
68 Montreal (B)	National Cablevision Limited
69 Montreal (C)	National Cablevision Limited
70 Montreal (Châteauguay)	National Cablevision Limited
71 Nicolet	Decibel, Enrg.
72 Nicolet (Christ-Roy Hosp.)	Dumoulin, Réjean
73 Normandin	Picard, Alfred
74 North Hatley	North Hatley Transvision Inc.
75 Notre-Dame-de-la-Dorée	Gagnon TV Limitée
76 Notre-Dame-des-Anges	Martel & Frères T.V. Enrg.
77 Petit Saguenay	Masson, Normande L.
78 Plessisville	Claire-Vue, Inc.
79 Pointe-au-Pic-Clermont	Télé-Câble Charlevoix, Inc.
80 Port Alfred	Video Dery, Limitée
81 Princeville - Arthabasca	Mercier, Normand
82 Quebec	Télé-Câble de Québec, Inc.
83 Richmond	T.V. Cable (Richmond) Inc.
84 Rivière à Pierre, Portneuf Co.	Benoit, Édouard
85 Rivière à Claude	Cloutier, Omer
86 Rivière-du-Loup	CKRT-TV Limitée
87 Robertsonville	St. Laurent, Réal
89 Rock Island	Border Community TV Limited
90 Rouyn-Noranda	Paul Télévision Service Limitée
91 Sawyerville	Transvision Sawyerville, Inc.
92 Sept-Iles	La Compagnie de Télévision de Sept-Iles Limitée
93 Shawinigan	La Belle Vision Québec Inc.
94 Sherbrooke	National Cablevision Limited
95 Sorel and Tracy	Sorel-O-Vision, Inc.
96 St. Benoît Labre	Rancourt, Victor
97 St. Benjamin	Caron, Roger
98 St. Côme, Beauce Co.	Kennebec Video Enrg.
99 St. Côme, Joliette Co.	Labelle, Gérald
100 St. Donat, Montcalm Co.	Coutu, Richard

101	St. Félicien-de-Bellevue	Gagnon T.V. Limitée
102	St. Gédéon	Beauce Video Limitée
103	St. Georges est et ouest	Beauce Video Limitée
104	St. Georges Ouest-Hospital	Coratel Services Limited
105	St. Grégoire	Rouleau, Théo
106	St. Honoré	Fortier, Jean-Guy
107	St. Hyacinthe	Radio St-Hyacinthe Limitée
108	St. Jérôme - Lafontaine	Videotron Limitée
109	St. Joseph	Bernard, René
110	St. Jovite	Filion, Aquila
111	St. Ludger	Rancourt, Victor
112	St. Martin	Beauce Video Limitée
113	St. Michel des Saints	Rondeau, Fernand
114	St. Pacôme	Chouinard Télévision Limitée
115	St. Pamphile	Chouinard, Guy
116	St. Pascal	Paradis, Louis-Georges
117	St. Prosper	St-Prosper Télévision Enrg.
118	St. Raymond	Video Dery Limitée
119	St. Théophile	Rancourt, Victor
120	St. Thomas Didyme	Picard, Alfred
121	St. Tite	J. Bergeron & Frère Limitée
122	St. Urbain	Charlevoix Video Inc.
123	St. Zénon	Rondeau, Fernand
124	Ste. Adèle	Guesthier, Maurice
125	Ste. Agathe-des-Monts	Cable Laurentide Limitée
126	Ste. Angèle-de-Laval	Deshaies, Venant
127	Ste. Germaine Station	Parent, Marcel
128	Ste. Justine, Dorchester Co.	Tanguay, Justin
129	Ste. Marie, Beauce Co.	Côté, Léo-Paul
130	Ste. Marthe	Société-Télévision Ste-Marthe Enrg.
131	Ste. Thècle	St-Amand, Reynald
132	Thetford Mines and Thetford sud	Thetford Video, Inc.
133	Touraine	Laurentian Cablevision Limited
134	Trois-Rivières	La Belle Vision Québec Limitée
135	Val d'Or et Bourlamaque	Paul Télévision Service Limitée
136	Valley Junction, Beauce Co.	Côté, Léo-Paul
137	Valleyfield	Valleyfield Transvision Inc.
138	Victoriaville - Arthabaska	National Cablevision Limited
139	Ville-de-Laval	Cable TV Limited
140	Ville-de-Laval	National Cablevision Limited
141	Warwick	Beaudet, Marcel
142	Waterloo and area	Beloeil Transvision Inc.
143	Waterville	Paré, Normand
144	Weedon	Lisée, Bertrand
145	Windsor-Greenlay	Transvision Windsor, Inc.
146	Woburn	Latulippe, Henri

code	location	subscribers			rates		plant miles	equ't mfr	US netw'k			CDN net			tot	local	cap	fm	v
		access	pot'	lact'	fee	mo			A	C	N	E	B	F					
01 FFG 57	Amos	1500	2500	2000	10	4.00	85	B,C			1	2		3		12	4		
02 IHH 57	Anse St. Jean	350	325	225	nil	4.00	7	E				2		2		5			
03 FFO 54	Asbestos		2500	1800	15	3.50		E	1	1	1	1	2	1	1	8			
04 III 63	Ayer's Cliff	250	200	113	15	5.00	4*5	A	1	1	1	1	2	1	1	8	12	8	
05 CCC 62	Aylmer	20K	17K	11.5K	nil	4.85	110*115	V			2	2	1	2	1	8	12	F	
06 GGO 56	Bagotville		1000	600	30	3.50		G,V				3		3	TW,LL	12	3		
07 HOG 54	Bagotville	600		270	25	2.75	5	B,D,J				3		3		12	3		
08 OOO 55	Baie Comeau							J				1	2		3				
09 GFF 56	Baie St. Paul	1150	1050	870	10	4.00	23	B,J				1	2	1	4	4	2		
10 GGO 55	Beanceville		800	722	25	4.50		J		1		1	2	2	6	12			
11 OOO 66	Beauharnois								1	1		1	2	1	1	7			
12 FEF 62	Beloeil	1500	3400	1319	10	4.50	40*47	B,J	1	1	1	1	3	2	1	11	12	10	
13 GGO 55	Black Lake		750	625	25	3.00			1			1	2	1	5	6	9		
14 GOO 65	Boucherville			850					1	1	1	1	2	1	1	8			
15 GGO 58	Bromptonville		600	515	15	5.00		J	1	1	1	1	3	1	1	9	9	8	
16 GFF 67	Buckingham	1700	1300	850	10	4.75		J		1	2	2	2	2	1	10	TW	12	
17 EDD 61	Cap Madeleine	7500	7500	4927	nil	5.40	32*36	A,J	1	1		1	2	1	1	7	12	12	
18 OOO 56	Cansapscal							B				2	1		3				
19 GFO 61	Chandler		1100	950	15	4.00		B,J				2			2				
20 FFF 61	Chapais	2000	2200	1700	50	11.00	4*5	B				1			1	1			
21 IGO 58	Chomedey		700	200	10	2.50		B,J		1	1		1		3		8		
22 FFE 67	Clermont	2600	1500	1097	25	5.25	22*28	B,J				1	3	1	5				
23 FFO 57	Coaticook		1500	1000	125	4.00		C,E	1	1	1	1	2	1	1	8		10	
24 OOO 65	Coleraine								1			1	3	2	7				
25 IHH 65	Cookshire	450	300	200	85	3.50	10		1	1	1	1	2	1	1	8	8		
26 HFF 65	Cowansville	1500	1500	350	15	4.00	20*25	E	1	1	1	1	3	1	1	9	M	12	
27 HHH 59	Danville	500	500	400	10	4.00	12	B,J	1	1	1	1	2	1	1	8	10		
28 OOO 64	Disraeli								1	1		1	3	2	8				
29 FFO 56	Dolbeau		1500	1200	25	4.00		B,J				2			2				
30 EDD 55	Drummond	9000	6000	3300	10	3.95	115*120	Comp	1	1	1	1	2	1	1	8	12		
31 GFO 61	East Angus	100	1200	855	10	5.25	15*18	C,E	1	1	1	1	3	1	1	9		F	
32 IHO 63	East Broughton		300	140	100	3.00	3	B	1			1	3	1	6		9		
33 OEE 58	Fabreville	4000	5000		13	4.50	43*100	C	1	1	1	1	2	2	1	9	W	12	
34 IIO 59	Ferme Neuve		200	156	15	2.50		B,J				2	1		3				
35 OOO 63	Gaspé											2			2				
36 EDD 67	Gatineau	7000	6500	4350	10	4.75		J		1		2	2	2	1	8	TW,L	12	
37 IIO 67	Girardville		150	130	50	2.50		E				2			2		6		
38 FED 62	Granby	6000	4000	1200	15	4.00	30*33	E	1	1	1	1	3	1	1	9	M	12	
39 OOO 61	Grande Riviere											2			2				
40 IHH 63	Grande Vallee	270	250	200	50	5.00	15	B,D,J				1	1		2		5		



P 1006 / D.O.C.
source: ASDA / TVF

CATV SYSTEMS SUMMARY

QUEBEC

6.74

code	location	subscribers			rates		plant miles	equ't mfr	US netwk			CDN net			tot	local	cap	fm	v
		access	pot'	act'	fee	mc			A	C	N	E	B	F					
41 FEE 54	Grand Mere	4300	4300	3000	1	4.85	33*38	C	1	1	1	3	1	2	9		12	9	C
42 III 66	Greenfield Park	200	200	200	nil	3.50				1	1	1	2	2	1	8			
43 JII 63	Hermitage	150	150	40	15	5.00	3*4	J	1	1	1	1	2	1	1	8	12	F	
44 JIO 56	Labelle		175	95				B,J	1			1	1			3	3		
45 IOI 56	Lacaux Sables	175		175	nil	2.00		B				1	2	2		5			
46 IIO 56	Lac Bouchette	225	225		75	2.50		B				2				2			
47 OOO 57	Lac Carre											1	2	1	1	5			
48 OOO 59	Lac Edouard											1	2			3			
49 HHH 55	Lac Etchemin	4100	400	285	nil	4.25	4*5	B	1			1	2	1		5	5		
50 GFF 60	Lachute	1500	2000	600	20	4.00	20	E,J	1	1		1	2	3	1	9	M	12	10
51 FFF 56	Lac Megantic	1200	1800	1200	55	4.05		Comp	1	1		2	2	1		7		6	1
52 HGO 56	La Malbaie		525	490	55	0.80		B				1				1		2	
53 OOO 62	L'Annonciation											1	2	1	1	5			F
54 OJJ 71	La Patrie	4	80		90	4.00		D,V				1	1	2		4		10	6
55 GGG 56	La Pocatiere	820	820	609	5	4.00	8	L,V				1	3	1		5		12	3
56 IHO 62	La Salle		400	125	10	3.00		J	1	1	1	1	2			6		7	
57 ROE 68	La Tuque	3200		3000	10	4.50	30	C,J		1		4	1	1		7		12	3
58 JGO 60	Laval des Rapides		1000	50	nil	4.50	4	B		1		1	1			3	L	4	
59 IHO 67	Lebel Sur Quevillon		500	200				B,J				1	1			2			
60 FFF 61	Lennoxville	1300		1050	15	5.00	20*25	C,E	1	1	1	1	2	1	1	8		12	5
61 EEO 58	Magog		3500	3000	10	4.00	29*30	E	1	1	1	1	3	1	1	9	MW,L	12	10
62 HGF 60	Malarke	1200	1000	450	10	5.00	11	C				1	1			2	L	12	F
63 GFO 56	Maniwake		1500	750	10	4.00		V				2	1	1		4	L	5	F
64 JJJ 59	Marsoul	100	100	95	50	3.00	2	B				1				1		1	
65 HHH 64	Matagami	460	400	350	50	3.00	8	B				1	1			2		12	F
66 OOO 64	Matane											2				2			
67 OOO 65	Montjoli											1	3			4			
68 FFF 61	Mont Laurier	1700	1600	1350	10	4.25		J				1	2	1	1	5	TW,L	12	8
69 IIO 62	Mont Tremblant		200	130	range		10	C,D		1	1	1	1	2	1	7		19	8
70 BAA 56	Montreal	165K	70K	47K	13	4.95	750*1050	Comp	1	1	1	1	1	1		8	TW,L	8	
71 HFO 63	Montreal		1300	300				B,J				1	1	1	1	4			
72 AAA 52	Montreal	424K	200K	85K	10	5.00	1100*1200	C	1	1	1	1	3	2	1	10	TW,L	12	14
73 IHO 57	Nicolet		450	137	30	2.00		B,E				1	3	1	1	6		6	
74 OOO 00	Nicolet							Comp				1	2			3			
75 OOO 00	Nicolet											1	3	1	1	6			
76 HHO 52	Normandin		460	415	50	2.00	3	E				2				2		6	
77 HOG 57	N. Gaspé	1000		350	100	4.00	20	B				1				1		1	
78 IIH 66	N. Hatley	400	250	150			7*8	J	1	1	1	1	2	1	1	8		8	8
79 JJO 54	N D des Anges		100	70				B,J				2	2			4			
80 OOO 55	N D Guadeloupe							B	1	1		1	1			4			



P1006 / D.O.C.
source: ASDA / TVF

CATV SYSTEMS SUMMARY

QUEBEC 6.75

code	location	subscribers	access	pot'lact'	rates	fee	mo	plant	miles	equ't	mfr	US netw'k	CDN net	tot	local	cap	fm	u
												A C N I E	B F T I E					
81 J00 61	Perce			78	140	2.00				J			2	2				
82 GFO 61	Plessisville	1500	850		nil	3.30		7		E			1 3 1 1	7			9	F
83 HFO 66	Port Alfred	2000	300		30	2.50				B-			2	2			2	
84 I00 61	Port Cartier		150		50	7.00				B,J			1 1	2			3	
85 000 62	Princeville										1 1		1 2 1 2	8				7
86 CBB 61	Quebec	48K	30K	16K	15	4.58		200*400		C	1 1		1 3 1 2	9			12	
87 GFO 56	Richmond	1300	925		50	3.30				E	1 1 1		1 2 1 1	8			12	F
88 000 62	Riviere a Clante												1	1				
89 I00 56	Riv. a Pierre		159		100	3.00				B			1 2 1	4				A,F
90 000 70	Riv. du Loup												1 3 1	5				
91 000 00	Riv. Bleu												2	2				
92 I10 56	Rock Island	250	210		25	3.50		2		B,E	1 1 1		1 2 1 1	8				F
93 000 67	Rouyn												1 1	2				
94 J00 66	St. Benoit		40		45	3.50					1		1 3 1	6				F
95 JJJ 64	St. Come	100	100	25	75	3.00		1		E,J			1 2 1 1	5			5	
96 000 55	St. Come de Beauce										1		1 3 1	6				F
97 IHI 56	St. Donat	250	300	225	25	2.00		5*7		B	1		1 2 1 1	6			8	
98 000 55	St. Evariste									B	1		1 2 1	5				
99 FFO 55	St. Felicien	1500	1100					4*5		B,J			2	2			2	
100 I00 57	St. Gedeon		174							B			1 1	3				
101 FFF 55	St. Georger	2500	2500	1600	75	3.00		40*50		B,E	1		1 2 1	5			12	
102 000 57	St. Gregoire												1 3 1	5				
103 000 67	St. Hubert										1 1 1		1 1 2 1	8				
104 J00 61	St. Hyacinthe		100								1 1		1 2 1 1	7			7	
105 HFO 61	St. Hyacinthe	2500	250		15	4.50				E	1 1 1		1 2 1 1	8			9	
106 000 65	St. Joseph										1		1 3 1	6	W			F
107 HGO 55	St. Jovite	700	450							B,C	1		1 1 1 1	5				F
108 JJO 55	St. Ludger	100	89		50	3.00		4		B,D	1 1		1 1	4			9	
109 GGG 66	St. Martin	668	668	668	nil	3.50					1 1		1 2 2 1	8				
110 HHO 55	St. Martin de B		350	325	50	3.00				B	1		1 1 1	4				
111 000 62	St. Michel									B,E			1 2 1 1	5				
112 III 58	St. Pacome	160	160	126	5	4.00		3		B			1 2 1	4				
113 000 55	St. Pamphile												2 2 1	5				
114 HHO 57	St. Pascal	500	350		10	4.00				B,J			1 4 1	6			6	F
115 000 60	St. Phillippe												1 3 1	5				
116 IHO 55	St. Prosper	400	225		25	3.00		3		D	1		1 3 1	6				
117 GGO 55	St. Raymond	1000	950		30	4.50				V			1 3 2	6	L			C
118 GFO 56	St. Theophile	1200	860		50	3.00		15*17			1		1 3 1	6			12	
119 I10 64	St. Thomas		130	110	50	2.00				E			2	2			6	
120 HGG 55	St. Tite	700	600	490	50	3.00		7		B,C,E	1		2 3 1	7			10	12



P1006 / D.O.C.
source: ASDA / TVF

CATV SYSTEMS SUMMARY

QUEBEC

6.76

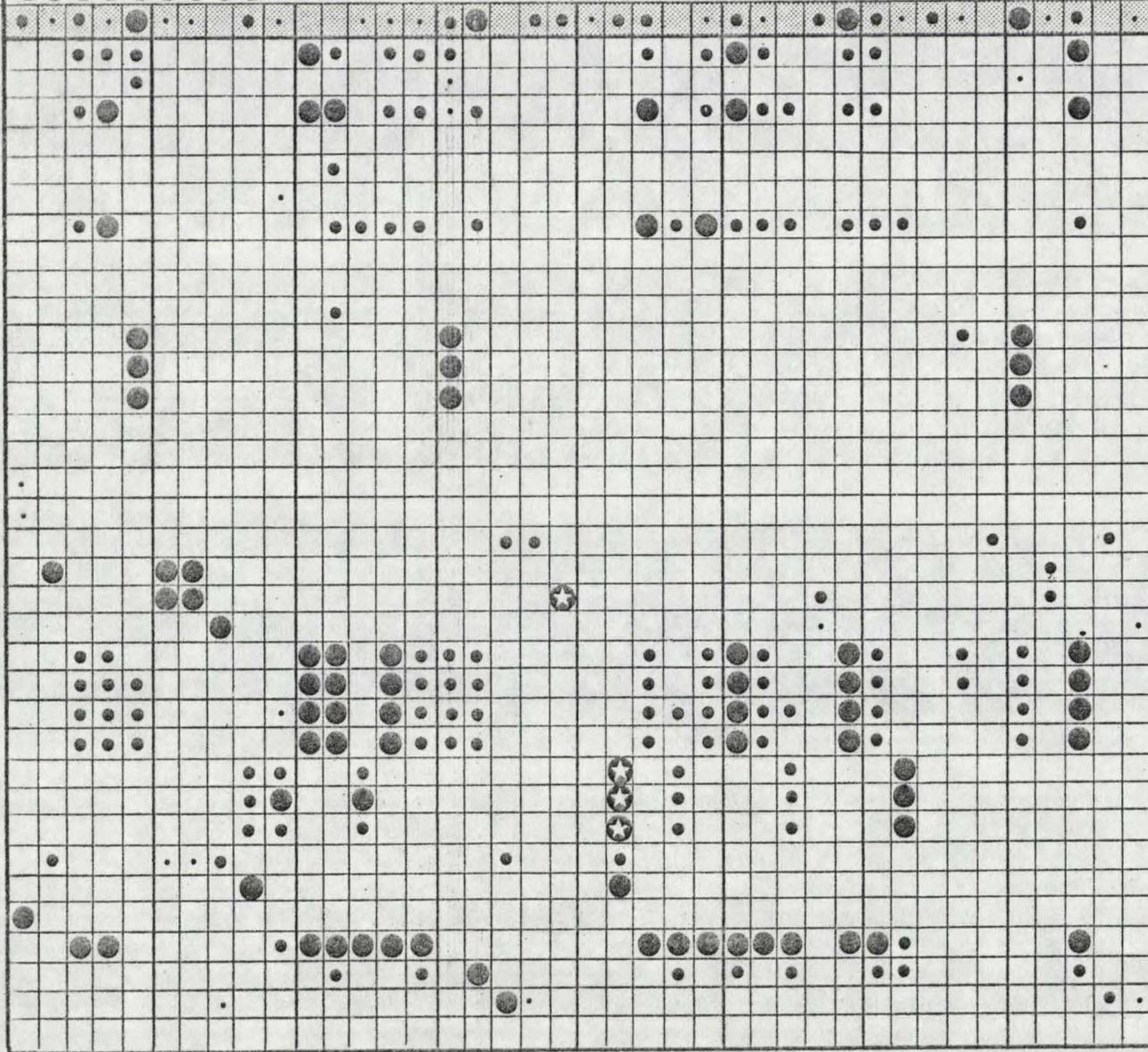
code	location	subscribers			rates		plant miles	equ't mfr	US netw'k			CDN net			tot	local	cap	fm	k
		access	pot'	act'	fee	mo			A	C	N	E	B	F					
121 000 63	St. Zenon							B,J	1			1	2	1	1	5			
122 000 62	Ste. Adele								1			1	2	2	1	7			
123 000 56	Ste. Anne Perade											1	2	1		4			
124 000 60	Ste. AnneduLac											1	1			2			
125 JJJ 65	Ste. Antoine	70	70	59	70	6.00	3	B,J				1	1			2		2	
126 000 59	Ste. Genevieve								1	1	1	1	1			4			
127 000 56	Ste. Germaine								1			1	2	1		5			
128 000 66	Ste. Honore								1			1	3	1		6			F
129 000 56	Ste. Justine								1			1	1	1		4			
130 HFO 65	Ste. Marie Beauce	1100	260	nil	3.50			B,D	1			1	3	1		6		5	
131 000 59	Ste. Marthe														0				
132 IHH 64	Ste. Thecle	450	400	180	20	3.25	3*5	C				1	3	2		6		9	8
133 IHH 67	Sawyerville	260	225	160	35	6.95	3	E	1	1	1	1	2	1	1	8		8	10
134 FEO 58	Sept. Isles		4200	1400	40	5.50		Comp				1	1			2		5	
135 EEO 53	Shawinigan		3800	2800					1	1		1	3	1		7			
136 DDD 55	Shawinigan	9000	9500	7350	10	4.45	7*9	C,J	1	1		1	3	1	2	9			
137 GGO 55	Shawinigan Falls		1000	600				J				1	2	1		4	TW	12	F
138 FFO 55	Shawinigan Falls		1500	1100	90	3.00		B,J	1	1		1	2			5			
139 CCC 55	Sherbrooke	19K	19K	15.6K	15	5.00	190	Comp	1	1	1	1	1	1	1	7		12	14
140 000 62	Sovel-Tracy								1	1	1	1	3	1	1	9			F
141 IIO 58	Sully		140	100	100	3.00		B				1				1		2	
142 EEE 56	Thetford Mines	5000	4000	3700	nil	3.25	65	E	1	1		1	3	2		8		12	F
143 CCC 56	Trois Rivieres	12K	15K	11.6K	25	4.45	12	C	1	1		1	3	1	1	8	TW	12	1
144 JIO 55	Trois Rivieres		175	65	50	2.00		B				1	3	1		5			
145 FEE 58	Val d'Or	3000	3000	1200	10	4.50	25*30	C				1	1			2		12	5
146 HHO 61	Vallee Junction		300	290	nil	3.50		B,D				1	3	1		5		5	
147 HFO 62	Valley Field		2000	350	20	3.50		B	1	1	1	1	2	1		7		12	F
148 GFO 57	Verdun		2500	850	10	3.00		B	1	1	1	1				4		5	
149 EDD 64	Victoriaville	6500	6500	4955	10	4.87	28*31	Comp	1	1	1	1	3	1	1	9		12	12
150 EDD 63	Victoriaville	6950	5800	4756			57*58	Comp	1	1	1	1	3	1	1	9		12	12
151 HHH 58	Ville Maire	375	400	274	35	3.25	5	B	1			1	2			4		12	
152 HHH 53	Warwick	400	450	350	nil	3.50		B	1			1	3	1	1	7		7	F
153 GFF 60	Waterloo	1275	1100	940	10	4.00		J	1	1	1	1	2	1	1	8	*W	12	F
154 000 63	Waterville								1	1	1	1	2	1	1	8			
155 000 66	Weedon								1	1	1	3	2			8			
156 GFO 57	Windsor		1200	725	50	3.50		E										8	
157 JJO 68	Woburn		100	50	75	5.40		Comp										4	



QUEBEC

CATV SIGNAL SOURCES

01 FFG 57
 02 IHH 57
 03 FFO 54
 04 III 63
 05 CCC 62
 06 GGO 56
 07 HOG 54
 08 OOO 55
 09 GFF 56
 10 GGO 55
 11 OOO 66
 12 FEF 62
 13 GGO 55
 14 GGO 65
 15 GGO 58
 16 GFF 67
 17 EDD 61
 18 OOO 56
 19 GFO 61
 20 FFF 61
 21 IGO 58
 22 FFE 67
 23 FFO 57
 24 OOO 65
 25 IHH 65
 26 HFF 65
 27 HHH 59
 28 OOO 64
 29 FFO 56
 30 EDD 55
 31 GFO 61
 32 IHO 63
 33 OEE 58
 34 IIO 59
 35 OOO 63
 36 EDD 67
 37 IIO 67
 38 FED 62
 39 OOO 61
 40 IHH 63



WPTZ	5	Plattsburgh
WWNY	7	Watertown
WCAX	3	Burlington
WVNY	22	
WETK	33	
WABI	2	Bangor
WMTW	8	Poland Spring
WAGM	8	Presque Isle
CJSS	8	Cornwall
CBOT	4	Ottawa
CBOFT	9	
CJOH	13	
CHOV	5	Pembroke
CBFST	7	Sturgeon Falls
CFCL	6	Timmins
CBFOT	9	
CHAU	5	Carleton
CJPM	6	Chicoutimi
CKRS	12	Jonquiere
CKBL	9	Matane
CBFT	2	Montreal
CBMT	6	
CFIM	10	
CFCF	12	
CBVT	11	Quebec
CKMI	5	
CFCM	4	
CJBR	3	Rimouski
CKRT	7	Riv. du Loup
CKRN	4	Rouyn
CHLT	7	Sherbrooke
CKTM	13	Trois Riv.
CKAM	12	North Shore
CHSJ	4	St. John



source: ASDA/TVF

N B

Distance ● Close
 Notation ● Distant
 Reversed ● Remote

P 1006 / D.O.C.

6.78

QUEBEC

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Acton Vale	4.6	o	Bélair	4.5	o
Alma	22.6	⊙	Beloeil	12.3	⊙ 12.13
Amos	7.0	0 01.01	Bernierville	2.4	.14
Amqui	3.8	o	Berthierville	4.1	o
Ancienne-Lorette	8.3	0	Bic	1.2	
Anjou	33.9	⊙	Black Lake	4.1	o 13.15
Arthabaska	4.8	o .81	Blainville	9.6	0
Arvida	18.4	⊙	Bois-des-Filion	4.1	o
Asbestos	9.7	0 02.03	Boucherville	20.0	⊙ 14.16
Aylmer	7.2	0 05.07	Bourlamaque	4.1	o
Bagotville	6.0	0 07.08	Bromont	1.1	
Baie-Comeau	12.1	⊙ 08.11	Bromptonville	2.8	o 15.17
Baie-D'Urfé	3.9	o	Brossard	23.5	⊙
Baie-St-Paul	4.2	o 09.10	Brownsburg	3.5	o
Barraute	1.3		Buckingham	7.3	0 16.18
Beaconsfield	19.4	⊙	Cabano	3.1	o
Beauceville	2.1	10.12	Cadillac	1.1	
Beauceville-Est	2.2	10.	Campbell's Bay	1.2	
Beauharnois	8.1	0 11.	Candiac	5.2	0
Beauport	14.7	⊙	Cap-aux-Meules	1.1	
Beaupré	2.9	o	Cap-Chat	3.9	o
Bécancour	8.2	0	Cap-de-la-Madeleine	31.5	⊙ 17.19
Bedford	2.9	o	Carignan	3.3	o
Beebe Plain	1.2		Causapscal	3.0	o 18.
Baie de Shawinigan	1.0		Chambly	11.5	⊙

QUEBEC

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.
Chambord	1.1		Desbiens	1.8	
Chandler	3.8	o 19.	Deschailions St-Lau.	1.8	
Chapais	3.0	o 20.20	Deschambault	1.0	
Charlemagne	4.1	o	Deschenes	1.8	
Charlesbourg	33.4	⊙	Deux-Montagnes	8.6	0
Charny	5.2	0	Disraëli	3.4	o 28.27
Châteauguay	15.8	⊙ .70	Dolbeau	7.6	0 29.28
Châteauguay-Centre	17.9	⊙	Dollard-des-Ormeaux	25.2	⊙
Château-Richer	3.1	o	Donncona	5.9	0
Chibougamau	9.7	0 .20	Dorion	6.2	0
Chicoutimi	33.9	⊙	Dorval	20.5	⊙
Chicoutimi-Nord	14.1	⊙	Douville	3.3	o
Chute-aux-Outardes	1.9		Drummondville	31.8	⊙ 30.29
Clermont	3.4	o 22.	Drummondville-Sud	9.0	0 30.
Coaticook	6.6	0 .21	Duberger	8.5	0
Como E.	1.0		East Angus	4.7	o 31.30
Contrecoeur	2.7	o	East Broughton Stn	1.1	32.31
Cookshire	1.5	25.23	Farnham	6.5	0
Côte-St-Luc	24.4	⊙	Ferme-Neuve	2.0	34.32
Courville	6.2	0	Forestville	1.6	
Cowansville	11.9	⊙ 26.25	Fort Coulonge	1.8	
Crabtree	1.7		Francoeur	1.2	
Danville	2.6	o 27.26	Gagnon	3.8	o
Dégelis	3.0	o	Gaspé	17.2	⊙ 35.
Delson	2.9	o	Gatineau	22.3	⊙ 36.33

QUEBEC

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.
Giffard	13.1	⊙	Lachute	11.8	⊙ 50.51
Gracefield	1.0		Lac-Mégantic	6.8	0 51.
Granby	34.4	⊙ 38.35	Lacolle	1.3	
Grande Rivière	1.2	39.	Laflèche	15.1	⊙
Grand'Mère	17.1	⊙ 41.36	Lafontaine	3.0	o .108
Greenfield Park	15.3	⊙ 42.	La Guadeloupe	1.9	.40
Grenville	1.5		La Malbaie	4.0	o 52.
Hampstead	7.0	0	L'Annonciation	2.2	53.38
Hauterive	13.2	⊙	La Pérade	1.1	
Hébertville-Stn	1.2		La Pocatière	4.3	o 55.43
Hudson	4.3	o	La Prairie	8.3	0
Hull	63.6	⊙ .07	La Providence	4.7	o
Huntingdon	3.1	o	LaSalle	72.9	⊙ 56.
Iberville	9.3	0	La Sarre	5.2	0
Ile-Perrot	4.0	o	L'Assomption	4.9	o
Joliette	20.1	⊙	La Tuque	13.1	⊙ 57.44
Jonquière	28.4	⊙	Laurentides	1.7	
Kénogami	11.0	⊙	Lauzon	12.8	⊙
Kirkland	2.9	o	Laval	228.0	⊙ .52
Knowlton	1.5		Lavaltrie	1.3	
Labelle	1.5	44.39	Lebel-sur-Quévillon	2.9	o .53
Lac-au-Saumon	1.3		LeMoyne	8.2	0
Lac-Brome	4.1	o	Lennoxville	3.9	o 60.54
Lac-Etchemin	2.8	o 49.50	L'Epiphanie	2.8	o
Lachine	44.4	⊙	Léry	2.2	

QUEBEC

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Les Saules	6.2	0	Mont-Joli	6.7	0 67.
Lévis	16.6	⊙	Mont-Laurier	8.2	0 68.
Linière	1.2		Montmagny	12.4	⊙
L'Islet	1.2		Montmorency	4.9	o
L'Isle-Verte	1.4		Montréal	1214.4	⊙ 70.65
Longueuil	97.6	⊙	Montréal-Est	5.1	0 70.
Loretteville	11.6	⊙	Montréal-Nord	89.1	⊙ 70.
Lorraine	3.1	o	Montréal-Ouest	6.4	0 70.
Louiseville	4.0	o	Mont-Royal	21.6	⊙ 70.
Luceville	1.4		Mont-St-Hilaire	5.8	0
Macamic	1.7		Murdochville	2.9	o
Magog	13.3	⊙ 61.55	Napierville	2.0	
Malartic	5.3	0 62.56	Nazareth	2.0	
Maniwaki	6.7	0 63.57	Neufchâtel	6.6	0
Maple Grove	1.7		New Richmond	4.0	o
Marieville	4.6	o 73.71	Nicolet	4.7	o
Mascouche	8.8	0	Noranda	10.7	⊙
Masson	2.3	.18	Normandin	1.8	76.73
Matagami	2.4	65.59	N.-D. de Lorette	5.7	0
Matane	11.8	⊙ 66.	N.-D. des Lauren.	5.1	0
McMasterville	2.5	o	N.-D. d'Hébertville	1.5	
Melocheville	1.6		N.-D. du Bon-Conseil	1.0	
Mercier	4.0	o	N.-D. du Lac	2.1	
Mistassini	3.6	o	Omerville	1.1	
Montebello	1.3		Ormstown	1.5	

QUEBEC

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.	
Orsainville	12.5	⊙	Richmond	4.3	o 87.83	
Otterburn Park	3.5	o	Rigaud	2.1		
Outremont	28.6	⊙	Rimouski	26.9	⊙	
Papineauville	1.4		Rimouski-Est	2.1		
Percé	5.6	o	Rivière-du-Loup	12.8	⊙ 90.86	
Pierrefonds	33.0	⊙	Rivière-du-Moulin	4.4	o	
Pierreville	1.5		Robertsonville	1.3	.87	
Pincourt	5.9	o	Roberval	8.3	o	
Plessisville	7.2	o	82.78	Rock Island	1.3	92.88
Pointe-au-Pic	1.2		Rosemère	6.7	o	
Pte-aux-Trembles	35.6	⊙	Rouyn	17.8	⊙ 93.89	
Pointe-Calumet	2.2		Roxboro	7.6	o	
Pointe-Claire	27.3	⊙	Roxton Falls	1.1		
Pointe-Gatineau	15.6	⊙	St-Agapitville	1.5		
Pont-Rouge	3.2	o	Ste-Agathe (Monts)	5.5	o .125	
Port-Alfred	9.2	o	83.80	St-Ambroise	1.6	
Port-Cartier	3.7	o	84.	St-André-Avellin	1.1	
Portneuf	1.3		St-André-Est	1.2		
Préville	1.2		Ste-Anne (Beaupré)	1.8		
Price	2.7	o	Ste-Anne (Bellevue)	5.0	o	
Princeville	3.8	o	85.81	Ste-Anne (Monts)	5.5	o
Québec	186.1	⊙	86.82	St-Anselme	1.4	
Rawdon	2.7	o	St-Antoine	5.8	o	
Repentigny	19.5	⊙	St-Basile (Grand)	4.4	o	
Richelieu	1.7		St-Basile (Sud)	1.7		

QUEBEC

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
St-Boniface	2.6	o	St-Georges-Ouest	6.0	0
St-Bruno	1.3		St-Germain (Grantham)	1.1	.127
St-Bruno (Montar.)	15.8	⊙ .13	St-Henri	1.2	
St-Casimir	1.2		St-Honoré	1.1	.106
St-Césaire	2.3		St-Hubert	21.7	⊙ 103.
St-Chrysostome	1.1		St-Hyacinthe	24.6	⊙ 104.107
St-Coeur-de-Marie	1.2		St-Jacques	2.0	
Ste-Croix	1.5		St-Jean	32.9	⊙
St-Cyrille	1.1		St-Jean (Chrysos.)	1.9	
St-Damase	1.1		St-Jean (Boischa.)	1.7	
St-David	3.8	o	St-Jérôme	26.5	⊙ .108
St-Dominique	1.7		St-Jérôme	1.9	
St-Emile	2.6	o	St-Joseph	4.9	o 106.109
St-Eustache	9.5	0	St-Joseph (Beauce)	2.9	o
St-Félicien	5.0	0 99.101	St-Joseph (Rivière)	1.4	
St-Félix (Valois)	1.5		St-Joseph (Sorel)	3.3	o
Ste-Foy	68.4	⊙	St-Jovite	3.1	o 107.110
St-François	1.0		St-Lambert	18.6	⊙
St-Fulgence	1.1		St-Laurent	63.0	⊙
St-Gabriel	3.4	o	St-Léonard	52.0	⊙
St-Gédéon	1.2	100.102	St-Luc	4.9	o
Ste-Geneviève	2.8	o	Ste-Madeleine	1.1	
St-Georges	7.6	0	St-Marc (Carrières)	2.7	o
St-Georges	2.1		Ste-Marie	4.3	o 130.129
St-Georges (Cacouna)	1.0		St-Nicolas	2.0	

QUEBEC

TOWN	POP 'N/SIZE	CATV/REF.	TOWN	POP 'N/SIZE	CATV/REF.
St-Pacôme	1.2	112.114	Schefferville	3.2	o
St-Pamphile	3.5	o .115	Scotstown	1.0	
St-Pascal	2.5	o 114.116	Senneterre	4.3	o
St-Pie	1.7		Senneville	1.4	
St-Pierre	6.8	0	Sept Iles	24.3	⊙ 134.92
St-Prime	2.4		Shawbridge	1.0	
St-Raphaël	1.2		Shawinigan	27.8	⊙ 135.93
St-Raymond	4.0	o 117.118	Shawinigan-Sud	11.5	⊙ 135.
St-Rédempteur	1.7		Shawville	1.7	
St-Rémi	2.3		Sherbrooke	80.7	⊙ 139.94
St-Romuald	8.4	0	Sillery	13.9	⊙
Ste-Rosalie	2.2		Sorel	19.3	⊙ 140.95
St-Sauveur (Monts)	1.8		Stanstead Plain	1.2	
Ste-Scholastique	14.8	⊙	Sutton	1.7	
St-Siméon	1.2		Tadoussac	1.0	
Ste-Thècle	1.7	132.131	Temiscaming	2.4	
Ste-Thérèse	17.2	⊙ .52	Templeton	3.7	o .33
Ste-Thérèse-Ouest	7.3	0	Terrebonne	9.2	0
St-Timothée	1.6		Thetford Mines	22.0	⊙ 142.132
St-Tite	3.1	o 120.121	Thurso	3.2	o
St-Victor	1.0		Tracy	11.8	⊙
St-Zacharie	1.4		Tring-Jonction	1.3	
St-Zotique	1.2		Trois Pistoles	4.7	o
Sacré-Coeur (Jésus)	1.3		Trois-Rivières	55.9	⊙ 143.134
Sayabec	1.8		Trois-Rivières(O.)	8.1	0 143.

QUEBEC

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Valcourt	2.4				
Val-David	1.6				
Val-d'Or	17.4	⊙ 145.135			
Vallée-Jonction	1.3	146.136			
Valleyfield	30.2	⊙ 147.137			
Val-St-Michel	2.1				
Vanier	9.7	○			
Varennés	2.4				
Vaudreuil	3.8	○			
Verchères	1.8				
Verdun	74.7	⊙			
Victoriaville	22.0	⊙ 149.138			
Ville-Marie	2.0	151.			
Villeneuve	4.0	○			
Warwick	2.8	○ 152.141			
Waterloo	4.9	○ 153.142			
Waterville	1.5	154.143			
Weedon-Centre	1.4	155.144			
Westmount	23.6	⊙			
Windsor	6.0	○ 156.145			
Yamachiche	1.1				



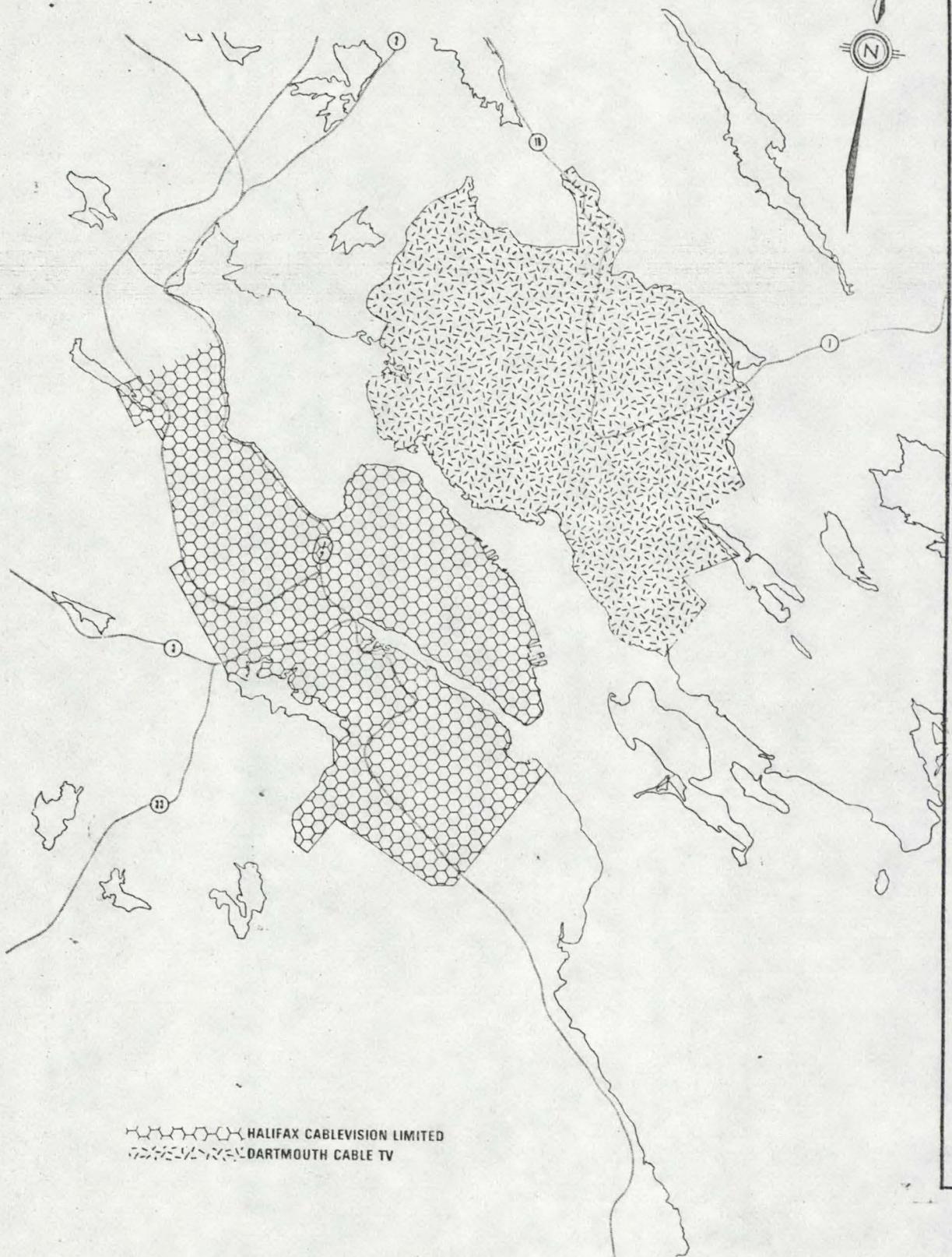
CATV SYSTEMS
 Maritime Provinces
 and their TV signal
 sources in US



source ASDA

HALIFAX-DARTMOUTH CABLEVISION SYSTEMS

Source: CRTC



⬢⬢⬢⬢⬢⬢ HALIFAX CABLEVISION LIMITED
⬢⬢⬢⬢⬢⬢ DARTMOUTH CABLE TV

New Brunswick

01 Chatham (CFB)	Thornycroft, Col. K.J.
02 Campbellton	North Shore Community Television Limited
03 Fredericton —	City Cablevision Limited
04 Nashwaaksis	
05 Kedgwick	Guerette Télévision Communautaire Limitée
06 Nackawic	J & K Enterprises Limited
07 St. Quentin	Guerette Télévision Communautaire Limitée
08 St. Stephen — Milltown	Weatherby, A. Clayton
09 Woodstock	Woodstock Community TV Limited

Prince Edward Island

Nova Scotia

01 Amherst	Central Cable Television Limited
02 Dartmouth	Dartmouth Cable TV Limited
03 Halifax	Halifax Cablevision Limited
04 New Glasgow	K-Vision Services Limited
05 Truro & Bible Hill	Eastern Cablevision Limited
06 Truro Colchester Hospital	Coratel Services Limited

Newfoundland

01 Baie Verte	Thistle, Sidney Neal
---------------	----------------------

Yukon

01 Whitehorse	Northern Television Systems Limited
---------------	--

Northwest Territories

01 Yellowknife	North, Brian John
----------------	-------------------

code	location	subscribers		rates		plant miles	equ't mfr	US netw'k			CDN net			tot	local	cap	fm	v
		access	pot'l	act'l	fee			mo	A	C	N	I	E					
N.B.																		
01 FFO 55	Campbelltown	2450	1255				C		1		3	1		4	M		F	
02 FFO 56	Edmundston	2000	1665	10	5.00		E,J			1		1	2	4		5		
03 EDO 62	Fredericton	6000	4300				J	1	1	1	1	1	1	6	L	9		
04 OHO 57	Grand Falls						B		1		1	1		3				
05 IIO 56	Kedgwick	210	175				C		1		3	2		6	M			
06 IHO 70	Nackawick	400	130	50	5.00		V		1	1	1	1		4			F	
07 OOO 67	St. John							1	1	1	1	1	2	7			F	
08 IHO 57	St. Quentin	385	225				B		1		3	2		6	M			
09 IGG 67	Stephen	550	750	220	nil 4.50	18*38	B,D	1	1	1	1	1	1	6		12	4	
10 FOO 58	Woodstock		1283		5 3.75		E,J		1	1	1	1		4		4		
N.S.																		
	Truro	2000	1012	25	5.50	19*69	B				3	1		4		8		
NFLD.																		
01 HHH 64	Baie Verte	330	300	250	60 3.50	2*4	J				1	1		2		2		
YUKON																		
01 FFF 59	Whitehorse	2400	1500	1100	25 15.00										TW			

NOTATION:

Code: nn X Y Z yy

nn index number
X actual subscribers
Y potential "
Z accessible "
yy year started
(00 if unknown)

CATV System Size

A	50000	S
B	25000	U
C	10000	B
D	5000	S
E	2500	C
F	1000	R
G	500	I
H	250	B
I	100	E
J		R
O	No data	S

Network Code

US	Cdn
A ABC	CBC B
C CBS	CBC Fr. F
N NBC	CTV T
I Independent	I
E Education	E



NEW BRUNSWICK

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Atholville	2.1		Lower Caraquet	1.7	
Barker's Point	1.9		Marysville	3.9	o
Bathurst	16.7	⊙	McAdam	2.2	
Beresford	2.3		Milltown	1.9	.08
Bertrand	1.1		Minto	3.9	o
Buctouche	2.0		Moncton	47.9	⊙
Campbellton	10.3	⊙ 01.02	Nackawic	1.3	.06
Cap-Pelé	2.1		Nashwaaksis	7.4	0 .04
Caraquet	3.4	o	Neguac	1.5	
Charlo	1.6		Nelson Miramichi	1.6	
Chatham	7.8	0 .01	Newcastle	6.5	0
Chipman	2.0		Norton	1.2	
Dalhousie	6.2	0	Oromocto	11.4	⊙
Dieppe	4.3	o	Perth-Andover	2.1	
Dorchester	1.2		Petit Rocher	1.6	
Edmundston	12.4	⊙ 02.	Petitcodiac	1.6	
Eel River Cross.	1.1		Plaster Rock	1.3	
Fairvale	2.1		Quispamsis	2.2	
Fredericton	24.3	⊙ 03.03	Renforth	1.6	
Grand Falls	4.5	o 04.	Richibucto	1.9	
Gunningsville	1.7		Riverview Heights	6.5	0
Hampton	1.8		Rivière Verte	1.7	
Hartland	1.0		Rogersville	1.1	
Kedgwick	1.1	.05	Rothsay	1.0	
Lewisville	3.7	o	St. Andrews	1.8	



NEW BRUNSWICK

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Ste. Anne de Mad.	1.3				
St. Anselme	1.2				
St. Basile	3.1	o			
St. George	1.1				
St. Jacques	1.1				
Saint John	89.0	@			07.
St. Leonard	1.5				
St. Quentin	2.1				.07
St. Stephen	3.4	o			09.08
Sackville	3.2	o			
Salisbury	1.1				
Shediac	2.2				
Shippegan	2.0				
Sussex	4.0	o			
Tracadie	2.2				
Woodstock	4.8	o			10.09

NOVA SCOTIA

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Amherst	10.0	0 .01	Oxford	1.5	
Antigonish	5.5	0	Parrsboro	1.8	
Berwick	1.4		Pictou	4.3	o
Bridgetown	1.0		Port Hawkesbury	3.8	o
Bridgewater	5.2	0	Shelburne	2.9	o
Canso	1.2		Springhill	5.3	0
Clark's Harbour	1.1		Stellarton	5.4	0
Dartmouth	64.8	0 .02	Stewiacke	1.0	
Digby	2.4		Sydney	33.2	0
Dominion	2.9	o	Sydney Mines	9.0	0
Glace Bay	22.4	0	Trenton	3.3	o
Halifax	122.0	0 .03	Truro	13.0	0 .05
Hantsport	1.4		Westville	3.9	o
Inverness	2.0		Windsor	3.8	o
Kentville	5.2	0	Wolfville	2.9	o
Liverpool	3.7	o	Yarmouth	8.5	0
Lockeport	1.2				
Louisbourg	1.6				
Lunenburg	3.2	o			
Mahone Bay	1.3				
Middleton	1.9				
Mulgrave	1.2				
New Glasgow	10.8	0 .04			
New Waterford	9.6	0			
North Sydney	8.6	0			

NEWFOUNDLAND

TOWN	POP'N/SIZE	CATV/REF.	TOWN	POP'N/SIZE	CATV/REF.
Badger	1.2		Harbour Grace	2.8	o
Baie Verte	2.4	.01	Hare Bay	1.5	
Bay Roberts	3.7	o	Holyrood	1.3	
Bishop's Falls	4.1	o	Jerseyside	1.1	
Bonavista	4.2	o	Lawn	1.0	
Botwood	4.1	o	Lewisporte	3.2	o
Burgeo	2.2		Marystown	5.0	0
Burin	2.6	o	Mount Pearl	7.2	0
Carbonear	4.7	o	Norris Arm	1.2	
Catalina	1.1		Placentia	2.2	
Chan.-Port aux Bas.	5.9	0	Pouch Cove	1.5	
Clareville	2.1		Ramea	1.2	
Corner Brook	26.3	⊙	Roberts's Arm	1.0	
Deer Lake	4.4	o	Roddickton	1.2	
Dunville	1.7		St. Alban's	1.9	
Englee	1.1		St. Anthony	2.6	o
Fogo	1.6		St. George's	2.1	
Fortune	2.7	o	St. John's	88.1	⊙
Freshwater	1.6		St. Lawrence	2.2	
Gander	7.7	0	Spaniard's Bay	1.8	
Glovertown	1.9		Springdale	3.2	o
Grand Bank	3.8	o	Stephenville	7.8	0
Grand Falls	7.7	0	Stephenville Cross.	2.1	
Happy Valley	4.9	o	Trepassey	1.4	
Harbour Breton	2.2		Twillingate	1.4	



NEWFOUNDLAND

TOWN	POP'N/SIZE	CATV/REF.
Upper Isl. Cove	1.8	
Wabana	5.4	0
Wesleyville	1.1	
Whitbourne	1.2	
Windsor	6.6	0

NORTHWEST TERRITORIES

TOWN	POP'N/SIZE	CATV/REF.
Fort Smith	2.4	
Hay River	2.4	
Inuvik	2.7	o
Yellowknife	6.1	0

PRINCE EDWARD ISLAND

Charlottetown	19.1	⊙
Kensington	1.1	
Montague	1.6	
Parkdale	2.3	
St. Eleanors	1.6	
Sherwood	3.8	o
Souris	1.4	
Summerside	9.4	0
Tignish	1.1	

YUKON

Whitehorse	11.2	⊙
------------	------	---



The data source is CRTC (Annual Report 71-72).

The geographic location of these stations is given in "MAPS, BROADCASTING UNDERTAKINGS IN CANADA" (CRTC, 1972).

This information has been extracted, collated and tabulated from TV Factbook 71-72.

The headings of these tables are self-explanatory.

This information is derived from "MAPS, BROADCASTING UNDERTAKINGS IN CANADA" (CRTC, 1972).

Source D.O.C.

This section deals with

- o Canadian TV transmitters.
- o U.S. TV transmitters.

Canadian Stations

TV stations, their network affiliation, call sign and location are given for each Province or Region in the following tables.

U.S. Stations

Salient data of TV stations in the U.S. which are picked up off-the-air by Canadian CATV systems are given in the following tables.

The approximate locations of these stations are indicated on all maps appearing in this report.

Microwave Systems

Microwave systems used to convey TV signals from Canadian and U.S. stations to CATV systems are summarized in the following tables.

Additional licensed systems are indicated with asterisks.



CBC ENGLISH

CBTD-TV Cassiar
 CBTD-TV-1 Fort Nelson
 CBUAT Trail
 CBUAT-1 Grand Forks
 CBUAT-2 Castlegar
 CBUBY-3 Invermere
 CBUCT Nelson
 CBUCT-1 Crawford Bay
 CBUCT-2 Creston
 CBUOT-TV Bonnington
 CBUT Vancouver
 CBUT-1 Courtenay
 CBUT-2 Chilliwack
 CBUT-3 Port Alberni
 CBUT-4 Bowen Island
 CBUT-5 Squamish
 CBUT-6 Hope
 CBUT-7 Ucluelet
 CFAL-TV-1 Tasu
 CFEN-TV-1 Enderby
 CFFI-TV-1 Malakwa
 CFJC-TV Lillooet
 CFJC-TV-1 Kamloops
 CFJC-TV-2 Ashcroft
 CFJC-TV-3 Merritt
 CFJC-TV-4 Clinton
 CFJC-TV-5 Williams Lake
 CFJC-TV-6 Mt. Timothy
 CFJC-TV-7 Savona
 CFJC-TV-8 Adams Hill
 CFJC-TV-9 Boston Bar
 CFJC-TV-10 Clearwater
 CFJC-TV-11 Quesnel
 CFJC-TV-12 Promontory Mtn.
 CFJC-TV-13 Avola
 CFJC-TV-14 Canoe Mtn.
 CFJC-TV-15 Bralorne
 CFJC-TV-16 Boss Mtn.
 CFJC-TV-17 Shalalth
 CFJC-TV-18 Pine Valley
 CFHF-TV-1 East Georgie
 CFKB-TV-1 Newcastle Ridge
 CFKB-TV-2 Kokish
 CFKB-TV-3 Port Hardy
 CFKB-TV-4 Sointula
 CFKY-TV-1 Holberg
 CFMZ-TV-1 Lillooet
 CFNV-TV-1 Camp Woss
 CFNV-TV-2 Nimpkish
 CFSB-TV-1 Lalakata Point

CFSB-TV-2 South Bentinck Arm. Narrows
 CFSB-TV-3 Cathedral Point
 CFTK-TV Terrace
 CFTK-TV-1 Prince Rupert
 CFTK-TV-2 Smithers
 CFTK-TV-3 Burns Lake
 CFTK-TV-4 Kildala
 CFTK-TV-5 Kemano
 CFTK-TV-6 Mass Camp
 CFTK-TV-7 Juskatla
 CFTK-TV-8 Mt. Parizeau
 CFTK-TV-9 Ocean Falls
 CFTK-TV-10 Houston
 CFTK-TV-11 Hudson Bay Mtn.
 CFWS-TV-1 Falkland
 CFWS-TV-2 Westwold
 CFZQ-TV-1 Revelstoke
 CFZQ-TV-2 Mica Creek
 CFZQ-TV-3 Potlach Creek
 CHBC-TV Kelowna
 CHBC-TV-1 Penticton
 CHBC-TV-2 Vernon
 CHBC-TV-3 Oliver
 CHBC-TV-4 Salmon Arm
 CHBC-TV-5 Enderby
 CHBC-TV-6 Celista
 CHBC-TV-7 Skaha Lake
 CHBC-TV-8 Canoe
 CHEK-TV Victoria
 CHGP-TV Princeton
 CHID-TV-1 Lumby
 CHKC-TV-1 Keremeos
 CHKC-TV-2 Oialla
 CHKC-TV-3 Cawston
 CHLK-TV-1 Logan Lake
 CHPP-TV-1 Mabel Lake
 CHPT-TV-1 Peachland
 CHQC-TV-1 Mt. Poole
 CHVT-TV-1 King Island
 CHWH-TV-1 Alta Lake
 CJDC-TV Dawson Creek
 CJDC-TV-1 Hudson Hope
 CJDC-TV-2 Bullhead Mtn.
 CJNA-TV-1 Spences Bridge
 CJNP-TV-1 Nakusp
 CJWR-TV-1 Cherryville
 CKCC-TV-1 Kwinatahl
 CFQC-TV-1 Quesnel
 CKHF-TV-1 East Georgie
 CKHF-TV-2 Mt. Dolly

CKMY-TV-1 Midway
 CKPA-TV-1 Port Alice
 CKPG-TV Prince George
 CKPG-TV-1 Hixon
 CKPG-TV-3 Fort Fraser
 CKPG-TV-4 Mackenzie
 CKPG-TV-5 Fort St. James

CTV NETWORK

CFEN-TV-2 Enderby
 CHAN-TV Vancouver
 CHAN-TV-1 Chilliwack
 CHAN-TV-2 Bowen Island
 CHAN-TV-3 Squamish
 CHAN-TV-4 Courtenay
 CHAN-TV-5 Brackendale
 CHID-TV-2 Lumby
 CHKL-TV Kelowna
 CHKL-TV-1 Penticton
 CHKL-TV-2 Vernon
 CHKM-TV Kamloops
 CHMC-TV-1 Mica Creek (Site 1)
 CHMC-TV-2 Mica Creek (Site 2)
 CHSH-TV-1 Chase (Adams Hill)
 CHSH-TV-2 Chase (White Lake)
 CJTV-TV-1 Port Renfrew
 CKLK-TV-2 Logan Lake
 CKUP-TV-1 Ucluelet

INDEPENDENT

CHMS-TV-1 Crescent Valley, B.C.
 CHMS-TV-2 Passmore, B.C.
 CHMS-TV-3 Perrys, B.C.
 CHSL-TV-1 New Denver, B.C.
 CJNP-TV-2 Nakusp, B.C.
 The above five stations are rebroadcasting stations of Spokane, Washington.



ALBERTA

CBC ENGLISH

CBTA-TV-3 Fort McMurray
 CBXAT Grande Prairie
 CBXAT-1 Peace River
 CBXAT-2 High Prairie
 CBXAT-3 Manning
 CBXT Edmonton
 CBXT-1 Athabasca
 CBXT-2 Whitecourt
 CBXT-3 Hinton
 CBXT-4 Jasper
 CBXT-5 Lac la Biche
 CFAC-TV Calgary
 CFAC-TV-1 Drumheller
 CFAC-TV-2 Banff
 CFFY-TV-2 Field
 CFLL-TV-2 Lake Louise
 CFON-TV-2 Oyen
 CHAT-TV Medicine Hat
 CHAT-TV-1 Pivot
 CHAT-TV-2 Maple Creek
 CHAT-TV-3 Bow Island
 CJOC-TV Lethbridge
 CJOC-TV-1 Coleman
 CJOC-TV-2 Brooks
 CJOC-TV-3 Burmis
 CFWP-TV-1 Waterton Park
 CKRD-TV Red Deer
 CKRD-TV-1 Coronation
 CKRD-TV-2 Banff
 CKSA-TV Lloydminster
 CKSA-TV-1 Meadow Lake
 CKSA-TV-2 Bonnyville
 CKVS-TV-1 Moyie (B.C.)

CBC FRENCH

CBXFT
 Edmonton

CTV NETWORK

CFCN-TV Calgary
 CFCN-TV-1 Drumheller
 CFCN-TV-2 Banff
 CFCN-TV-3 Brooks
 CFCN-TV-4 Burmis
 CFCN-TV-5 Lethbridge
 CFCN-TV-6 Drumheller
 CFFY-TV-1 Field
 CFJL-TV-1 Sundre
 CFLL-TV-1 Lake Louise
 CFMH-TV-1 Crimson Lake
 CFMH-TV-2 Rocky Mountain House
 CFON-TV-1 Oyen
 CFRN-TV Edmonton
 CFRN-TV-1 Grande Prairie
 CFRN-TV-2 Peace River
 CFRN-TV-3 Whitecourt
 CFRN-TV-4 Ashmont
 CFRN-TV-5 Lac la Biche
 CFWL-TV-1 Invermere
 CFWL-TV-2 Jubilee Mtn.

INDEPENDENT

CBXFT
 (part-time ETV)
 Edmonton



SASKATCHEWAN

CBC ENGLISH

CBCP-TV-1	Shaunavon
CBKMT	Moose Jaw
CBKMT-TV-2	Fort Qu'Appelle
CBKRT	Regina
CBKST-TV	Saskatoon
CBKST-TV-1	Stranraer
CBTA-TV-1	Uranium City
CBTA-TV-2	La Ronge
CFSS-TV	Carlyle Lake
CHSS-TV	Wynyard
CJFB-TV	Swift Current
CJFB-TV-1	Eastend
CJFB-TV-2	Val Marie
CJFB-TV-3	Riverhurst
CKBI-TV	Prince Albert
CKBI-TV-1	Alticane
CKBI-TV-2	North Battleford
CKBI-TV-3	Greenwater Lake
CKBI-TV-4	Nipawin
CKBI-TV-5	Big River
CKEL-TV-1	Elrose
CKEL-TV-2	Elrose
CKOS-TV	Yorkton
CKSS-TV	Yorkton

(with transmitter at Baldy Mtn., Man.)

CTV NETWORK

CFQC-TV	Saskatoon
CFQC-TV-1	Stranraer
CFQC-TV-3	Richmond Lake
CKCK-TV	Regina
CKCK-TV-1	Colgate
CKCK-TV-2	Willow Bunch
CKEL-TV-3	Elrose
CKMJ-TV	Marquis
CKOV-TV-1	Fort Qu'Appelle

MANITOBA

CBC ENGLISH

CBTA-TV	Lynn Lake
CBWBT	Flin Flon
CBWGT	Fisher Branch
CBWHT	Grand Rapids
CBWIT	The Pas
CBWKT	Snow Lake
CBWLT	Gillam
CBWT	Winnipeg
CBWT-2	Lac du Bonnet
CBWTT	Thompson
CHGH-TV	Churchill
CKX-TV	Brandon
CKX-TV-1	Foxwarren
CKX-TV-2	Melita

CBC FRENCH

CBWFT	Winnipeg
-------	----------

CTV NETWORK

CJAY-TV	Winnipeg
---------	----------

ONTARIO

CBC ENGLISH

CBLAT	Geraldton
CBLAT-1	Manitowadge
CBLAT-2	White River
CBLAT-3	Wawa
CBLAT-4	Marathon
CBLAT-5	Beardmore
CBLT	Toronto
CBOT	Ottawa
CBWAT	Kenora
CBWCT	Fort Frances
CBWCT-1	Atikokan
CBWDT	Dryden
CBWDT-1	Sioux Lookout
CBWET	Red Lake
CBWJT	Ear Falls
CFCL-TV	Timmins (with rebroadcasting station in P.Q.)
CFCL-TV-2	Kearns
CFCL-TV-3	Kapuskasing
CFCL-TV-4	Hearst
CFPL-TV	London
CHEX-TV	Peterborough
CHEX-TV-1	Bancroft
CHEX-TV-2	Minden
CHNB-TV	North Bay
CHOV-TV	Pembroke
CJIC-TV	Sault Ste. Marie
CKLW-TV	Windsor
CKNC-TV	Sudbury
CKNC-TV-1	Elliot Lake
CKNX-TV	Wingham
CKPR-TV	Thunder Bay
CKVR-TV	Barrie
CKVR-TV-1	Parry Sound
CKVR-TV-2	Huntsville
CKVR-TV-3	Haliburton
CKWS-TV	Kingston

CBC FRENCH

CBFOT	Timmins
CBFOT-1	Kapuskasing
CBFOT-2	Hearst
CBFST	Sturgeon Falls
CBFST-1	Sudbury
CBFST-2	Temiscaming
CBFST-3	Elliot Lake
CBOFT	Ottawa

CTV NETWORK

CFCH-TV	Callander
CFCH-TV-1	Temiscaming
CFTO-TV	Toronto
CJOH-TV	Ottawa
CJSS-TV	Cornwall
CKCO-TV	Kitchener
CKCO-TV-2	Warton
CKSO-TV	Sudbury
CKSO-TV-1	Elliot Lake
CKSO-TV-2	Timmins
CKSO-TV-3	Kearns

INDEPENDENT

CHCH-TV	Hamilton
CICA-TV (ETV)	Toronto



QUEBEC

CBC ENGLISH

CBMT	Montreal
CFCL-TV-5	Malartic
CFCL-TV-6	Chapleau
CFGW-TV-1	Bechervaise Mtn.
CFGW-TV-2	Mont Blanc
CKMI-TV	Québec
CKMU-TV-1	Murdochville

CBC FRENCH

CBFAT	Chibougamau
CBFAT-1	Chapais
CBFCT-1	Magdalen Island
CBFT	Montréal
CBFT-1	Mont-Tremblant
CBFT-2	Mont Laurier
CBTB-TV	Havre St. Pierre
CBVT	Québec
CBVT-1	St. Georges de Beauce
CBVT-2	La Tuque
CBVT-3	Lac Mégantic
CFKL-TV	Schefferville
CHAU-TV	Carleton
CHAU-TV-1	Ste. Marguerite Marie
CHAU-TV-2	St. Quentin, N.B.
CHAU-TV-3	Port Daniel
CHAU-TV-4	Chandler
CHAU-TV-5	Percé
CHAU-TV-6	Gaspé
CHAU-TV-7	Rivière-au-Renard
CHAU-TV-8	Cloridorme
CHAU-TV-9	L'Anse à Valteau
CHLT-TV	Sherbrooke
CJBR-TV	Rimouski
CJBR-TV-1	Edmundston, N.B.
CKBL-TV	Matane
CKBL-TV-1	Mont Clément
CKBL-TV-2	Murdochville
CKBL-TV-3	Grande Vallée
CKBL-TV-4	Mont Louis
CKBL-TV-5	Causapascal
CKBL-TV-6	Matane
CKHQ-TV-1	Manicouagan 5
CKHQ-TV-2	Outardes 4
CKHQ-TV-3	Micoua
CKHQ-TV-4	Outardes 3
CKHQ-TV-5	Mont Georges
	Manicouagan 3

CKRN-TV	Rouyn
CKRN-TV-1	Senneterre
CKRN-TV-2	Val d'Or
CKRN-TV-3	Ville-Marie
CKRN-TV-4	Matagami
CKRS-TV	Jonquiére
CKRS-TV-1	Port Alfred
CKRS-TV-2	Chicoutimi
CKRS-TV-3	Roberval
CKRS-TV-4	Alma
CKRT-TV	Rivière-du-Loup
CKRT-TV-1	Baie St. Paul
CKRT-TV-2	Ste. Rose du Déglé
CKRT-TV-3	Rivière-du-Loup
CKRT-TV-4	Cabano
CKRT-TV-5	St. Urbain
CKTM-TV	Trois-Rivières

CTV NETWORK

CFCF-TV	Montreal
---------	----------

INDEPENDENT FRENCH

CFCM-TV	Québec
CFTM-TV	Montréal
CJPM-TV	Chicoutimi



NEW BRUNSWICK

CBC ENGLISH

CHMT-TV	Moncton
CHSJ-TV	Saint John
CHSJ-TV-1	Bon Accord
CKAM-TV	Upsalquitch Lake
CKAM-TV-1	Newcastle
CKCD-TV	Campbellton

CBC FRENCH

CBAFT	Moncton
-------	---------

CTV NETWORK

CJCH-TV	Halifax
CJCH-TV-1	Canning
CJCH-TV-6	Caledonia
CKCW-TV	Moncton
CKLT-TV	Saint John

PRINCE EDWARD ISLAND

CBC ENGLISH

CBCT	Charlottetown
------	---------------

NOVA SCOTIA

CBC ENGLISH

CBHT	Halifax
CBHT-1	Liverpool
CBHT-2	Shelburne
CBHT-3	Yarmouth
CBHT-4	Sheet Harbour
CBHT-5	New Glasgow
CJCB-TV	Sydney
CJCB-TV-1	Inverness
CJCB-TV-2	Antigonish

CBC FRENCH

CBFCT	Cheticamp (with rebroadcasting station, at Magdalen Island, P.Q.)
CBHFBT	Yarmouth
CBHFT	Halifax

CTV NETWORK

CJCH-TV	Halifax
CJCH-TV-1	Canning
CJCH-TV-6	Caledonia

NEWFOUNDLAND

CBC ENGLISH

CBNAT	Grand Falls
CBNAT-1	Baie Verte
CBNAT-2	Buchans
CBNAT-4	St. Anthony
CBNAT-5	Millertown
CBNT	St. John's
CBNT-1	Port Rexton
CBNT-2	Placentia
CBNT-3	Marystown
CBNT-4	St. Albans
CBTC-TV	Churchill Falls
CBYAT	Deer Lake
CBYT	Corner Brook
CBYT-1	Stephenville
CBYT-2	Irishtown
CBYT-3	Bonne Bay
CBYT-4	Port-aux-Basques
CBYT-5	St. Andrews
CFLA-TV	Goose Bay
CFRT-TV-1	Ramea
CFTV-TV-1	Terrenceville
CHCB-TV-1	Cape Broyle
CHCL-TV	Labrador City

CBC FRENCH

CBTC-TV-2	Churchill Falls
-----------	-----------------

CTV NETWORK

CHCB-TV-2	Cape Broyle
CJCN-TV	Grand Falls
CJCN-TV-1	St. Albans
CJON-TV	St. John's
CJON-TV-1	Corner Brook
CJON-TV-2	Bonavista
CJON-TV-3	St. John's
CJON-TV-4	Deer Lake
CJOX-TV	Argentia
CJOX-TV-1	Grand Banks
CJOX-TV-2	Lawn
CJOX-TV-3	St. Lawrence
CJOX-TV-5	Terrenceville
CJTA-TV-1	Trepassey



YUKON

CBC ENGLISH

CBTE-TV-1	Watson Lake
CBTE-TV-2	Clinton Creek
CBTE-TV-3	Dawson
CBTE-TV-5	Elsa
CBTE-TV-6	Faro
CFWH-TV	Whitehorse

NORTHWEST TERRITORIES

CBC ENGLISH

CBTE-TV	Pine Point
CBTE-TV-4	Fort Smith
CFFB-TV	Frobisher Bay
CFYK-TV	Yellowknife
CHAK-TV	Inuvik

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>WASHINGTON</u>										833
Bellingham	KVOS-TV	12	229	45.7	141	2550	48.40.40	122.49.48	C	835
Seattle	KOMO-TV	4	100	16.2	550	1006	47.37.55	122.21.09	A	841
	KING-TV	5	100	15.1	570	1000	47.37.55	122.20.59	N	839
	KIRO-TV	7	316	63.2	820	1007	47.38.01	122.21.20	C	840
	KCTS-TV	9	275	55	587	1000	47.36.57	122.18.27	E	
	KTNT-TV	11	316	47.9	580	1000	47.28.43	122.32.32	I	
Spokane	KREM-TV	2	84.7	15.5	969	4549	47.35.42	117.17.53	A	843
	KXLY-TV	4	48	9.6	153	6030	47.55.18	117.06.48	C	844
	KHQ -TV	6	87.1	17.4	904	4549	47.34.53	117.17.47	N	842
	KSPS-TV	7	195	22.5	595	4225	47.34.34	117.17.58	E	
Tacoma	KTVW-TV	13	214	31.6	536	953	47.16.41	122.30.43	I	

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>MONTANA</u>										463
Great Falls	KRTV	3	30:5	6.1	358	3918	47.31.56	111.16.45	N	472
	KFBB-TV	5	100	20	540	4310	47.32.08	111.17.02	AC	471
Kalispell	KCFW-TV	9	26.5	5.3	240	6898	48.00.48	114.21.55	I	475

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>NORTH DAKOTA</u>										
Devil's Lake	WDAZ-TV	8	316	50	1458	2979	48.08.24	97.59.38	N	586
Fargo	WDAY-TV	6	100	11.2	1203	2149	47.00.43	97.11.58	N	589
Grand Forks	KTHI-TV	11	304	45.7	2063	3058	47.23.36	97.20.28	A	588
Minot	KMOT	10	214	42.7	687	2444	48.12.56	101.1 9.05	N	590
	KXMC-TV	13	245	24.5	1053	3123	48.03.02	101.20.29	AC	591
Pembina	KCND-TV	12	288	43.6	1457	2253	48.59.42	97.24.26	A	592
Valley City	KXJB-TV	4	97.7	10	2060	3120	47.16.45	97.20.18	C	593
Williston	KUMV-TV	8	93.3	18.6	878	3221	48.08.02	103 51.36	N	594
	KXMD-TV	11	130	13	837	3137	48.08.22	103.53.24	C	595

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>MINNESOTA</u>										
Duluth	KDAL-TV	3	100"	20	813	2046	46.47.07	92.07.15	N	403
	WDSE-TV	8	316	47.9	585	2046	46.47.21	92.06.51	E	407
	WDIO-TV	10	316	31.6	859	2049	46.47.21	92.06.51	N	409
	WDIO-TV	10	316	31.6	859	2049	46.47.13	92.07.17	A	408
Hibbing	WIRT	13	125	21.6	473	2123	47.22.52	92.57.18	A	410
Walker	KNMT	12	31	6.2	996	2383	46.56.03	94.27.25	N	420
<u>WISCONSIN</u>										
Rhineland	WAEO-TV	12	288	57.6	1679	3323	45.40.02	89.12.27	N	886

CITY	STATION	CH	VIDEO	SOUND	ANT	HF	LATITUDE	LONGITUDE	N'WK	REF.
<u>MICHIGAN</u>										376
Bay City	WNEM-TV	5	100	20	1056	1632	43.28.13	83.50.35	N	379
	WUCM-TV	19	562	56.2	498	1102	43.33.43	83.58.54	E	
Cheboygan	WTOM-TV	4	100	20	590	1290	45.39.01	84.20.37	A N	381
Detroit	WJBK-TV	2	100	10	1057	1730	42.27.38	83.12.47	C	382
	WWJ -TV	4	97.7	9.8	1068	1753	42.28.59	83.12.20	N	384
	WXYZ-TV	7	316	31.6	1073	1733	42.28.15	83.15.00	A	387
	WKBD-TV	50	1090	1635	1049	1749	42.29.01	83.18.44	I	383
	WTVS	56	617	61.7	1049	1749	42.29.01	83.18.44	E	
	WXON	62	723	74.5	790	1749	42.31.41	83.27.53	I	386
Flint	WJRT-TV	12	316	31.6	999	1599	43.13.48	84.03.35	A	390
Marquette	WLUC	6	100	20	367	2242	46.26.57	87.37.49	C	396
Saginaw	WKNX-TV	25	302	30.2	476	1078	43.23.32	83.55.32	C	399
Sault Ste. Marie	WWUP-TV	10	251	50	1126	1837	46.03.49	84.06.08	AC	400

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>OHIO</u>										596
Acron	WAKR-TV	23	1000	138	960	2049	41.03.51	81.34.59	A	599
Cleveland	WKYC-TV	3	100	20	906	1945	41.23.10	81.41.23	N	608
	WEWS	5	93.3	10	851	1950	41.22.27	81.43.06	A	605
	WJW -TV	8	316	30.2	775	1945	41.21.47	81.42.58	C	606
	WVIZ-TV	25	500	250	814	1944	41.20.32	81.44.22	E	
	WKBF-TV	61	930	140	912	1976	41.22.45	81.43.12	I	607
Lorain	WUAB-TV	43	1030	220	919	1971	41.22.45	81.43.12	I	610
Toledo	WTOL-TV	11	316	38	1046	1625	41.40.22	83.22.47	C	624
	WSPD-TV	13	316	18.2	1049	1629	41.41.00	83.24.49	N	622
	WDHO-TV	24	363	72.4	1467	2046	41.40.03	82.21.22	A	621
	WGTE-TV	30	1170	234	1034	1625	41.39.27	83.25.55	E	

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF.
<u>PENNSYLVANIA</u>										662.
Eric	WICU-TV	12	316	31.6	789	2167	42.03.52	80.00.17	N	666.
	WJET-TV	24	500	52.5	600	1910	42.02.24	80.04.08	A	667.
	WSEE	35	2000	200	760	2100	42.02.20	80.03.45	C	668.
	WQLN	54	215	28.8	714	2014	42.02.30	80.04.05	E	

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF.
<u>NEW YORK</u>										512.
Buffalo	WGR-TV	2	100	20	958	2310	42.43.06	78.33.48	N	531.
	WBEN-TV	4	100	20	1059	2700	42.39.33	78.37.38	C	532.
	WKBW-TV	7	912	18.2	1076	2808	42.38.15	78.37.12	A	534.
	WNED-TV	17	910	91	738	1345	42.57.14	78.52.37	E	.
	WUTV	29	1250	105	955	1545	43.01.27	78.55.40		535.
Norwood	WNPI-TV	18	556	83.4	754	1989	44.29.30	74.51.29	E	.
Plattsburgh	WPTZ	5	25.1	4.27	977	3052	44.34.26	73.40.29	N	549.
Rochester	WROC-TV	8	316	48.5	346	1026	43.08.07	77.35.02	N	552.
	WHEC-TV	10	316	39.8	346	1026	43.08.07	77.35.02	C	550.
	WOKR-TV	13	316	47.9	361	1027	43.08.07	77.35.03	A	551.
	WXXI	21	1480	295	343	1026	43.08.07	77.35.02	E	.
Syracuse	WSYR-TV	3	100	20	594	2037	42.56.40	76.07.08	N	555.
	WHEN-TV	5	84	16.6	556	1914	42.57.19	76.06.34	C	553.
	WNYS-TV	9	79.6	11.8	964	2549	42.56.42	76.01.28	A	554.
	WCNY-TV	24	347	69.2	850	1111	42.56.42	76.01.28	E	.
Utica	WKTV	2	34.7	5.25	1065	2381	43.06.09	74.56.27	N	556.
	WUTR	20	916.2	137.4	423	1643	43.08.43	75.10.35	A	558.

A

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
NEW YORK (continued)										
Watertown	WWNY-TV	7	178	24	574	1696	43.57.16	75.43.45	N	560
	WNPE-TV	16	525	105	939	2509	43.51.44	75.43.40	E	

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>VERMONT</u>										
Burlington	WCAX-TV	3	37.6	7.4	116	4176	44.31.36	72.48.57	C	814
	WVNY-TV	22	501	75.9	324	4187	44.31.40	72.48.58	A	815
	WETK	33	251	50.1	96	4130	44.31.32	72.48.54	E	
St. Johnsbury	WVTB	20	42.7	7.8	131	3386	44.34.16	71.53.39	E	
<u>NEW HAMPSHIRE</u>										
Berlin	WEDB-TV	40	10.5	2.1	177	2437	44.22.16	71.12.53	E	508
Littleton	WLED-TV	49	36.7	7.4	443	2426	44.21.14	71.44.23	E	

CITY	STATION	CH	VIDEO	SOUND	ANT	HT	LATITUDE	LONGITUDE	N'WK	REF
<u>MAINE</u>										344
Augusta	WCBB	10	310	61.7	369	1049	44.09.16	70.00.37	E	
Bangor	WLBZ-TV	2	51.3	10.2	99	941	44.44.10	68.40.17	N	348
	WABI-TV	5	38.9	7.8	525	1745	44.42.15	69.04.42	G	346
	WENT	7	58.9	11.7	183	1180	44.45.35	68.34.01	A	347
Calais	WMED-TV	13	31.6	6.2	187	667	45.01.44	67.19.24	E	
Poland Spring	WMTW-TV	8	105	17.4	120	6874	44.16.13	71.18.13	A	349
Portland	WCSH-TV	6	100	20	1288	2533	43.51.33	70.42.43	N	350
	WGAN-TV	13	292	57.5	1619	2049	43.55.28	70.29.28	C	351
Presque Isle	WAGM-TV	8	58.9	5.4	292	962	46.43.44	68.00.07	ACN	352
	WMEM-TV	10	299	30	155	1762	46.33.05	67.48.37	E	
Orono	WBEB-TV	12	299	30	369	1346	44.45.36	68.33.59	E	



CATV SYSTEMS USING MICROWAVES

7.20

<u>Province</u>	<u>Location</u>	<u>Code</u>	<u>Cdn Stations</u>	<u>US Stations</u>
British Columbia	* Campbell River	04.06		
	Cranbrook	08.11	CJOC - TV	
	Fernie	11.14	CFCN - TV	
	Kimberley etc.	25.27	CJOC - TV	
			CFCN - TV	
			CJOC - TV	
	Merritt	29.32		KVOS - TV
Tahsis etc.	17.20	CHEK - TV		
			CHAN - TV	
Alberta	Hinton etc.	09.09	CFRN - TV-3	
Ontario	Geraldton	38.29	CKPR - TV	
	* Ottawa	75.71		
	* Pembroke	80.75		
	* Sault Ste. Marie	90.81		
	* Toronto	104.98		
	* Toronto/Rogers	108.97		
	* Toronto/Bramalea	12.11		
	* Toronto/Rexdale	83.00		
* Wawa	112.106			
Quebec	Baie Comeau etc.	108.11	CKAM - TV	
	* Baie St. Paul	09.10		
	Chapais etc.	20.20	CKRS - TV	
			CJPM - TV	
	Clermont etc.	22.00	CFCM - TV	
			CKMI - TV	
			CBVT - TV	
Cross Point etc.			WAGM - TV	
La Tuque	57.44	CBMT - TV		
		CFTM - TV		
		CFCF - TV		
		CHLT - TV		
	* Montreal			



<u>Province</u>	<u>Location</u>	<u>Code</u>	<u>Cdn Stations</u>	<u>US Stations</u>
New Brunswick	Campbellton etc.	01.02		WAGM - TV
	Fredericton etc.	03.03		WLBZ - TV WAGM - TV
	* Kedgwick			
Nova Scotia	Amherst			WLBZ - TV WMED - TV
	Dartmouth	00.02		WLBZ - TV WMED - TV
	Halifax	00.03		WLBZ - TV WMED - TV
	New Glasgow etc.	00.04		WLBZ - TV WMED - TV

* per DOC list.



A summary analysis, based on published data, has been presented in Section 6.

Such information is not available from any other known sources.

The results of the survey are presented in Volume 1.

The response to the survey is analyzed in this section.

Comments which CATV operators wished brought to the attention of DOC are presented at the end of this section.

The response to the survey has been satisfactory and allowed all targets to be achieved.

The number and quality of TV signals from distant sources, particularly U.S. stations, is a key factor in determining the need and potential demand for microwave systems.

Evaluation of reception conditions is one of the central targets of the survey.

Other issues dealt with are:

- o Evaluation of subscribers pressure to improve signal quality.
- o Evaluation of elasticity of market for signal improvement.
- o Verification and updating of published data.
- o Information on total investment and portion allocated to head-ends.
- o CATV operators' comments on any other issues of concern have been invited.

Thus, the survey aims to establish not only the articulated demand for microwave systems, but also to identify the conditions which determine the need and feasibility for such systems.

CATV SURVEY - STATISTICS

REPLIES	CANADA		B.C.		ONT.		QUE.		OTHER	
	#	%	#	%	#	%	#	%	#	%
Total Systems	360		64		108		146		45	
Replies by 31 Dec. 72	72		14		34		14		10	
Replies 1 Jan. - 15 Mar. 73	71		16		25		24		6	
Total Response	144	40	30	47	60	56	38	26	16	36

DISTRIBUTION OF REPLIES *

Systems > 5000 Subscribers	50	65	10	63	29	69	7	58	4	57
Systems 1000-5000 Subscribers	46	48	9	64	19	61	11	28	7	64
Systems < 1000 Subscribers	48	39	11	50	11	55	20	31	5	31

- NOTES: 1. The mailing of the bulk of survey questionnaires was completed on 1 Dec. 72.
 2. An additional letter requesting response was mailed early in January to all CATV system operators who had not responded.

* The percentage refers to numbers of systems in each category whose size is known.
 (See Tables 5.13-5.15)



This facilitates a summary presentation of results in the form of histograms for each province or region.

The same criteria were applied to signals derived from Canadian and U.S. stations.

These factors have been assigned arbitrarily to reflect subjective experience of quality and produce a wide spread of results.

These results fall into four main categories:

- o Analysis of investment.
- o Evaluation of subscribers' pressure for system improvement.
- o Effect of such improvement on subscribers and rates.
- o Technical and economic feasibility of such improvement.

Reception Conditions

For purposes of statistical analysis it is desirable to establish a single figure of merit.

To this end, the following weighting factors were assigned to reported reception quality.

Excellent	1.00
Very Good	0.80
Good	0.50
Poor	0.10
Unusable	-0.10

Other Factors

No other replies in numerical format require evaluation.

They are tabulated on page 8.04 and/or are presented in graphical form in the text of Volume 1.

SIZE	B.C.	ONT.	QUE.	OTHER	TOTAL
------	------	------	------	-------	-------

GREAT PRESSURE

●	0	7	2	3	12
◦	2	8	1	1	13
•	0	1	1	0	2
ALL	2	16	4	4	27

SOME PRESSURE

●	6	16	1	1	24
◦	7	9	9	0	25
•	5	1	3	0	9
ALL	18	26	13	1	58

NO PRESSURE

●	2	2	3	2	9
◦	1	6	6	2	15
•	5	1	2	3	11
ALL	8	9	11	7	35

▲ Subjective evaluation of subscribers' pressure for better quality.

Subjective evaluation of potential benefits & economic feasibility. ▶

SIZE	B.C.	ONT.	QUE.	OTHER	TOTAL
------	------	------	------	-------	-------

INCREASE IN SUBSCRIBERS (AVG. \$)

●	.46	0.66	1.50	1.00	
◦	1.27	1.70	3.50	1.50	
•	0.75	2.50	1.50	4.00	
ALL					

INCREASE IN FEES (AVG. %)

●	7	22	55	15	
◦	5	11	24	>100	
•	5	20	23	>100	
ALL					

SELF FINANCING FEASIBLE

●	6	16	4	2	28
◦	6	10	3	1	20
•	1	0	0	0	1
ALL	13	26	7	3	49

MICROWAVE SYSTEM NEEDED

●	6	6	0	3	15
◦	3	8	1	2	14
•	3	1	1	1	6
ALL	12	15	2	6	35



BRITISH COLUMBIA

	<u>Code</u>	<u>City</u>	<u>CATV Systems</u>	<u>Comments</u>	<u>Page</u>
1.	30 33 G	Montrose	Community Video Ltd.	Consortium & Prov. Systems.	8.07, 8.08 & 8.09
2.	31 34 D	Nanaimo	Community Video Ltd.	Same as for item 1	
3.	33 36 E	Nelson	North West Comm. Video Ltd.	Same as for item 1	
4.	37 61 C	N/W Vancouver	North West Comm. Video Ltd.	Same as for item 1	
5.	44 47 F	Robson Ridge	North West Comm. Video Ltd.	Same as for item 1	
6.	57 00 G	Victoria	Davin Enterprises Ltd.	General	8.10

ALBERTA

	<u>Code</u>	<u>City</u>	<u>CATV Systems</u>	<u>Comments</u>	<u>Page</u>
1.	02 02 G	Banff	Banff Community Antenna Ltd.	Consortium, Loc. Program Distribu- tion & Spec. Sys. Plans	8.11 & 8.12
2.	45 48 D	Red Deer	Community Video Ltd.	See item 1, B.C.	

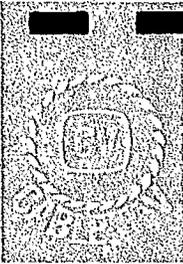


ONTARIO

	<u>Code</u>	<u>City</u>	<u>CATV Systems</u>	<u>Comments</u>	<u>Page</u>
1.	14 12 B	Brantford	Jarmain Cable TV	Spec. Sys. Plans	8.13 &
2.	58 51 B	London	London Cable TV Ltd.	Same as for item 1	8.14
3.	79 74 F	Parry Sound	Radio & TV Distribution Ltd.	General	8.15
4.	97 89 O	Clinton	Airland Communication Ser. Ltd.	General	8.16
5.	102 00 E	Timmins	Super Antenna Ltd.	Spec. Sys. Plans	8.17

NOVA SCOTIA

	<u>Code</u>	<u>City</u>	<u>CATV Systems</u>	<u>Comments</u>	<u>Page</u>
1.	00 03 E	Halifax	Halifax Cablevision Ltd.	General	8.18



COMMUNITY VIDEO LTD.

1471 Pemberton Avenue, North Vancouver, B.C.
Telephone: 985-2151 (Area Code 604)

February 2, 1973.



ASDA Limited
#705 - 77 Metcalfe Street
Ottawa, Ontario K1P 5L6

Gentlemen:

Our comments regarding Section C, Item A, relating to a CATV Consortium are as follows.

We have long been advocates of standardization of the CATV diet in a given geographic area. We feel that by so doing there is less confusion caused to the subscriber paying for the CATV service when he moves from one system to another and from one city to another within a specific geographic area. It saves the subscriber from expending funds in order to have his tuner "tweaked" to bring in the desired channels, should they be different from those he had previously. The consortium aspect is working extremely well in the cities of Calgary, Edmonton and Red Deer and appears to be a most economically sound method of assuring that everyone in the consortium will receive the signals which the consortium picks up at the most economical cost. In other words, everyone shares in the cost of the headend and the fact that all the operators who are involved in the consortium also subscribe to the microwave facilities of the Alberta Government Telephones (in this case) and are getting a much better price break than they would had they each embarked on their own. Another advantage of consortia is the fact that program deletion and substitution as well as commercial deletion and substitution can be performed by the consortia, thereby eliminating a very expensive installation at each CATV operators' headend or hub. The advantages, we suggest, far out-weigh any possible disadvantages which we cannot envisage.

We would like to go on record stating that we would be opposed to any single large operator owning the headend facilities and selling these signals from this headend to other operators within a specific geographic area.

.....2

ASDA Limited

- 2 -

February 2, 1973



The proof of success is evidenced by what has been done by the Mount Kelly Consortium, known as MKC Limited. It would, in our opinion, be a retrograde step to seek any other direction.

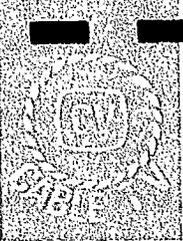
Yours very truly,

Alex E. Dworkin,
Executive Vice-President
COMMUNITY VIDEO LIMITED

and the Community Video Group of CATV's

AED/lc
Enc.

8.08



COMMUNITY VIDEO LTD.

1471 Pemberton Avenue, North Vancouver, B.C.
Telephone: 985-2151 (Area Code 604)

FEB 0 8 1973

February 2, 1973



ASDA Limited
#705 - 77 Metcalfe Street
Ottawa, Ontario K1P 5L6

Gentlemen:

Our comments regarding Section "C", Item B of the Provincial CATV Systems are as follows.

It is quite clear to us that the CRTC have enunciated the policy which directs the CATV operator to supply a channel to the Provincial Government for educational use. We are in full accord with this policy and would welcome all provinces into the educational field of telecasting. It is our Company's philosophy, which we are sure is shared by many people across Canada, that no provincial government should be given access to television stations, or for that matter any other broadcasting media, for propaganda purposes.

We are unalterably opposed to the concept enunciated by the Saskatchewan Provincial Government regarding CATV, since we feel that their philosophy is completely contradictory to the democratic and competitive way of life.

We hope and pray that the CRTC, and for that matter the DOC if they have any regulatory authority in this matter, will not see fit to license such provincially-operated systems.

Yours very truly,

Alex E. Dworkin,
Executive Vice-President,
COMMUNITY VIDEO LIMITED

and the Community Video Group of CATV's

AED/lc
Enc.

8.09



BC 57 00 G

19 March 73

Mr. R.V. Mielen,
Davin Enterprises Ltd.,
1202 Wharf St.,
Victoria, B.C.

Re: CATV Survey

Quality of our off-air signals, negates any consideration of cost investment to justify microwave feed at present subscriber's standard of acceptance.

Quantity over quality seems to be the subscriber's greatest demand. Quality of a signal is a relative thing in the minds of the subscriber. Our indications reveal that in excess of 50% of the receivers recently connected to our newly constructed expansion, were in need of service. Excellence of signals originating from networks and for the transmitters must also be improved.



A 02 02 G

19 March 73

Mr. Bert Henderson,
Banff Community Antenna Ltd.,
Box 1092,
Banff, Alta.

Re: CATV Survey

Re: B2 with reference to the economical feasibility of microwave.

If we had microwave I am sure that the increase in the number of subscribers to the system would make it possible for the company to contribute considerably to the cost of microwave. Between Calgary and Banff there are five communities without cable that have poor TV due to them being in the mountains and two between Banff and the B.C. border, a distance of forty miles.

Banff Community Antenna Ltd.

BRINGING T.V.
TO BANFF

DEC 04 1972

Box 1092,
BANFF, ALBERTA

(C) General Comments Re: A.D.&E.

TELEPHONE
762-
0
762-2598

Our System was started in 1975, and by 1960&61, with only one channel we had approximately 400 subscribers, then in 1962 we received 2 more channels, but at the same time three translators were erected in town and we began to loose out, until now we are at about 80 subscribers, these we are holding because I give them one F.M. station from Calgary, one A.M. station from Calgary and the hope of getting microwave from Calgary giving them 2 or 3 U.S. stations & possibly one French Channel from Edmonton, plus several F.M. stations.

The Banff School of Fine Arts, a branch of the U.of A. Edmonton, which is situated in Banff intend to add broadcasting to their curriculum, and have french. They have offered the space for a studio and the cost of tie into the system for local program distribution, if they can receive the french channel from Edmonton, which can only be had via microwave. If Banff could become part of CATV Consortium through the use of microwave, Banff along with other members could have access to some of the finest entertainment through association with the school, adult education for the Banff school could be invaluable.

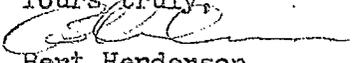
We are being pressured from allsides to bring to Banff that which they have in the cities of Calgary & Edmonton, 9 channels and expecting more plus several F.M. Channels. Our only hope so far is the promise by the A.G.T. branch of the Provincial Government, to include Banff in their 10 City Plan, when it becomes economically feasible.

Microwave is the only solution fo the situation in Banff, the only way we can have anything more than what we have, is for our system to be able to deliver more than what the translators do, additional T.V. & F.M. along with our own local programs, would enable us to increase our subscribers and be able to expand and play the part of which we are capable. Banff is only 50 air miles from Calgary, two microwave hops should be all that is required..

Banff with approximately 1200 homes, 70 hotel & motels and growing, situated in Banff National Park, one of the largest tourist attractions in Canada, should warrnt better communications.

The situation at this point is such, that if the company does not get assurance that they will have microwave in the near future, we must go out of business, leaving Banff with only one CTV Channel & two CBC affiliated Channels, one being a duplication.

Yours truly,


Bert Henderson.
BH/HH.

C - Specific Comments Re London Cable TV Future Requirements



It is anticipated that within the next 5 years our system will be completely rebuilt, utilizing 20+ channel - two way equipment.

With the advent of greater channel capability we also anticipate offering additional channels to augment our present service. An optional package could very well consist of channels we had to delete previously, due to other stations being licensed. Under those circumstances we could offer such channels as 3 and 8 - Cleveland, 2, 5, 7 and 50 - Detroit. In order to make such a package attractive enough we would have to microwave these channels for an estimated 2 hops in order to improve the picture quality and reliability.

In addition, we anticipate that, in order to maintain acceptable design standards of two way systems, it will be essential to go to a "hub" system to reduce cascade length. This would require additional broadband microwave application to transport signals from a remote headend to the "hub" input.

C - General Comments

We believe that future microwave requirements for the CATV industry will basically break down into two categories:

1. Intercity microwave.
2. Intracity microwave.

1. The intercity links will most likely consist of limited television channel requirements (1 to 6) and by its very nature would be over long distances. Ultimately, it could go from coast to coast. It would be essential, of course, to allocate the lowest possible frequency for this application (6 to 7 GHz). It may perhaps be difficult to find sufficient spectrum available in the major metropolitan areas; on the other hand, outside of these areas this may prove to be very practical since spectrum crowding is not a problem here.

2. The intracity requirements will require large blocks of spectrum, where for example a number of CATV operators will wish to share a common headend and microwave 10 - 20 or more television channels to the input of their systems. In addition, very large systems will require several "hubs" to improve overall system performance by limiting the cascade length of their systems. Again, the foregoing can be readily achieved by using broadband microwave.

It is essential that in Canada we very carefully consider what this implies. To the best of our knowledge, it is only a small number of American firms that are presently, or for that matter that will in the near future, be manufacturing equipment that meet those requirements, e.g., Laser Link, Theta-Com, Varian/Micro-Link. All of this equipment, of course, has been designed to operate in the "CARS Band" (12.7 to 12.95 GHz). For obvious reasons, we think that it is most desirable, if not a must, to be able to operate in the same part of the spectrum, since it is highly unlikely that special equipment for another part of the spectrum is forthcoming or economically feasible.

In summary then, we would recommend that:

1. The DOC consider low frequency (6 - 7 GHz) assignment for intercity CATV microwave.
2. The DOC consider assigning an intercity frequency based upon spectrum availability as opposed to one single assignment for CATV intercity microwave for all of Canada.
3. The DOC consider granting the U.S. CARS Band equivalent for intracity microwave in Canada.
4. The DOC investigate alternatively the practicality of assigning another part of the spectrum that would allow modification of existing CARS Band equipment without creating any severe cost penalty.





O 79 74 F

19 March 73

Mr. Norman Bradley,
Radio & T.V. Distribution Ltd.,
9 Riverdale Rd.,
Parry Sound, Ont.

Re: CATV Survey

A microwave system for the (3) American Networks is in great need for Parry Sound. We would be willing to pay for a Feed, but unable to support an extensive microwave system.

FEB 16 1973



AIRLAND COMMUNICATION SERVICES LIMITED

PHONE 245-2200

STRATHROY, ONTARIO



R.R.#3,
Clinton, Ontario.
February 14, 1973.

ASDA Communications Consultants,
77 Metcalfe St.,
OTTAWA, Ontario.
K1P 5L6

K.

Gentlemen:

It is our feeling that to expand cable television to the smaller communities, the use of microwave is an absolute must. BP-23 is very specific as to SIGNAL TO NOISE RATIO within a cable system. I feel that some consideration should be given to the customer in regards to signal to noise ratio at the CATV antennas. Here again, microwave is the only answer in areas where channels are long haul.

It seems only reasonable that the people in distant communities should be entitled to equal viewing to those who live in the major centres.

Microwave for CATV is very feasible, in most cases economical, as long as the CATV operator does not have to become married to a common carrier.

We need microwave and have no intention of using it for those situations which would reasonably be the responsibility of a common carrier. Microwave for CATV should be owned by the CATV operators and used for CATV purposes only.

Yours truly,

A handwritten signature in dark ink, appearing to read 'Ron McIntosh Jr.', written over a light-colored background.

Ron McIntosh Jr.,
President.

RMcI:mj



O 102 00 E

19 March 73

Mr. B.W. Anderson,
Super Antenna Ltd.,
Box 1036,
Timmins, Ont.

Re: CATV Survey

A copy of our microwave brief was submitted to the CRTC in 1968 to install 3 hops of microwave.



NS 00 03 E

19 March 73

Mr. Keith Smiley,
Halifax Cablevision Ltd.,
5841 Bilby Rd.,
Halifax, N.S.

Re: CATV Survey

Due to heavy charges by the Common Carrier it is almost impossible to conceive how some of the smaller systems in the Maritimes will ever be in a position to afford microwave facilities. It is therefore imperative that some method of lowering these charges be found.

21 March 73

Mr. H.D. Shiel, Committee Secretary,
B.C. Region Microwave Committee,
5594 Cambie St.,
Vancouver 15, B.C.



Re: CATV Survey

a) CATV Consortium: Through the work of this Committee, B.C. operators are attempting to form together to establish one or two major microwave networks. At this point in time, it would appear that there will be one antenna site somewhere in the region of Vancouver or Victoria which will be linked via microwave to deliver up to four channels to operators on Vancouver Island, the 'Lower Mainland' - ie Greater Vancouver and the Fraser Valley, and one antenna site in the south of central B.C. which will be linked via microwave to deliver up to four channels to operators in the Okanagan and Kootenay areas.

b) Provincial CATV Systems: It is not clear what the purpose is of asking for comments on such systems in a microwave survey. The following comments are related to microwave networks which are assumed to link together the majority of CATV systems within a Province. There is a possibility that the above mentioned networks under consideration in (a) could eventually become a Province-wide single microwave network. One advantage of such a network would be to have a central location where the deletion and substitution of commercials could be effected prior to the carriage of the U.S. stations on the microwave network. A further advantage would be the ease of carriage of the proposed third Vancouver television station throughout the Province or the carriage of Provincial ETV.



c) Frequency Allocations: The most significant problem re allocation of frequencies is associated with the use of microwave in large urban CATV systems to replace long trunk lines. This would require single hop, multi-channel, intra-city microwave of the types currently in use in U.S.A. in the 12GHz band (known in U.S.A. as the C.A.R.S. band). The CATV industry in Canada is anxious to use equipment readily available from U.S.A. but understands that the D.O.C. is reluctant to allow the use of the 12GHz band for CATV in Canada, but would rather have CATV operators use the 14GHz band. The dilemma is that no equipment is available in this band nor is any U.S. manufacturer likely to modify any equipment except at high cost, nor is any Canadian manufacturer likely to develop such equipment for a limited Canadian market. Your analysis of this problem and possible solution to it would be of great benefit to the large system operators. It is logical to assume that such intra-system multi-channel microwave links should be owned and operated by the CATV operator rather than by common carriers. As to frequency allocation for short or long-haul microwave networks, it is the opinion of this Committee that the 2GHz band would best fit the requirements of CATV operators.

d) Local Program Distribution: CATV operators have a requirement for fixed or mobile single hop microwave links for local program distribution. It is considered that the existing D.O.C. regulations are too stringent and relate to high quality TV broadcast requirements, whereas CATV use could benefit from reduced specifications. It is also to the benefit of the CATV operator to own and operate such facilities.



ENQUETE CATV

NOUS VOUS DEMANDONS VOTRE COOPERATION EN NOUS FOURNISSANT
DES INFORMATIONS SUR VOTRE SYSTEME CATV.

CECI DONNERA AU MINISTERE FEDERAL DES COMMUNICATIONS LES
DONNEES NECESSAIRES CONCERNANT L'ETENDUE ET L'URGENCE DU
BESOIN EN SYSTEMES MICRO-ONDES POUR LA TELETRANSMISSION DE
SIGNAUX TV POUR DISTRIBUTION LOCALE PAR DES SYSTEMES CATV.

DE TELLES INFORMATIONS SONT ESSENTIELLES POUR TOUTE AUTORI-
SATION FUTURE DE TELS SYSTEMES.

- Cette enquête constitue une partie importante d'une étude
actuellement menée par le Ministère des Communications.
- Une description de cette étude est donnée dans les notes
jointes.
- Tout renseignement que vous donnerez sera considéré comme
confidentiel

Une prompte réponse serait vivement appréciée.

Sincèrement vôtre

M. Kassner, P. Eng.
Président.

ENQUETE CATV
NOTES EXPLICATIVES

P1006/DOC

1. L'apparition des systèmes CATV comme élément important des systèmes de communications est largement reconnue particulièrement suite à la politique du CRTC de permettre la transmission par micro-ondes des signaux U.S. jusqu'aux points de distribution.
2. Le développement de tels services, en ce qui concerne leur étendue la zone desservie et la qualité, est devenu une des préoccupations majeures du Ministère des Communications qui a certaines responsabilités dans le développement harmonieux des systèmes de communications dans l'intérêt des opérateurs de systèmes et, plus généralement, du public.
3. Nous avons été choisi par le Ministère des Communications pour effectuer une étude portant sur:
 - o la demande probable en systèmes micro-ondes intervilles pouvant couvrir les besoins CATV;
 - o les configurations probables des systèmes, et le tracé de tels réseaux;
 - o l'équipement convenable disponible ou envisagé;
 - o les caractéristiques techniques de tels systèmes etc.
4. Evidemment une étude de ce genre implique des considérations à la fois techniques et économiques.
5. En conséquence, nous demandons et sollicitons votre coopération pour confirmer les informations concernant votre système, que nous avons obtenues de sources diverses telles que: DOC, CRTC, CCTA, TV Fact Book...
6. Pour une plus grande efficacité, votre prompt réponse serait appréciée, en indiquant les renseignements dont vous disposez immédiatement.
 NOUS NE VOULONS PAS VOUS DEMANDER D'Y PASSER TROP DE VOTRE TEMPS.
7. Les renseignements reçus seront considérés comme commercialement confidentiels et seront utilisés pour obtenir une estimation globale des besoins en systèmes micro-ondes de ville à ville pour les services CATV.
8. Par la suite, ceci servira de donnée essentielle au DOC pour lui permettre de prendre une ou des décisions rapides (p. ex. pour l'attribution de fréquences à tels systèmes).
9. Le questionnaire comprend les parties suivantes:
 - A Données déjà publiées sur votre système
 - B Conditions de réception des signaux TV
 - C Vos propres commentaires sur les objectifs de cette enquête
 - D Données complémentaires sur votre système
10. Les organismes suivants ont reçu des copies de ce questionnaire: DOC, CRTC et CCTA.

Veuillez compléter et retourner la partie ci-dessous pour nous donner une idée de la date de l'étendue de votre réponse et pour être sûr qu'elle sera pleinement prise en considération.

**REPONSE
D'ATTENTE**

ASDA LTEE
 77 METCALFE, SUITE 705
 OTTAWA,
 K1P 5L6

A la date ci-contre nous répondons aux questions ci-dessous (✓):

per:

B		C	D		
1	2		1	2	3

P 1006

Avec nos commentaires sur:

A DONNEES PUBLIEES

L'Information publiée
(TV Fact Book 71/72)
sur votre système et son
opération est:

- correcte en gros
- mise à jour partie D
- augmentée partie D

aucune publiée

B CONDITIONS DE RECEPTION

QUALITE DE RECEPTION

Cette information sera considérée comme indiquant votre besoin d'amélioration. Il n'est pas question de l'interpréter par rapport aux normes DOC (nous avons volontairement choisi des catégories différentes de celles du BP23).

Utilisez s'il vous plait la NOTATION suivante pour les stations U.S. et CDN

- * par micro-ondes (existantes) Toute autre réception s'entend directement
- ** par micro-ondes (projetées) sur l'air

Indiquez dans le tableau ci-dessous le pourcentage (%) de temps estimé pendant lequel le signal est de la qualité indiquée dans chaque colonne (le total de chaque ligne doit donner 100%)

STATISTIQUES DE RECEPTION (ESTIMEES)

	* **	STATION TV	CANAL	SITE	EXCEL- lent	TRES BON	BON	FAIBLE	INUTI- SABLE	✓
US ▼										
CDN ▲										
EXEMPLE		XYZ TV	5	VILLE ELOIGNEE	20	40	25	10	5	

Remarques:

2

AMELIORATION DE LA RECEPTION

Est-ce que vos abonnés réclament une amélioration de qualité

non quelques uns beaucoup

Si vous pourriez obtenir des signaux excellents (p. ex. via micro-ondes) quel montant mensuel additionnel de prime pensez-vous que la majorité de vos abonnés seraient prêts à payer.

Avec ce nouveau tarif (augmenté) quelle augmentation du nombre d'abonnés pourriez-vous attendre en chiffre ou en pourcentage.

Considérez-vous une augmentation sensible de la qualité/sécurité de votre réception comme techniquement possible

impossible pas nécessaire désirable essentielle

Pour obtenir une augmentation sensible de la réception des signaux annotés (✓) dans la dernière colonne du tableau précédant le changement minimum serait:

o station de réception améliorée au même endroit

o changement de site de la station

o un bond supplémentaire en micro-ondes de longueur (miles)

o deux bonds supplémentaires en micro-ondes de longueur (miles)

o liaison complète en micro-ondes

Estimez-vous une telle amélioration économiquement possible

si vous deviez en supporter entièrement le coût par vos propres ressources?

impossible

C

COMMENTAIRES GENERAUX

Indiquez s'il vous plaît ci-dessous tout commentaire se rapportant à une installation (ou extension) rapide de systèmes micro-ondes pour assurer la distribution des programmes CATV. Nous soumettrons vos commentaires officiellement à la branche appropriée de DOC si vous l'indiquez.

Soumettez à DOC

(si indiqué)

- a o consortium CATV
- b o systèmes provinciaux CATV
- c o allocation des fréquences
- d o distribution de programmes
- e o projets particuliers de systèmes
- f o

Les commentaires annotés (✓) figurent sur des feuilles supplémentaires ci-jointes

D DONNEES COMPLEMENTAIRES

Les données figurant dans la partie A ont déjà été utilisées dans notre analyse générale des systèmes CATV, à travers le Canada

S'il vous plait ne complétez que les parties ci-dessous, pour lesquelles
 o aucun renseignement ne figure en partie A
 o les renseignements doivent être corrigés ou mis à jour

Veillez noter qu'aucun renseignement ne figure en partie A, pour aucun système CATV si le signe ◁ apparaît en face

1 ABONNES

Taxe d'installation	<input type="text"/>	Nombre actuel (en date de	<input type="text"/>
Prime mensuelle	<input type="text"/>	Nombre estimé en 1976	<input type="text"/>
		Familles pour lesquelles le service est disponible	<input type="text"/>
		Nombre total de familles	<input type="text"/>

2 INSTALLATION

capacité nombre de canaux TV actuelle projetée

Canaux TV : sur l'air Micro-ondes autres CDN U.S.

Système de distribution (miles) actuel projetée

Station de réception: Distance du centre de distribution (miles)

Emplacement.....

Type d'antenne(s).....

Hauteur au-dessus du sol (pieds).....

3 INVESTISSEMENT

Des renseignements sur l'investissement, en rapport avec toutes les autres informations que vous avez si aimablement fournies, nous aideraient à estimer la demande probable pour des systèmes micro-ondes, sur la base des prix généralement pratiqués.

Nous regrettons toute duplication apparente avec les informations récemment demandées par Statistiques Canada. Il serait cependant difficile, sinon impossible d'en extraire ce que nous désirons, pour des raisons de temps, de caractère confidentiel, et surtout parce que nous avons besoin de renseignements complets (Statistique Canada n'effectue la compilation que des renseignements sur l'investissement des systèmes de plus de 1000 abonnés, alors que nous prenons en considérations TOUS les systèmes).

Si vous ne souhaitez pas révéler les coûts réels, des pourcentages approximatifs de répartition des coûts nous aideraient beaucoup.

Données fournies valeur réelle (\$x1000) Pourcentage Total

Studio.....	<input type="text"/>	Station de Réception	<input type="text"/>
.....	<input type="text"/>	Système de distribution	<input type="text"/>

Soumis par

Retourner s.v.p à:

Nom

Situation

Signature

Date

ASDA LTR
 77 METCALFE, SUITE 705
 OTTAWA, CANADA
 K1P 5L6 TEL. 613-232-1141

QUEEN P 91 .C655 M549 1973 v
ASDA Limited
Microwave systems for CATV

