



## International Agreements

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### Radio

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	<b>Major Service</b>	<b>Frequency Bands</b>	<b>Date Signed</b>	<b>Effective Date</b>
<b>Canada Agreements</b>	<a href="#">AM Radio</a>	535-1605 kHz	Jan. 17, 1984	Jan. 17, 1984
<b>Broadcast</b>	<a href="#">AM Radio</a>	1605-1705 kHz	Dec. 28, 1990 Feb. 28, 1991	Feb. 28, 1991
<b>Non-Broadcast</b>	<a href="#">FM Radio</a> <a href="#">FM Radio Amendment</a>	88-108 MHz	Feb. 25, 1991, amended:Jul. 9, 1997	Feb. 25, 1991 Amended Jul. 9, 1997
<b>Satellite</b>				
<b>By Frequency Band</b>	<a href="#">Satellite Digital Audio Radio Service (S-DARS) (U.S.)</a>	2320-2345 MHz	Aug. 25-28, 1998	Aug. 28, 1998
<b>Mexico Agreements</b>	<a href="#">Terrestrial Digital Radio Broadcasting (T-DRB) (Canada)</a>	1452-1492 MHz	Aug. 25-28, 1998	Aug. 28, 1998
<b>Broadcast</b>				
<b>Non-Broadcast</b>	<a href="#">Satellite New Gathering (SNG)</a>	All Satellite News Gathering Frequencies	Aug. 7-10, 1992	Aug. 10, 1992
<b>Satellite</b>				

[By Frequency Band](#)

### Television

[Other Agreements](#)

	<b>Major Service</b>	<b>Frequency Bands</b>	<b>Date Signed</b>	<b>Effective Date</b>
<b>Other Agreements</b>	<a href="#">Digital Television(DTV LOU) VHF &amp; UHF</a>	54-72, 76-88, 174-216 & 470-806 MHz	Sept. 12-22, 2000	Sept. 22, 2000
	<a href="#">Digital Television (Amends DTV LOU) Channels 63 &amp; 68 for Public Safety</a>	TV Channels 63 & 68	Sept. 28 & Oct. 7, 2004	Oct. 7, 2004
	<a href="#">Television (Analog) VHF &amp; UHF</a>	54-88, 174-216 & 470-806 MHz	Nov. 3, 1993 Jan. 5, 1994	Jan. 5, 1994
	<a href="#">Digital Television (Post Transition Allotment Plan)</a>	54-72, 76-88, 174-216 & 470-698 MHz	August 5, 2008 and Dec 15, 2008	Dec 15, 2008

last reviewed/updated on 10/4/05

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**Donald Everist**

**From:** "James McLuckie" <James.McLuckie@fcc.gov>  
**To:** "Donald Everist" <cde@attglobal.net>  
**Cc:** "James Ballis" <James.Ballis@fcc.gov>  
**Sent:** Friday, May 29, 2009 1:08 PM  
**Subject:** RE: FM Working Agreement  
Mr. Everist:

The FM Agreement and subsequent amendment can be found at the following location:

[http://www.fcc.gov/ib/sand/agree/can\\_broad\\_agree.html](http://www.fcc.gov/ib/sand/agree/can_broad_agree.html)

Sincerely,  
James McLuckie

-----Original Message-----

**From:** Donald Everist [mailto:cde@attglobal.net]  
**Sent:** Friday, May 29, 2009 10:32 AM  
**To:** James McLuckie  
**Subject:** FM Working Agreement

How can we locate on the FCC website the latest US-Canadian FM Working Agreement? Thank you.

Donald G. Everist  
Cohen, Dippell and Everist, P.C.  
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DEPARTMENT OF STATE  
WASHINGTON

February 25, 1991

Excellency:

I have the honour to refer to your note No. 149 dated November 26, 1990, with an attached Working Arrangement, proposing an agreement between the Governments of the United States of America and Canada concerning the use of the 88 to 108 megahertz frequency band for frequency modulation broadcasting (FM). The new agreement would replace the agreement between the two Governments effected by the exchange of notes of January 8 and October 15, 1947 (the 1947 Agreement).

I have the further honour to inform you that the Government of the United States of America accepts the proposals contained in your note including its attached Working Arrangement and that this exchange of notes constitutes an agreement between the two Governments, which shall enter into force on the date of this note and shall supersede the 1947 Agreement.

Accept, Excellency, the renewed assurances of my highest consideration.

For the Secretary of State:

ORIGINAL SIGNED BY

Bradley P. Holmes

Enclosure:

Working Arrangement

His Excellency

Derek H. Burney,  
Ambassador of Canada.

*Canadian Embassy*

*Ambassade du Canada*

Note No. 149

WASHINGTON, November 26, 1990

Sir,

I have the honour to refer to the Exchange of Notes (January 8 and October 15, 1947) between Canada and the United States of America constituting an Agreement on the allocation of channels for radio broadcasting effective October 15, 1947 (the 1947 Agreement) and to the recent discussions between representatives of both Governments concerning the use of the 88 to 108 megahertz frequency band for frequency modulation broadcasting (FM). Furthermore, I have the honour to propose that the above-mentioned Agreement be replaced by the following.

In order to prevent undue interference between stations in the respective countries, the allotment and assignment of channels in areas adjacent to the border of Canada and the United States shall be in accordance with the conditions set forth herein and in the attached Working Arrangement.

For the purpose of this Note, the expression "Administrations" refers to the Department of Communications for Canada and the Federal Communications Commission for the United States of America. The Administrations shall exchange information and cooperate with each other for the purpose of minimizing interference and obtaining maximum efficiency in the use of FM broadcasting radio channels. To this end, the Administrations have accepted the attached Working Arrangement, including its Annexes. Tables A and B of Annex IV of the Working Arrangement may be revised by direct correspondence between the Administrations. The Administrations shall, as necessary, review the Working Arrangement and its implementation in light of domestic and international developments. Amendments to the Working Arrangement, other than revisions to Tables A and B of Annex IV, shall be accomplished by exchange of notes between the two Governments.

Notification of proposed revisions to Tables A and B of Annex IV shall be made to the other Administration in accordance with the provisions of the Working Arrangement. Assignments made within 320 kilometres of the border shall be in accordance with these Tables, as revised from time to time and shall be notified in accordance with the provisions of the Working Arrangement.

The Honourable James A. Baker, III  
Secretary of State  
7th Floor  
Department of State  
2201 C Street, N.W.  
Washington, D.C. 20520

Assignments made at points which are more than 320 kilometres from the nearest point on the border of Canada and the United States will normally have no international significance and need not be notified except in cases of unusual operating parameters where the possibility exists that interference could be caused to stations of the other Administration.

If the foregoing proposals are acceptable to the Government of the United States of America, I have the honour to propose that this Note, including the attached Working Arrangement, which are authentic in English and French, and your Note in reply shall constitute an Agreement between the Governments of Canada and the United States of America which shall enter into force on the date of your reply. Upon entry into force, this Agreement shall supersede the 1947 Agreement.

This Agreement may be amended through exchange of notes between the two Governments.

Either Government may terminate this Agreement at any time by giving written notice to this effect at least one year prior to the date contemplated for such termination.

Accept, Sir, the renewed assurance of my highest consideration.

ORIGINAL SIGNED BY

D.H. Burney  
Ambassador

**Working Arrangement  
for the Allotment and Assignment of  
FM Broadcasting Channels  
under the Agreement between the  
Government of Canada  
and the Government of the United States of America  
relating to the FM Broadcasting Service**

**Effective Date:** February, 1991

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## **1. Preamble**

Mutual undertakings concerning the allotment and assignment of FM Broadcasting Channels by Canada and the United States in the area lying within 320 kilometres of their common border are set out in the Agreement between the Government of the United States of America and the Government of Canada relating to the FM broadcasting service (1989 FM Agreement). The Arrangement set out herein states the basis upon which the Canadian and the United States Administrations shall consider responses to border area FM channel allotments and assignments proposed by the other Administration pursuant to the Agreement.

## **2. Basic Principles**

### **2.1 Channel designation**

FM broadcast channels are allotted in the band 88 to 108 MHz and are 200 kHz wide. Their center frequencies begin at 88.1 MHz and continue in successive steps up to and including 107.9 MHz as set forth in Annex I. FM allotments and assignments are classified in accordance with 2.2 and must conform with the distance separations under 2.4.

### **2.2 Classification and Maximum Parameters of Allotments and Assignments**

2.2.1 The classes and maximum parameters are as follows:

<b>Classes</b>	<b>Effective Radiated Power</b>	<b>Antenna Height Above Average Terrain</b>
A	3 kilowatts	100 metres
B1	25 kilowatts	100 metres
B	50 kilowatts	150 metres
C1	100 kilowatts	300 metres
C	100 kilowatts	600 metres

(U.S. Class C2 shall be considered as Class B for the purposes of the above table. Canadian Class A1 shall be considered as Class A for the purposes of the above table).

2.2.2 The maximum effective radiated power (ERP) in any plane of polarization must not exceed the maximum ERP permitted for the allotment or the assignment.

### **2.3 Antenna heights and equivalence**

2.3.1 Where antenna heights exceed those shown in 2.2.1, the effective radiated power shall be reduced to provide equivalence with maximum parameters. Equivalence means that the 1 mV/m (60 dBu) contour remains at the same location as that

determined by the attached F(50, 50) propagation curves and the maximum parameters for the class of the assignment. Moreover, it is required that the interference contour for equivalent parameters not exceed that determined by the attached F(50, 10) propagation curves and the maximum parameters allowed. Where limited allotments are concerned, the agreed upon parameters shall be used instead of maximum allowable parameters.

Where assignments are concerned, (existing or proposed) transmitting site co-ordinates should be used to determine equivalence. For allotments, city reference coordinates should be used.

- 2.3.2 Existing stations operating with parameters in excess of those specified for the classes in 2.2.1 may continue to operate as previously notified or with equivalent parameters.

#### **2.4 Minimum distance separation**

**Minimum Distance Separation Requirements in kilometres**

<b>Relation</b>	<b>Co-Channel</b>		<b>Adjacent Channels</b>			<b>I.F.</b>
	<b>0 kHz</b>	<b>200 kHz</b>	<b>400 kHz</b>	<b>600 kHz</b>	<b>10.6/10.8 MHz</b>	
A - A	132	85	45	37	8	
A - B1	180	113	62	54	16	
A - B	206	132	76	69	16	
A - C1	239	164	98	90	32	
A - C	242	177	108	100	32	
B1 - B1	197	131	70	57	24	
B1 - B	223	149	84	71	24	
B1 - C1	256	181	106	92	40	
B1 - C	259	195	116	103	40	
B - B	237	164	94	74	24	
B - C1	271	195	115	95	40	
B - C	274	209	125	106	40	
C1 - C1	292	217	134	101	48	
C1 - C	302	230	144	111	48	
C - C	306	241	153	113	48	

(U.S. Class C2 shall be considered as Class B for the purposes of the above table.  
Canadian Class A1 shall be considered as Class A for the purposes of the above table).

## **2.5 Transmitter locations**

An FM transmitter site shall be so located as to serve the city to which the channel is assigned and to promote the overall efficiency of the allotment plan. Transmitter sites shall be located so that the separations are not less than those set forth in 2.4 except when specifically agreed to by each Administration.

## **2.6 Computation of distance and azimuth**

**2.6.1** Where transmitter sites have been established the distance shall be determined using the coordinates of the transmitter sites. If a transmitter site has not been established, the community's reference coordinates shall be used.

**2.6.2** The distance between reference points is considered to be the length of the hypotenuse of a right-angle triangle, one side of which is the difference in latitude of the reference points and the other side the difference in longitude of the two reference points, and shall be computed as follows:

**2.6.2.1** Convert latitude and longitude into degrees and decimal parts of a degree. Determine the middle latitude of the two reference points (average the latitudes of the two points).

$$LATM = \frac{LAT1 + LAT2}{2}$$

**2.6.2.2** Determine the number of kilometres per degree of latitude difference for the determined middle latitude.

$$LATK = 111.108 - 0.566 \cos(2 LATM)$$

**2.6.2.3** Determine the number of kilometres per degree of longitude difference for the determined middle latitude.

$$LONGK = 111.391 \cos(LATM) - 0.095 \cos(3 LATM)$$

**2.6.2.4** Determine the north-south distance in kilometres.

$$LAT = LATK (LAT1 - LAT2)$$

**2.6.2.5** Determine the east-west distance in kilometres.

$$LONG = LONGK (LONG1 - LONG2)$$

- 2.6.2.6 Determine the distance between the reference points by the square root of the sum of the squares of the distances obtained.

$$DIST = (\text{LAT}^2 + \text{LONG}^2)^{\frac{1}{2}}$$

where:

LAT1 & LONG1 = coordinates of one location in decimal degrees;

LAT2 & LONG 2 = coordinates of second location in decimal degrees;

LATM = middle latitude between points;

LATK = kilometres per degree of latitude difference;

LONGK = kilometres per degree of longitude difference;

LAT = north-south distance in kilometres;

LONG = east-west distance in kilometres; and

DIST = distance between two reference points in kilometres.

In computing the above, sufficient decimal figures shall be used to determine the distance to the nearest kilometre.

- 2.6.3 When it is necessary to calculate the angle or azimuth between true north and the connecting radial from one reference point to another, the following procedure shall apply:

- 2.6.3.1 Convert latitude and longitude into degrees and decimal parts of a degree.

- 2.6.3.2 Determine the arc length in degrees between the two reference locations.

$$d = \cos^{-1}[\sin(\text{LAT2})\sin(\text{LAT1}) + \cos(\text{LAT2})\cos(\text{LAT1})\cos(\text{LONG}-\text{LONG2})]$$

- 2.6.3.3 Calculate the azimuth. (If the second location is west of the initial location, subtract the result from 360; i.e.,  $360 - \text{AZM}$ ).

$$\text{AZM} = \cos^{-1}\left[\frac{\sin(\text{LAT2}) - \sin(\text{LAT1})\cos(d)}{\cos(\text{LAT1})\sin(d)}\right]$$

where:

LAT1 & LONG1 = coordinates of initial location in decimal degrees;

LAT2 & LONG2 = coordinates of second location in decimal degrees;

d = arc length between locations in decimal degrees;

AZM = angle between true north (0 degrees) and the connecting radial in decimal degrees in clockwise direction.

In computing the above, sufficient decimal figures shall be used to determine the azimuth to the nearest degree.

### **3. Allotments and Assignments**

#### **3.1 Allotment Tables**

Tables A and B contain all Canadian and U.S. allotments respectively on Channels 201-300 made to communities within 320 kilometres of the common border.

#### **3.2 Primary Assignments**

A primary assignment is a protected station assignment authorized or operating on an allotted channel with one of the classes listed in 2.2.1.

#### **3.3 Secondary Assignments**

A secondary assignment is an unprotected station assignment authorized or operating on a channel in accordance with section 4.

#### **3.4 Unlimited Allotment**

An unlimited allotment is one on which a station may operate with maximum parameters for its class. Any allotment on which a station, by virtue of spacing, could operate with maximum parameters may qualify as an unlimited allotment and may be coordinated as such.

#### **3.5 Specially coordinated short-spaced allotments**

3.5.1 In particular instances, unlimited allotments at less than the minimum spacings may be acceptable to both countries as specially coordinated short-spaced allotments and shall be identified in the Tables with an asterisk (\*).

- 3.5.2 Limited allotments may be specially coordinated to require assignments to operate with less than maximum parameters. Specific limitations on antenna height and power calculated in the pertinent direction (see 5.2.1) are indicated by note designations in the Tables.
- 3.5.3 New or changed short-spaced assignments must not result in interference or an increase in existing interference to the related station's protected service contour unless specifically agreed to by the two Administrations.
- 3.5.4 New or changed short-spaced assignments must be notified in accordance with section 5.2 and must be approved by the other Administration before they can be implemented.

### **3.6 Directional antennas**

Directional antennas operated by stations occupying limited allotments may be used to render protection to other co-channel and adjacent channel stations. In the direction of limitation, a station using a directional antenna must not exceed the notified pattern values. In all other directions, the radiation may not exceed the notified pattern value by more than 2 dB. Moreover, the ratio of maximum to minimum fields of a directional antenna shall not be greater than 20 dB, except where terrain may present a problem due to signal reflections. Directional antennas may also be used by stations operating on unlimited allotments, but their use shall not prevent future increases to maximum allowable parameters.

## **4. Low Power FM Stations**

The conditions for the operation of low power FM stations (LPFM) are as follows:

- 4.1 LPFM stations are secondary assignments which operate on a non-interference no-protection basis with respect to existing or future primary assignments. However, they are assigned on a protected basis with respect to each other according to their date of notification.
- 4.2 LPFM assignments may be made on any channel from 201 to 300, whether or not the channels are listed in the FM Allotment Tables attached.
- 4.3 LPFM stations may be allowed an effective radiated power not to exceed 50 watts in any direction and an interference contour (34 dBu) not to exceed 32 km subject to 4.1 and 4.2 above.
- 4.4 For coordination purposes, only proposals for such stations with 32 kilometres of the common border need be referred for concurrence.

- 4.5 Should any interference be caused by an LPFM station to a primary FM or a previously notified LPFM assignment, the offending station must immediately change to a suitable channel or cease operation. The use of a channel by an LPFM station shall not prejudice in any manner the use of this channel for a primary assignment.

## 5. Procedures for Notification

### 5.1 General

- 5.1.1 Proposed assignments, allotments, and changes thereto shall be notified by an exchange of correspondence between the Federal Communications Commission and the Department of Communications; such proposals may be presumed acceptable if they conform to the technical criteria set out in this Arrangement. Each Administration shall have forty-five (45) days, from the date of receipt of the notification, to reply thereto. If an objection is raised within this period, the letter shall state, with as much particularity as the circumstances permit, the basis for the objection. The proposing Administration may then have an opportunity to meet the stated objection by suitable amendments to its proposal. If no reply is sent within the 45 day period prescribed, a notified proposal shall be considered approved. In all cases, notification procedures should be completed prior to domestic grant of authorization.
- 5.1.2 At the end of each calendar quarter, each Administration will forward to the other a recapitulation of all notifications made during that three-month period. Each year both Administrations will exchange, verify, and reconcile the complete data base.

### 5.2 Notification of Changes to Allotments

- 5.2.1 Notification of changes to allotments shall contain community name, state or province, reference coordinates (latitude and longitude) and pertinent channel changes.
- 5.2.2 Proposed allotments which do not conform to the Table of Minimum Distance Separations set out in this Arrangement shall normally be considered acceptable for technical coordination if objectionable interference would not be caused within the protected service contour of existing co-channel and adjacent channel allotments or assignments (except LPFM's). The following standards shall be used to determine the existence of objectionable interference:

5.2.2.1 The distance to the protected service contour of FM allotments and assignments shall be based on maximum allowable parameters and shall be determined from the F(50, 50) curves attached for the appropriate field strength contours listed below.

<b>Class</b>	<b>Field Strength</b>	<b>Maximum Distance</b>
A	0.5 mV/m (54 dBu)	33 km
B1	0.5 mV/m (54 dBu)	51 km
B	0.5 mV/m (54 dBu)	65 km
C1	0.5 mV/m (54 dBu)	86 km
C	0.8 mV/m (58 dBu)	97 km

(U.S. Class C2 allotments and assignments shall be considered as Class B allotments and assignments for the purposes of this document.  
Canadian Class A1 shall be considered as Class A for the purposes of the above table).

- 5.2.2.2 The interfering field strength contour shall be determined from the F(50, 10) propagation curves attached, except when the resultant distance is less than 15 kilometres, in which case the F(50, 50) curves will be used.
- 5.2.2.3 Objectionable interference shall be considered to exist if the following interfering contours of classes A, B, B<sub>1</sub> and C<sub>1</sub> overlap the protected service contour:

<b>Channel relationship</b>	<b>Field strength</b>
Co-channel	0.05 mV/m (34 dBu)
First adjacent	0.25 mV/m (48 dBu)
Second adjacent	5.00 mV/m (74 dBu)
Third adjacent	50.00 mV/m (94 dBu)

Where the interfering contour is from a Class C channel allotment or assignment, the following signal strength contours shall be used:

<b>Channel relationship</b>	<b>Field strength</b>
Co-channel	0.08 mV/m (38 dBu)
First adjacent	0.40 mV/m (52 dBu)
Second adjacent	8.00 mV/m (78 dBu)
Third adjacent	80.00 mV/m (98 dBu)

5.2.2.4 Where the protected contour extends beyond the boundary of the country in which the allotment is located, protection shall be provided only to land areas, including islands, lying within that country. In this case, overlap of the interfering and the protected service contours shall be acceptable provided that the interference zone does not fall within these areas. Annex III describes the procedure to determine the interference zone.

### 5.3 Notification of Assignments

5.3.1 Notification of station assignments or changes in operating parameters of existing stations must set out the actual operating parameters which are to be employed. These may be less than the maxima permitted for the allotted channels. The use of lesser operating parameters initially shall not preclude the later use of assignment is being notified, the antenna height above average terrain for all connecting radials between it and the assignments and allotments to which it is short spaced shall be supplied. Each of these antenna heights is to be calculated by interpolating between the antenna heights above average terrain of the two standard radials that are adjacent to the connecting radial.

5.3.2 Notifications of assignments shall contain the following information:

- City, State or Province
- Transmitter location (Latitude and Longitude)
- Channel Number and Class of Station
- Channel Frequency
- Call Sign
- Antenna
  - (i) Height of center of radiation above average terrain (3-16 km)
  - (ii) Height of the center of radiation above average terrain of the two adjacent standard radials if limited assignment is proposed.
- Effective radiated power
  - (i) Horizontal pattern if a directional antenna is proposed.

### 5.4 Technical coordination

Technical coordinations concerning allotments and assignments shall normally consist of an exchange of letters between the Department of Communications of Canada and the Federal Communications Commission of the United States of America. In the event that the matter cannot be resolved by correspondence, a meeting shall be arranged.

## Annex I

### Frequency/Channel Table

Frequency (MHz)	Channel N	Frequency (MHz)	Channel N	Frequency (MHz)	Channel N
88.1	201	94.9	235	101.5	268
88.3	202	95.1	236	101.7	269
88.5	203	95.3	237	101.9	270
88.7	204	95.5	238	102.1	271
88.9	205	95.7	239	102.3	272
89.1	206	95.9	240	102.5	273
89.3	207	96.1	241	102.7	274
89.5	208	96.3	242	102.9	275
89.7	209	96.5	243	103.1	276
89.9	210	96.7	244	103.3	277
90.1	211	96.9	245	103.5	278
90.3	212	97.1	246	103.7	279
90.5	213	97.3	247	103.9	280
90.7	214	97.5	248	104.1	281
90.9	215	97.7	249	104.3	282
91.1	216	97.9	250	104.5	283
91.3	217	98.1	251	104.7	284
91.5	218	98.3	252	104.9	285
91.7	219	98.5	253	105.1	286
91.9	220	98.7	254	105.3	287
92.1	221	98.9	255	105.5	288
92.3	222	99.1	256	105.7	289
92.5	223	99.3	257	105.9	290
92.7	224	99.5	258	106.1	291
92.9	225	99.7	259	106.3	292
93.1	226	99.9	260	106.5	293
93.3	227	100.1	261	106.7	294
93.5	228	100.3	262	106.9	295
93.7	229	100.5	263	107.1	296
93.9	230	100.7	264	107.3	297
94.1	231	100.9	265	107.5	298
94.3	232	101.1	266	107.7	299
94.5	233	101.3	267	107.9	300
94.7	234				

**Annex II**

**Figures 1 and 2**

Figure 1

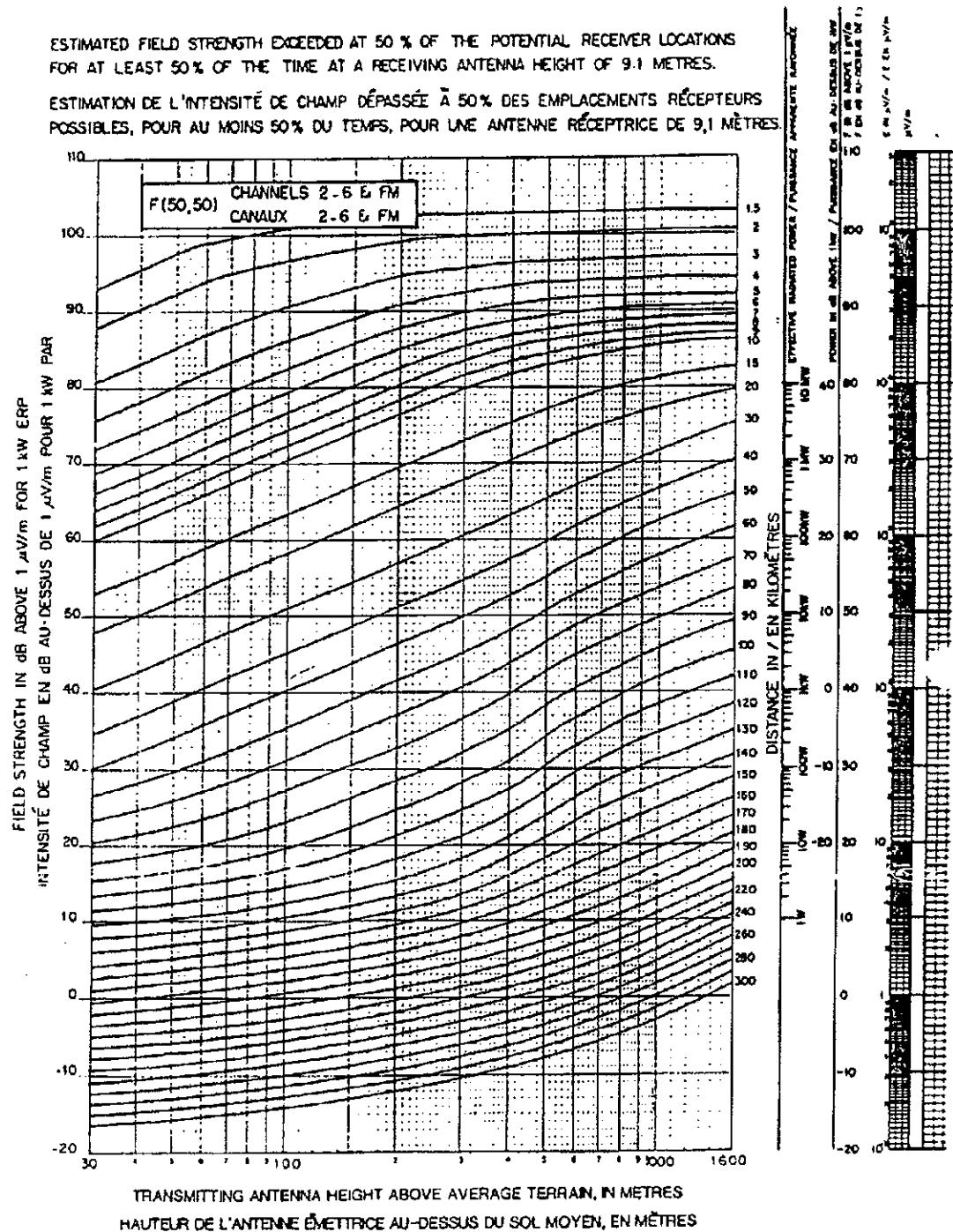
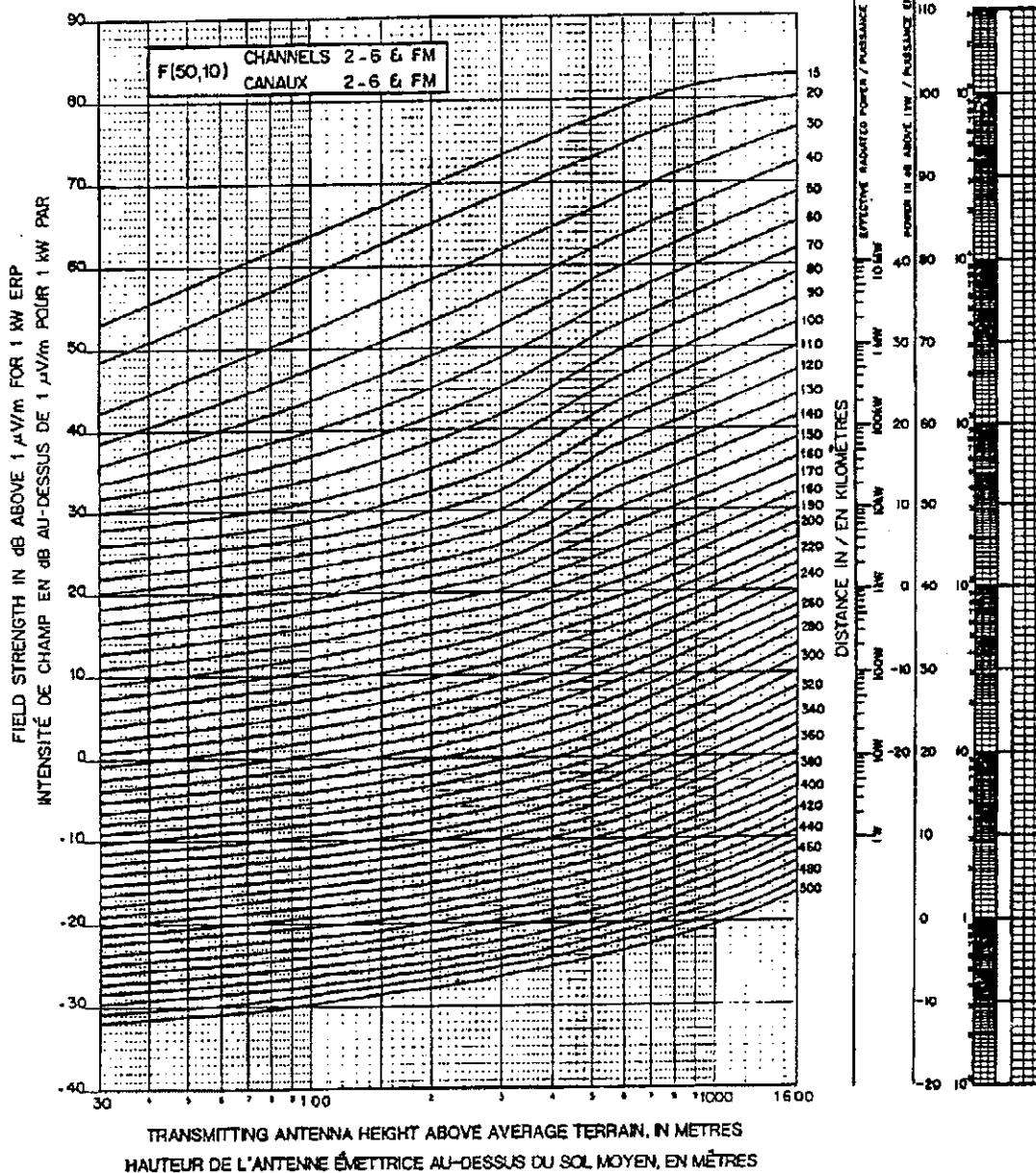


Figure 2

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 % OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 % OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9.1 METRES.

ESTIMATION DE L'INTENSITÉ DE CHAMP DÉPASSÉE À 50% DES EMPLACEMENTS RÉCEPTEURS POSSIBLES, POUR AU MOINS 10 % DU TEMPS, POUR UNE ANTENNE RÉCEPTRICE DE 9,1 MÈTRES



### Annex III

## **Procedure to Determine Interference Zone**

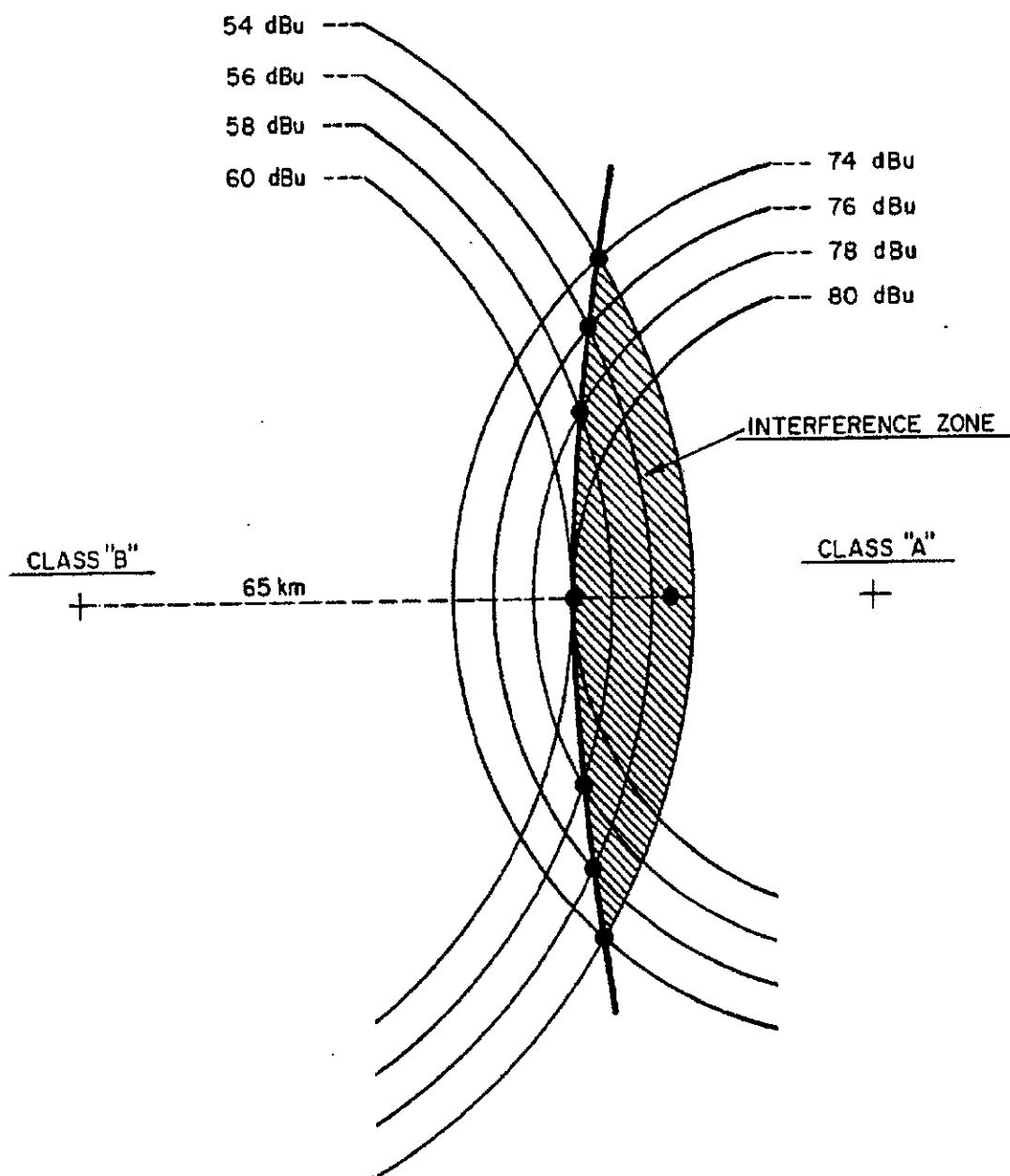
On an appropriately scaled map plot the transmitter sites and do the following:

1. Plot the protected service contour for the assignment or allotment to be protected based on maximum parameters in accordance with 5.2.2.1. If the assignment or allotment is limited, the agreed upon parameters shall be used instead of maximum parameters.
2. Plot the interfering contour for the proposed assignment or allotment based on its proposed parameters in accordance with 5.2.2.2 and 5.2.2.3.
3. Mark the two points where the contours intersect.
4. Repeat steps 1, 2, and 3 except increase the value of each contour while maintaining the same protection ratio until the protected and interfering contours are tangential.
5. Draw a line joining the intersection points obtained above. The area contained within this line and the protected service contour drawn in step 1 defines the interference zone.

### **Example**

The following example shows the interference zone between an existing class B station and a proposed class A station which are short-spaced and on second-adjacent channels.

1. The protected service contour from 5.2.2.1 is 54 dBu which extends to 65 km.
2. The interfering contour from 5.2.2.3 is 74 dBu. (The extent of this contour will vary depending on the proposed operating facilities).
3. Mark the two points where the contours intersect.
4. Plot the 54 dBu service contour and the 74 dBu interfering contour and mark the two points of intersection. Continue to increase the value of the contours, plot them, and mark the intersection points until the contours are tangent.
5. Draw a line joining the intersection points obtained above. The area contained within this line and the protected service contour drawn in step 1 defines the interference zone. This area is shown cross-hatched in the drawing.



## **Annex IV**

### **Tables A and B**

## Table A

### Canada

#### Legend

- # - Domestic Short-Spaced Allotment/Assignment
- \* - International Short-Spaced Allotment/Assignment

(1)	Limited to 5 kW	- 39.4 metres.
(2)	Limited to 20 kW	- 150 metres or the equivalent, in direction of related stations.
(3)	Limited to 100 kW	- 564 metres or the equivalent.
(5)	Limited to 117 kW	- 197 metres or the equivalent.
(6)	Limited to 50 kW	- 150 metres or the equivalent in direction of related stations.
(7)	Limited to 100 kW	- 300 metres or the equivalent.
(8)	Limited to 3 kW	- 61 metres or the equivalent.
(9)	Limited to 1 kW	- 85.5 metres or the equivalent.
(10)	Limited to 1 kW	- 91.5 metres or the equivalent.
(11)	Limited to 100 kW	- 122 metres or the equivalent.
(12)	Limited to 40 kW	- 122 metres or the equivalent.
(13)	Limited to 2 kW	- 122 metres or the equivalent.
(14)	Limited to 30 kW	- 150 metres or the equivalent.
(15)	Limited to 1.27 kW	- 30.5 metres or the equivalent.
(16)	Limited to 3 kW	- 122 metres or the equivalent.
(19)	Limited to 80 kW	- 530 metres towards 245C Presque Isle, Maine.
(21)	Limited to 90 W	- 91.5 metres or the equivalent.
(23)	Limited to 10 kW	- 93.1 metres towards 276A Lapeer, Michigan.
(24)	Limited to 7 kW	- 122 metres towards 272A Port Huron, Michigan.
	Limited to 3.5 kW	- 130 metres towards 272A Erie, Pennsylvania.
(25)	Limited to 250 W	- 259 metres.
(26)	Limited to 15 kW	- 142.5 metres towards 282C Bellingham, Washington.
(27)	Limited to 40 kW	- 234 metres towards 269A Tawas City, Michigan.
(29)	Limited to 19.1 kW	- 162 metres towards 241B Buffalo, New York.
(30)	Limited to 100 kW	- 189 metres towards 221A Bad Axe, Michigan.
	Limited to 80 kW	- 270 metres towards 222B Warren, Pennsylvania.

## Alberta

### Assignments-Allotments

Banff	225A, 236B, 257A, 282A
Brooks	284B(#)
Burmis	211A, 216A
Calgary	205B, 209C(7), 215A, 221C 229C, 234B, 240C, 245C, 253B 271C(#), 276C, 280B(#), 286C 291B(#), 297C(#)
Cardston	270B
Claresholm	290A(#)
Drumheller	204A, 213B, 217C(#), 263B 293B(#)
Duchess	279B(#)
Etzikom	221A, 259A
Exshaw	264A(#)
Fort MacLeod	295B
Harvie Heights	250A(#)
High River	266A
Lake Louise	248A(#)
Lethbridge	219C(#), 231C, 238C, 257C 261C, 282B, 299C
Medicine Hat	247C(#), 252A, 263A, 271C(*#) 281A, 287C(#)
Milk River	215A
Olds	249A
Pincher Creek	224A, 248A(#)
Rosemary	207B(#)

## **British Columbia**

### **Assignments-Allotments**

Abbotsford	285B(*#26)
Aiyansh	220A(#), 272A
Alert Bay	248A(#), 286A
Alexis Creek	229B
Armstrong	241A(#)
Ashcroft	228A, 297A(#)
Barriere	281B(#), 290A(#)
Bonnington Falls	208A(*#), 285A
Boston Bar	275A(#), 291A
Bralorne	270A(#), 281A(#)
Burns Lake	256B, 298B
Cache Creek	237A(#)
Campbell River	226A(#), 234A, 273A, 283A 291B, 295B(#)
Canal Flats	214A(#), 219A(#)
Cassiar	212A, 220A
Castlegar	223B(#), 257A(#), 273A(#) 299A
Cedarvale	287A(#)
Chase	226A(#), 239A(#), 266A
Chilliwack	207A(*#), 211A(*#), 215A(*#) 219A(*#), 259A(*), 271A(*#) 276A(#), 298A(*#)
Christina Lake	203A, 227A(*#)
Clearwater	204A, 215A, 224B(#), 275A
Clinton	263B(#), 267B(#), 293A
Coal Harbour	266A, 274A
Courtenay	243B, 247B, 255B, 264B 287B(#), 299A(#)
Cranbrook	226C(*), 243C, 267C(#) 272B(*), 284C(*#), 298A
Crawford Bay	202A, 210A, 270A(#)
Creston	249A(#), 262B(#), 275B(*#) 291B(#)
Donald	211A(#), 216A(#)
Dorreen	250A
Edgewood	271A, 288A(#)
Elkford	293A
Enderby	224A(#), 254A(#)

## **British Columbia (continued)**

### **Assignments-Allotments**

Falkland	274B(#), 278B(#)
Fernie	249A(#)
Field	251A(#), 294A
Gibsons	298A(*#21)
Gold River	201A(#), 209A(#)
Golden	206A(#), 269A
Grand Forks	272A(#), 277A(#), 297A(#)
Granisle	261A, 300A
Greenville	218A(#), 227A
Greenwood	244A(#), 250A
Harrison Hot Spring	203A(#), 244A(#)
Hazelton	204A, 217A
Hedley	273A(#), 296A(#)
Holberg	243A, 283A
Hope	254A, 263A(#), 269A(#)
Houston	215B, 271B, 288B
Invermere	247A, 259A(#), 290A, 296A
Kamloops	223A(#), 231B(#), 243B(#) 248B(#), 252B(#), 256B(#) 261B(#), 287B(#), 300B(#)
Kaslo	215A(#), 220A(#)
Kelowna	201C(#), 205C(#), 209C(#) 213B(#), 268C(#), 276A(#) 284C(#)
Kelsey Bay	275A, 281A
Keremeos	255A(#), 260A(*), 299A(#)
Kimberley	277A(#)
Kincolith	254A, 264A
Kitimat	217A, 249A(#), 258B, 266A 281B, 286A
Kitselas	230A
Kitwancool	289A(#)
Kitwanga	232A, 269A, 299A(#)
Lake Cowichan	274A(#), 286A(*) 298A(#)
Lillooet	224A(#), 246A(#), 259A(#)
Logan Lake	225A(#), 294A
Lumby	244A(#), 258A(#)
Lytton	226A(#), 239A(#), 272B(#)

## **British Columbia (continued)**

### **Assignments-Allotments**

Saturna Island	201C(*#), 205C(*#), 209C(*6) 213C(*#), 217C(*6)
Savona	270A(#)
Sechelt	284A
Shalalth	202A, 213A(#)
Sicamous	237A(#), 294A(#)
Slocan	247A(#), 259A(#)
Smithers	207B, 248B(#)
Sooke	258A(#), 277A(#)
Sorrento	271A(#), 296A(#)
Sparwood	207A(#), 255B, 289A
Spences Bridge	207A, 211A
Spillimacheen	265A(#), 278A
Squamish	219A(#), 252A(#), 296B(*#) 300A(#)
Stewart	207A, 214A
Tahsis	213A, 219A
Tatalrose	235A
Terrace	213B, 221A(#), 237B, 245B 276B, 292B, 297B(#)
Trail	235C(#), 239C(#), 248A(#) 281B(#), 287A(#)
Ucluelet	239B, 279B(#)
Vallican	214A(#)
Vancouver	229C(#), 233C(#), 237C(#) 241C(*), 245C(#), 249C(#) 257C(#), 270A(*#), 274B(*#) 278C(#), 289C(#)
Vavenby	210A, 220A
Vernon	227A(#), 238A(#), 250A 293A(#), 298B(#)
Victoria	221C(*#), 253C(*#), 262C(*) 270A(*#), 297B(*#)
Whistler	261A(#), 271A(#)
Winlaw	219B(#)
Woss Camp	224B(#), 253B
Yahk	258A(#), 279A
Yale	247A(*#), 295A(*)

## **Manitoba**

### Assignments-Allotments

Alonsa	205A, 212A, 217A
Armstrong	272C
Baldy Mountain	260C, 291C(#)
Beausejour	225A(*)
Boissevain	231B
Brandon	207C(*), 224C, 241C, 250C 258B, 266C, 280C
Carman	264A(#)
Cat Hills	205A, 210A, 219A
Dauphin	295C(#)
Dauphin/Baldy Mountain	287C
Fairford	201B(#), 282B(#)
Fisher Branch	214B, 219B, 239B(#)
Jackhead	203B(#), 224B
Lac du Bonnet	242A, 264A(#), 290A(#)
Little Grand Rapids	263A, 268B(#)
MacDonald	226A
Manigotagan	205A, 267A(#)
Melita	300B
Morden	228B
Neepawa	274B
Pine Falls	294A(#), 298A(#)
Portage la Prairie	243A, 284C
Roblin	282A(#)
Selkirk	281C(*#)
St Clements	266A(#)
St-Lazare	218A(#)
Ste Anne	240A
Ste Rose du Lac	238A(#)
Steinbach	244B
Virden	254B
Winnipeg	221C(O), 232C, 236C(*) 248C(O), 252C(O), 256C 260C, 268B(#), 276C, 288C(#) 292C(#), 296C(#), 300C(#)

## New Brunswick

### Assignments-Allotments

Allardville	250B(#), 270B(#), 289B 293B(#)
Bathurst	261B(#), 285C1(#), 300A(#)
Boiestown	215A(#)
Bon Accord	236A, 256B(#), 265A, 277B(#)
Campbellton	205B, 209B, 213B, 218B 222B(#), 280B(#)
Caraquet	231B(#)
Chatham	229B(#), 257B(#)
Dalhousie	264B(#), 274B
Doaktown	243A
Edmundston	224B(#), 232C(#), 258B(#) 262B(#), 266A, 284A
Fredericton	213A, 222B(#), 226B, 258A(#) 287C1, 295C(#)
Grand Falls	228B
Grand Manan	279A
Inkerman	246B
Louis Lake	206A, 210A
Minto	283B(#)
Moncton	203B(#), 208B(#), 214B(#) 219B(#), 233B(#), 238C(#) 252C(#), 260B(#), 276C(#) 280C, 297A(#)
Newcastle	229B(#), 257B(#)
Oromocto	300B(#)
Richibucto	223A(#)
Sackville	245B(#)
Saint John	201C(#), 205C(*#), 211B(*) 217C(*#), 231C(#), 255B(#) 259C(#), 263C, 268C(#), 272C
St Francis	217A
St Stephen	243A, 251B
St-Basile	299B(#)
St-Quentin	211A, 216A, 220A(#), 271A(*#)
Sussex	247B(#)
Woodstock	281B

## Nova Scotia

### Assignments-Allotments

Amherst	256B(#)
Barrington	242B(#)
Bridgewater	229A(#), 251B(#)
Church Point	244A
Dartmouth	282C
Digby	225A(#), 240B, 277A(#), 284A, 289A(#)
Halifax	201A(#), 213C(#), 218C(#) 222C(#), 230A(#), 239B(#) 243C(#), 261C(#), 270C(#) 274C, 278C(#), 286C, 290C(#)
Kentville	249B(#)
Liverpool	233B(#), 237A(#), 246B, 257B 266B(#), 276A(#)
Lunenburg	300A(#)
Middleton	220A(#), 227B(#), 235C(#) 259B(#), 293C(#), 298B(#)
New Tusket	228A(#)
Shelburne	226B(#), 262A(#), 295B(#) 299A
Springhill	216A(#), 224B(#), 229A(#) 267A(#), 288A
Truro	202A(#), 206A(#), 210B(#16) 258B(#), 265B(#), 296B
Weymouth	265A(#), 277A(#)
Windsor	254B(#)
Wolfville	207A(#)
Yarmouth	221B(O), 248B, 253B, 281B 291B, 297A(#)

## Ontario

### Assignments-Allotments

Armstrong	207A(#), 217A
Atikokan	201A, 205A, 211A, 220A, 271C
Bancroft	202C1(*11), 207A(#) 215C1(*11)
Barrie	226C1(#), 239B(#), 266A
Beardmore	216A(#)
Belleville	232B(#), 238C1(*#), 246B 261A(#), 272B(*#), 282B(*#36)
Blind River	240A(#)
Bracebridge	265A, 299B(#)
Brampton	271C1(#)
Brantford	221C1(*#30)
Brockville	201B(*#), 262C1(#), 271A(#) 279B(#), 285A(#), 293A
Bruce Peninsula	206A
Burlington	300B(*#)
Chapleau	204A, 210A(#), 216A(#) 220A(#), 236C
Chatham	201A(*#), 207B(*12), 217A(*13) 232B(*#), 236B(*), 288A(*)
Cobourg	276C1(*05)
Collingwood	207A(#), 213A(#), 236A(#)
Cornwall	203B(#), 221A, 238A(#) 251A(#), 270A(#), 283B(#)
Crystal Beach	213A(*8), 262A(*8), 266A(*8)
Deseronto	204B(*14), 208B(*#), 212B(*#)
Desolation Lake	230A
Dryden	251B(#), 256B, 265C, 274A 289C
Eagle Lake	211B(#)
Ear Falls	219A, 231C
Elliot Lake	212A(#), 217B, 269B, 284A 289A(#)
Espanola	207B(#), 235A(#), 241A(#) 256A, 291B(#)
Exeter	219A(#)
Fort Frances	206B, 213B, 243B, 269B, 300C
Geraldton	206B, 217A(#), 229B, 243B 285C

## Ontario (continued)

### Assignments-Allotments

Goderich	201A(#), 209A(#), 213A(#)
Gogama	248A(#), 285B, 294A
Guelph	291B(#)
Haileybury	253A(#), 275A(#), 293A(#)
Hamilton	237C1(#), 275B(*)
Hawkesbury	271A(#), 299A(#)
Hearst	201B, 207B, 212B, 216B(#)
	220B(#), 264C
Hornepayne	205A
Huntsville	249C(#7), 258C, 288B
Ignace	242A, 276A, 297C
Iron Bridge	210A
Kenora	208B, 215B, 228B, 254B
	29 4C(#)
Kingston	220A(*#15), 225A(*), 242B(*)
	252C1(**#), 258A, 270A(*#)
	289A(*), 298C1(**#)
Kitchener	244C1(**#), 254A(#)
	287C1
Leamington	244A(*9), 276A(*#9)
Lindsay	294A(#)
Little Current	248B(#)
London	224B(*#), 228C1(*#), 234B(*#1)
	240C1(*O#), 248B(*), 257B(*#)
	263B(*), 276B(*#23), 295A(#)
Manitoulin Island	231C, 276B, 295B
Manitouwadge	209B, 218A, 245A, 261C
Marathon	201A(#), 226C, 276C
Midland	281A(#)
Mississauga	242B(*#29)
Mount Forest	298A(#)
Nipigon	212B, 241A(*), 247B, 255B
	264A, 279C
North Bay	208C(#), 213C(#), 228C(#)
	236C(#), 241C(#), 246C(#)
	270C, 292B, 297C(#)
Orangeville	278B(**#)
Orillia	205B(*#), 218A(#), 262A
	290B(#)

## Ontario (continued)

### Assignments-Allotments

Oshawa	222A(#), 235B(#), 240A(*#)
Ottawa	206C1(*#), 210C1(*), 214C1(*#)
	218C1(#), 226B(#), 230C1(*#)
	273C1(#), 277C1(#), 287C1(#)
	291C1, 295C1(#)
Ottawa-Hull	250A(#), 256A, 300A(#)
Owen Sound	223B(*#), 229B(#), 254C1(#)
	274C1(#), 293C1(*)
Paris	202B(*#), 206B(*#), 210B(*14)
	214B(*#)
Parry Sound	221B(#), 277B(#)
Pembroke	223B, 244C1(*), 260C1(*#)
	264B(#), 285A
Penetanguishene	201B(#), 209A(#), 243B(#)
Peterborough	220B(#), 224B(*#), 228B(*#)
	268B(*), 280B(*), 286B
	292B(*#)
Pikangikum	262A
Port Colborne	285C(*#)
Port Elgin	250B(#)
Rainy River	285C
Red Lake	203A, 209A, 213A, 217A, 258A
	286C
Renfrew	240A(#), 254A
Rolphton	219A(#)
Rosseau	232B(#), 284B(#)
Sarnia	212A(*#), 252A, 260B(*2)
	268A(*#), 280A(*), 292B(*)
Sault Ste Marie	201A, 208B(#), 215B, 221C(*7)
	225B, 238C(*7), 247B(*), 263C
	282C, 297C
Savant Lake	285A
Schreiber	204B(#), 215A, 220B, 297C
Sioux Lookout	253A(#), 261C
Sioux Narrows	239A
Smiths Falls	222A, 266C1(#)
St Catharines	219C1(*6), 249B(*#), 289B(*#)
Stratford	281A(*#)

## **Ontario (continued)**

### **Assignments-Allotments**

Sturgeon Falls	256A
Sudbury	203C, 211B(#), 215B, 219C(*) 224C, 251B, 260B, 266C, 280C 287C
Terrace Bay	290C
Thessalon	205B(#)
Thunder Bay	202B, 207B(#), 218C, 232C 269B, 287C, 293C, 300C
Tillsonburg	267B(#)
Timmins	221C(#), 226C(#), 257C(#) 262C, 277B, 281B, 289C
Toronto	201A(*#25), 208B(#), 212B(*#) 216C1(*#), 231C1(*#), 247B(#) 251C1(*#), 256C1(*6) 260C1(*#), 264B(#), 283C1(*#) 296C1(*#)
Upsala	216A
Walkerton	233B(#)
Wawa	202B, 206B, 214A, 254C, 292B
Welland	298A(*#)
White River	233A
Whitney	253A
Windsor	204C1(*#), 210C1(*) 230C1(*#), 300A(*)
Wingham	238A(#), 265B(#), 269C1(*#27)
Woodstock	272B(*#24)

**Prince Edward Island**

**Assignments-Allotments**

O'Leary                    291A  
Summerside                262B(#), 271B(#)

## Quebec

### Assignments-Allotments

Alma	249B
Amqui	277A(#)
Asbestos	241A(*10)
Baie-Comeau	223B, 229(#), 271B(#)
	291A, 299A(#)
Baie St. Paul	242B(#)
Becancour	286A(*)
Bedford	281A(#)
Belair	246A
Bic	290A(#)
Buckingham	269A(#)
Cabano	238A, 252A(#)
Carleton	201B, 235C(#), 239C(#)
	256A(#)
Causapscal	230A, 292A(#), 300A
Chandler	242B, 252A, 279A(#), 283A(#)
Chapeau	204A(#), 233A, 293A
Chicoutimi	229B, 233C(#), 245C(*19)
	265B(#), 274B, 281B, 293B
	300B
Cloridorme	247A(#), 286A
Coaticook	283A(*)
Degelis	289A
Des Ruisseaux	267A
Dolbeau	208A, 215B, 226B, 263B, 283B
	290B(#)
Drummondville	221A(*#)
Dunham	270A(*10)
East-Angus	229A(#)
Escuminac	251A(#)
Ferme-Neuve	259A(#)
Forestville	225A(#), 239A(#), 263A, 273A
Fort-Coulonge	268A(#), 299A(#)
Gaspe	276A, 294A
Gatineau	239A(#)
Gatineau/Hull	281B
Granby	285A(#)
Grande-Vallee	281A(#), 300A
Hull	235C1(#)

## Quebec (continued)

### Assignments-Allotments

Joliette	278A
Jonquiere	223A
L'Annonciation	202B(#), 242A(#)
La Baie	288B
La Malbaie	218A, 257A(#), 290A
La Pocatiere	275A
La Tuque	203A, 207A, 218A, 270A 279B(#)
Lac-Etchemin	218A(#)
Lac-Megantic	202A(#), 217A(#), 269A(#) 281A
Lac-au-Saumon	248B, 260B(#), 283B
Lachute	285A(#)
Laval	289C1(*#)
Longueuil	253C1(*)
Louiseville	276A(#)
Magog	262A(#), 291B(*#)
Maniwaki	247B, 257A
Manouane	278A(#), 283A(#)
Marsoui	207A(#), 229A(#)
Matane	237A, 287C, 298A(#)
Matapedia	226A(#), 269A(#)
Metabetchouan	269A
Mont-Citadelle	208C(#), 214A
Mont-Joli	227B(#), 294B(#)
Mont-Laurier	208A, 216B, 220B, 237A(#) 284B(#)
Mont-Louis	291A, 295A
Montmagny	271B
Montréal	207B(*#), 212B(*), 217C1(*#) 223C1(*#), 228C1(#), 232C1(#) 236B(*#), 240C1(#), 249C1(#) 264C1(#), 284A(*#), 297C1(#)
Murdochville	221A(#), 249A(#), 258A 284A(#)
New-Carlisle	268A(#), 296B(#)
New-Richmond	278A(#), 282A(#)
Paspébiac	254A(#)
Perce	216B, 220A, 272C, 291A

## Quebec (continued)

### Assignments-Allotments

Plessisville	239A(#)
Pohehegamook	222A(*#)
Pont-Rouge	204A(#)
Port-Daniel	223A(#), 259A, 263A(#)
Quebec	206A(#), 215B(#), 220B(#) 227C1, 237C1(#), 251C1 255C1(*#), 277C1(#), 284C1(#) 292C1(#), 298C1(#)
Rapides-des-Joachims	256A
Rimouski	216A, 220A(#), 243B(#) 254C(#), 268C(#), 275A
Riviere-du-Loup	264A, 279C(#), 296C(#)
Roberval	238B, 257A, 278A(#)
Shawinigan	300A(*)
Sherbrooke	205B, 209B(#), 214B(*) 219B(*#), 238A, 247C1(#) 266B(#), 274C1(*3)
Sorel	269A(#)
St Francois Assise	272A
St-Athanase	273A(*)
St-Basile	265A(#)
St-Damase-des-Aulnai	212B, 248B(#)
St-Fabien-de-Panet	223A, 229A(#)
St-Felicien	272A
St-Gabriel-Brandon	256A(#)
St-George-Beauce	207A(*), 244A(#), 249A(#) 259C1, 263C1(*#)
St-Hyacinthe	293A(#)
St-Jean	268A(#)
St-Jean-Port-Joli	225A(#)
St-Jerome	280A
St-Joseph-de-Beauce	273A(#)
St-Jovite	225A(*#), 238A(#), 251A(#) 268A
St-Lazare	232A(#), 267B(#)
St-Michel-des-Saints	215A
St-Pamphile	253A
St-Pascal	260A(#)
St-Raymond	208A(#), 269A(#)

## **Quebec (continued)**

### **Assignments-Allotments**

St-Tite	290A(#)
St-Urbain-de-Chamblis	205A
Ste-Adele	258B(*#)
Ste-Agathe-des-Monts	294A(#10)
Ste-Anne-de-Beaupre	202A
Ste-Anne-des-Monts	262B(#), 266B, 299A(#)
Temiscaming	254A(#), 276A
Thetford-Mines	203A(#), 211A, 222A(#) 234C1(#), 288B(*#)
Trois-Pistoles	235A, 250A
Trois-Rivières	201B, 210A(#), 230B, 234C1(#) 243C1(*#), 261C1(*#), 272B(*#) 282C1(#), 295B
Valleyfield	275A(#)
Verdun	245C1(*O#)
Victoriaville	224A(#), 270A(#)
Windsor	257A

## Saskatchewan

### Assignments-Allotments

Alida	256A
Assiniboia	292C(#)
Bellegarde	201A(#), 209A(#), 220B
Cypress Hills	217B(#), 251A, 256B
Davidson	207B, 258B, 277B
Estevan	202B(#), 210B(#), 215B, 272C 298C
Kindersley	292C(#)
Leader	208B, 218A, 223B
Mankota	222A, 237A
Maple Creek	300C
Melville	270B
Moose Jaw	229C, 281B, 296C
Ponteix	216B(#), 279B
Regina	205B, 212C, 221C, 233C 245C(#), 249B, 255C, 264C(#) 285C, 300C
Shaunavon	204A, 214A, 294C(#)
Stranraer	211B(#), 216B(#), 247B(#)
Swift Current	202B, 210B(#), 220B, 231C 239A, 265C(#), 290C(#)
Val Marie	207A, 218A(#)
Wapella	204B, 216A, 228B, 239B
Weyburn	268C, 278C
Willow Bunch	243A, 259B, 276B, 283B
Wynyard	247B(#), 283B, 298B
Yorkton	202A(#), 209B(#), 214B 219B(#), 231C, 243C

## **Yukon**

### **Assignments-Allotments**

Dawson	221C
Faro	286A
Whitehorse	223C

**Table B**  
**United States of America**

**Legend**

\* - Short-Spaced Allotment/Assignment

O - Over Power Station

- |                                     |                                      |
|-------------------------------------|--------------------------------------|
| (1) Limited to 30 kW - 150 metres   | (23) Limited to 24 kW - 140 metres   |
| (2) Limited to 30 kW - 91.5 metres  | (24) Limited to 22 kW - 36.5 metres  |
| (3) Limited to 20 kW - 150 metres   | (25) Limited to 45 kW - 134 metres   |
| (4) Limited to 16 kW - 192 metres   | (26) Limited to 0.9 kW - 173 metres  |
| (5) Limited to 110 kW - 195 metres  | (27) Limited to 10.5 kW - 194 metres |
| (6) Limited to 50 kW - 150 metres   | (28) Limited to 4 kW - 675 metres    |
| (7) Limited to 9.7 kW - 122 metres  | (29) Limited to 0.63 kW - 58 metres  |
| (8) Limited to 100 kW - 385 metres  | (30) Limited to 50 kW - 140 metres   |
| (9) Limited to 100 kW - 461 metres  | (31) Limited to 30 kW - 174 metres   |
| (10) Limited to 2.95 kW - 22 metres | (32) Limited to 0.85 kW - 98 metres  |
| (11) Limited to 3.1 kW - 73 metres  | (33) Limited to 3 kW - 30 metres     |
| (12) Limited to 2 kW - 30.5 metres  | (34) Limited to 35 kW - 152 metres   |
| (13) Limited to 20 kW - 91.5 metres | (35) Limited to 0.38 kW - 30 metres  |
| (14) Limited to 100 kW - 310 metres | (36) Limited to 50 kW - 600 metres   |
| (15) Limited to 93 kW - 238 metres  | (37) Limited to 20 kW - 600 metres   |
| (16) Limited to 0.27 kW - 18 metres | (38) Limited to 6 kW - 245 metres    |
| (17) Limited to 29 kW - 149 metres  | (39) Limited to 30 kW - 73 metres    |
| (18) Limited to 1.3 kW - 69 metres  | (40) Limited to 2.5 kW - 156 metres  |
| (19) Limited to 10 kW - 150 metres  | (41) Limited to 100 kW - 400 metres  |
| (20) Limited to 16 kW - 100 metres  | (42) Limited to 3 kW - 52 metres     |
| (21) Limited to 0.1 kW - 35 metres  | (43) Limited to 2 kW - 136.5 metres  |
| (22) Limited to 3 kW - 77 metres    | (44) Limited to 6 kW - 66 metres     |

**Table B (US FM Allotments)**

**Alaska**

Cordova	265A
Delta Junction	228A
Fairbanks	218A, 240A, 251C, 266C, 273C, 284C
Haines	272A
Juneau	264C, 274C, 282C, 286C, 292A
Ketchikan	290C2, 294C
Petersburg	265A
Sitka	284C
Wrangell	269A
Yakutat	280A

## **Idaho**

Coeur d'Alene	272A, 276C2
Hayden	233A
Lewiston	205A, 243C, 268C1, 295C
Moscow	207A, 219C, 291C
Orofino	237A
Sandpoint	237A, 273A
Wallace	248C, 264C

### **Indiana (continued)**

Rushville	232A
South Bend	219A, 225B, 268B, 276A, 280A, 292A
South Whitley	266A
Van Buren	257A
Wabash	240A
Warsaw	297B
Winchester	252A

## **Massachusetts**

Amherst	203B, 207A, 216A, 265A
Andover	219A
Athol	260A
Boston	205B1, 209B(O), 215B, 220A, 233B 245B, 253B, 264B, 277B, 281B, 294B
Boxford	202A
Brookline	225B
Cambridge	201A, 237A
Charlton	211A
Concord	202A
Deerfield	219A
Fitchburg	217A, 283B
Framingham	217A, 289B
Gloucester	285A
Great Barrington	286A
Greenfield	237A, 252A
Haverhill	223B
Lawrence	229B
Lowell	218A, 258B
Lynn	269A
Maynard	219A
Medford	218A, 300B
Milton	218A
Newton	212A
North Adams	216A, 261A
Northampton	220A, 257A, 292A
Northfield	218A
Orange	247A
Pittsfield	209A, 240A, 269A, 288A
Salem	219A
Sheffield	219A
South Hadley	218A
Springfield	226B
Stockbridge	217A
Turners Falls	230A
Waltham	273B
Westfield	208A
Williamstown	220A
Winchendon	249A
Worcester	201A, 213B1, 217A, 220A, 241B, 297B

**Maryland**

Frostburg  
Grantsville

246A, 287B  
212B

## Maine

Auburn	260B
Augusta	222B, 267B
Bangor	203C, 207B1(*), 215B, 225B, 246B
Bar Harbor	256B1, 299B
Bath	290B(O)
Belfast	284B
Biddeford	232B1
Blue Hill	210B
Boothbay Harbor	244B1
Brewer	262B, 293C
Brunswick	216A, 255B
Calais	209C(*14), 224A
Camden	273B
Caribou	249A
Dennysville	275A
Dexter	271A
Dover-Foxcroft	276A
Ellsworth	233B, 239B
Fairfield	227A
Farmington	257A
Gardiner	282B
Gorham	215A
Houlton	261A
Howland	280A
Kennebunk	257A
Kennebunkport	284A
Kittery	287A
Lewiston	218A, 230B, 298B
Lincoln	289C2
Machias	237A
Madawaska	272A(*)
Madison	248A
Mexico	264A
Milbridge	229B
Millinocket	235C2
North Windham	294A
Norway	224A
Old Town	297B
Orono	220A
Pittsfield	258A
Portland	211C, 226B, 250B, 270B, 275C(*9)
Presque Isle	241C, 245C, 269A, 291C

### Maine (continued)

Rockland	277B1
Rumford	242C(*)
Saco	240A
Sanford	221A
Scarborough	292A
Skowhegan	286C(*), 300A
Standish	218A
Thomaston	295A
Topsham	238A
Van Buren	251A
Waterville	213A, 217A, 253C2
Westbrook	265A
Winslow	237A
York Center	237A

## Michigan

Adrian	237A, 280A
Albion	244A
Allegan	222A
Allendale	203A
Alma	285A
Alpena	219C(*42), 228A, 299C
Ann Arbor	202A(*), 219B(*0,15), 275B(*), 296A
Atlanta	223C(*)
Auburn Heights	208A(*43)
Bad Axe	221A
Baraga	282C
Battle Creek	237A, 277B
Bay City	206C2, 211C2, 217A, 241C(*8), 273B(0)
Bear Lake	261A
Beaverton	249A
Benton Harbor	235A, 260B
Berrien Springs	214B
Big Rapids	265A, 272A
Birmingham	234B(*)
Boyne City	228A
Brooklyn	287A
Buchanan	256A
Cadillac	216C1, 225C, 244A, 296A
Caro	285A
Carrollton	263A
Charlevoix	290C
Charlotte	224A
Cheboygan	286C
Clare	237A
Coldwater	253B
Coleman	268A
Crystal Falls	264C
Dearborn	207A(*16), 262B(*)
Detroit	215B, 222B, 226B, 238B(*0), 242B(*), 246B(*), 250B, 254B, 258B(*), 266B, 270B(0), 278B(*0), 282B(0), 286B(*), 290B(*), 294B(*0), 298B(*)
Dewitt	243A
Dowagiac	221A
East Jordan	265A
East Lansing	205A(*), 231B(0), 235B, 256B
Escanaba	246C(*), 284C
Essexville	247A

## Michigan (continued)

Flint	216B(*17), 224A, 236B(*1), 288A, 300B(*)
Frankfort	257A
Fremont	261A
Galesburg	215B
Gaylord	213C, 237A(*), 294C
Gladstone	288A
Gladwin	276A
Glen Arbor	240A
Grand Haven	221A
Grand Rapids	205A, 210A(*), 217B, 229B(0), 239B, 245B, 250B, 255A, 267B, 275B, 281B(0), 289B(0)
Grayling	261A
Greenville	297B
Gulliver	234C
Hancock	228A, 254C2
Harbor Beach	289C2
Harbor Springs	280A
Harrison	221A
Hart	287C
Hartford	279A
Hastings	261A
Hesperia	212C1
Hillsdale	221A
Holland	210A, 233B(0), 241B
Houghton	216C, 249A, 272A
Houghton Lake	253C
Howell	228A(*)
Hudson	249A
Interlochen	202C(0), 204C
Iron Mountain	226C, 268C
Iron River	257A
Ironwood	259C, 295C
Ishpeming	222C, 298C1
Jackson	231B(*), 291B
Kalamazoo	206A, 210A(*), 271B, 293B, 299B
Kalkaska	248C2
Kingsford	251A
Lakeview	292A
Lansing	248B, 264B, 269A
Lapeer	276A(*)
Leland	232A
Ludington	292A

## **Michigan (continued)**

Mackinaw City	232A
Manistee	249A, 300A
Manistique	234C
Marquette	211C, 239C(*), 277C
Marshall	285A
Menominee	280A
Midland	227C2, 259C(*)
Mio	280A
Monroe	252A
Mount Clemens	274B(*)
Mount Pleasant	208C, 218A, 233C, 282A
Munising	252C2
Muskegon	269A, 283B, 295B, 300A
Newberry	228A, 250C2
Niles	237A
North Muskegon	252A
Norway	232A
Olivet	209A
Ontonagon	252A
Oscoda	239C2, 261A
Otsego	265A
Ovid-Elsie	217A
Owasso	280A
Pentwater	276A
Petoskey	242C, 255C
Pinconning	265A
Pittsford	216A
Plymouth	201A(*19)
Port Huron	202A(*18), 217A, 220A, 272A, 296A
Portage	243A
Rockford	220A
Rogers City	249A
Roscommon	266A
Saginaw	251B, 283A, 292A(*), 296A
Sandusky	249A(*)
Saugatuck	224A
Sault Ste. Marie	252A, 258C, 267C
Scottville	240A
Sebewaing	280A(*)
South Haven	252A
Southfield	202A(*)
Spring Arbor	207B(*11), 295A

### **Michigan (continued)**

St. Ignace	275C
St. Johns	221A
St. Joseph	296A
Standish	245A
Stephenson	257A
Sturgis	257A
Tawas City	269A(*), 284C2
Three Rivers	240A
Traverse City	210C2, 215A, 221A(*), 270C, 278C
Tuscola	269A(*)
Twin Lake	212C
Vandalia	210A
Vassar	255A
Walker	263A
Warren	206A(*12)
West Branch	288A
Whitehall	237A, 273A
Wurtsmith	235A
Wyoming	201A
Ypsilanti	206B(*21)
Zeeland	207B, 257A

## **Minnesota**

Ada	292A
Aitkin	232A
Alexandria	224A, 257A
Babbitt	294A
Bemidji	203C, 209A, 266C, 279C
Brainerd	214C1, 294C, 298C
Breckenridge	286C
Breezy Point	237A
Browerville	259A
Cambridge	288A
Cloquet	265A
Crookston	218A, 241C1, 246C
Crosby	269A
Deer River	288A
Detroit Lakes	236C
Duluth	206A, 213A, 225C, 235C, 239C, 255C, 269A, 277C, 286C
East Grand Forks	282C1
Ely	221A
Eveleth	250C1
Fergus Falls	243C, 277C
Fosston	296A
Grand Marais	263C
Grand Rapids	219C, 245C
Hibbing	230C, 292A
International Falls	218A, 258C, 281C
Little Falls	221A, 231A
Moorhead	216C, 254C, 260C
Mora	237A
Nisswa	227C
Osakis	280A
Park Rapids	248C
Pequot Lakes	261A
Pine City	221A
Princeton	292A
Roseau	271C2
St. Cloud	251C
Staples	234A
Thief River Falls	211A, 257A, 262C1(*), 274C1
Two Harbors	282A
Virginia	260C1
Virginia/Hibbing	215C
Wadena	290C
Walker	257A
Warroad	223C1

## **Montana**

Baker	263C
Browning	204C
Chinook	267C
Columbia Falls	240A
Conrad	229A
Cut Bank	274C
Deer Lodge	244A
East Helena	281C
Forsyth	267C
Glasgow	228A
Glendive	243C
Great Falls	210C, 225C, 233C, 255C, 262C, 291C, 297C
Hamilton	240A
Havre	211C2, 223C, 236C
Helena	217A, 258C, 266C, 287C
Kalispell	246C, 253C, 280A
Lewistown	240A
Libby	269A
Malta	261A
Miles City	214A, 223C
Missoula	206C, 210C2, 227C, 235C, 261A, 273C
Outlook	289C
Plentywood	261A
Ronan	222C
Scobey	239C
Shelby	242C, 250C
Sidney	226C1, 236C
Wolf Point	224A

## North Dakota

Belcourt	203C
Beulah	250A
Bismarck	213C, 225C, 233C, 243C, 254C
Bottineau	270C
Carrington	252A
Devils Lake	244A, 273C, 278C
Dickinson	210C2, 221A
Fargo	205C1, 220C, 229C, 250C, 270C, 300C
Four Bears	217C
Grafton	265A
Grand Forks	207C(*8), 225C(*), 234C, 298C
Jamestown	227C, 238C
Langdon	239A
Lisbon	291C2
Mandan	284C
Mayville	288A
Minot	205C, 229C, 246C, 260C, 287C1, 295A
Oakes	222C2
Sarles	290C
Tioga	280A
Valley City	265A
Wahpeton	296A
Williston	208C2, 241C, 253C, 266C1
Wishek	262C

## New Hampshire

Bedford	243A
Belmont	227A
Berlin	279C
Campton	289A
Claremont	291B(*)
Concord	206B, 213A, 218A, 272A, 288A
Conway	228A, 283A
Dover	248B
Durham	217A
Exeter	213A, 296A
Farmington	293A
Franklin	232A
Gorham	296A
Hampton	271A
Hanover	222A, 257A
Haverhill	267A
Henniker	219A, 256A
Hillsboro	299A
Hinsdale	285A
Jackson	258A
Keene	214B1, 217A, 219A, 279B
Laconia	252A
Lancaster	272A
Lebanon	263A
Lisbon	244A
Littleton	292A(*)
Manchester	239B, 266B
Moultonborough	295A
Mount Washington	235C(0)
Nashua	201A, 202A, 292A
New Durham	219A
New London	259A
Newport	269A
Peterborough	221A
Plymouth	219A(*), 261A
Portsmouth	262B(0)
Rochester	244A
Somersworth	254A
Walpole	242A
Winchester	254A
Wolfeboro	285A

## New York

Albany	212B(0), 215A, 238B, 265A, 276A, 293B, 299B
Alfred	209A, 215A
Amsterdam	249A
Attica	269A
Auburn	205A, 295B
Avon	227A
Baldwinsville	213A, 221B1
Batavia	214A(*)
Bath	252A, 276A(*)
Big Flats	249A
Binghamton	207B, 213A, 218B1, 251B, 256B
Boonville	267A
Bridgeport	258A
Brockport	205A(*)
Buffalo	204B1(*13), 210B1 (*44), 217A(*22), 225B(*0), 233B(*0), 241B(*), 245B(*4), 258B(05), 273B(*0), 277B(*1), 281B(*), 293B(*)
Canajoharie	227A
Canandaigua	205A, 272A(*)
Canton	208C2(*20), 244A(*), 268A
Cape Vincent	234A, 274A
Carthage	276A(*)
Catskill	253A
Cazenovia	205A
Central Square	207A(*)
Cherry Valley	270B
Clifton Park	244A
Clinton	204A
Clyde	229A
Cobleskill	278B
Copenhagen	294A
Corinth	228A
Corning	254A, 291B
Cortland	213A, 260B
Dansville	230A
Delhi	262A
Depew	229B(*)
Deposit	234A
Deruyter	286B
Dryden	211A
Dundee	240A
Ellenville	257A

## New York (continued)

Elmira	212B1, 224A, 232A
Endicott	289B
Fort Ann	219B1
Fort Plain	266A
Frankfort	235B
Fredonia	205A(*), 243A
Friendship	206B1
Fulton	284B
Geneseo	207A
Geneva	209A, 269A
Glens Falls	240A
Gouverneur	237A(*)
Greece	211A(*23)
Hamilton	211A
Henrietta	209A(*), 213B(*41)
Herkimer	224A
Highland	297A
Homer	268A
Honeoye Falls	297A
Hoosick Falls	248A
Hornell	221A, 287B
Horseheads	265A
Houghton	212B1(*10)
Hudson	216B1, 228A
Hudson Falls	269A, 296A
Hyde Park	249A
Irondequoit	294A
Ithaca	203B1, 215B1, 219B(*), 228A, 247B, 279B
Jamestown	215B1, 227B(*), 269A
Jeffersonville	213A
Johnstown	285A
Kingston	209B, 215B1, 232A
Lake Luzerne	234A
Lake Placid	288A(*)
Liberty	240A
Little Falls	288A(*)
Loudonville	202B
Lowville	257A
Malone	215A, 243A
Manlius	239B1
Mechanicville	283A
Middletown	224A

## New York (continued)

Monticello	252A
Montour Falls	285A(*)
New Paltz	204A, 227A
Newburgh	211B
Niagara Falls	253B(*)
North Syracuse	265A
Norwich	230B
Ogdensburg	224A
Old Forge	231A, 259A
Olean	239B(0), 265A
Oneida	292A
Oneonta	209A, 215A, 276A, 280A
Oswego	210B(*24), 244A, 288A(*)
Owego	269A
Palmyra	259A
Phoenix	271A
Plattsburgh	209C2, 260C(*6), 278A
Port Henry	221A
Port Jervis	244A
Potsdam	216A(*), 257A
Poughkeepsie	204B1, 217B1, 241A, 268B
Pulaski	269A(*)
Queensbury	289B1
Ravenna	233A
Remsen	228A
Rensselaer	280A
Rochester	203A(*25), 218B(*26), 223B(*), 243B(*25), 250B(*), 255B(*), 263B, 267B(*), 280A(*), 290A
Rome	241B1, 273B
Rotterdam	252A
Salamanca	252A
Saranac Lake	213A, 269A
Saratoga Springs	216A, 272A
Schenectady	206B, 209A, 258B
Schoharie	247A
Seneca Falls	257A
Sidney	265A
Sodus	278A
South Bristol	236B
Spencer	203B1
St. Bonaventure	202A
Stillwater	267A

## **New York (continued)**

Syracuse	202B(*), 206A, 212A(*27), 217B, 226B, 233B(0), 275B, 290A, 300B
Ticonderoga	280A
Town of Mt. Hope	211B1
Troy	218B, 222B
Tupper Lake	272A
Utica	208B(*28), 214A, 220A, 245B, 254B, 264A, 282B(0), 297B(*)
Vestal	277A
Voorheesville	242A
Walton	221A
Warrensburg	263A
Waterloo	253A
Watertown	215C2(*29), 219A, 228A(*), 248C
Waverly	272A
Webster	201B(*40), 207A(*), 274A
Wellsville	228A
Weathersfield	299B(*1)
Whitehall	231A
Woodstock	261A
Wurtsboro	247A
Yorkshire	217A(*)

## Ohio

Ada	235A
Akron	201B1(*39), 206A, 243B, 248B(*)
Alliance	216A, 223B
Archbold	208A, 240A
Ashland	205A, 267B(0)
Ashtabula	246B(0)
Athens	217B(0), 288A
Bainbridge	202A
Barnesville	228A
Batavia	204B
Beavercreek	280A
Bellaire	204A, 263B
Bellefontaine	252A
Bellevue	221A
Belpre	208A, 219A, 296A
Berea	202A
Bowling Green	201A, 228A
Bryan	265A
Bucyrus	224A
Byesville	249A
Cadiz	292A
Caldwell	285A
Cambridge	206B1, 244A
Canton	231B, 251B, 295B
Castalia	249A
Cedarville	212B
Celina	232A, 244A
Chillicothe	207A, 227B1, 232B1
Cincinnati	202A, 227B
Circleville	296A
Cleveland	207A(*30), 212B(*), 216A, 226B, 238B, 253B, 258B(0), 264B, 271B, 277B(*), 281B, 289B(*), 293B, 300B(*)
Cleveland Heights	222B
Clyde	213A, 265A
Columbus	204A, 209B, 213B, 218A, 222B, 234B, 242B, 246B, 250B(0), 259B(0), 298A
Conneaut	288A
Coshocton	257A
Crestline	254A
Crooksville	297A
Dayton	208B1, 256B(0), 284B(0), 299B
Defiance	251B, 290A

## Ohio (continued)

Delaware	300A
Delphos	296A
Delta	293A
Dover	269A
East Liverpool	282B
Eaton	225B
Edgewood	273A
Elyria	297B
Fairfield	235B
Findlay	202A, 263B
Fort Shawnee	298A
Fostoria	244A(*)
Fredericktown	252A
Fremont	256B
Gahanna	285A
Galion	272A
Gallipolis	268B
Gambier	220A
Geneva	285A(*)
Gibsonburg	239A
Granville	216A
Greenfield	248A
Greenville	218A, 293B
Grove City	266A
Hamilton	208A, 243B, 278B
Hillsboro	294B
Holland	272A
Huron	241A
Jackson	249A
Jefferson	215B
Johnstown	276A
Kent	209B(*31), 261A
Kenton	237A
Kettering	260B(0)
Lancaster	215A, 238B, 278A
Lebanon	247A
Lima	214B, 226A, 249A, 271B, 285A
Logan	252A
London	292A
Lorain	285A
Loudonville	299A
Mansfield	219A, 287B, 291B

## Ohio (continued)

Marietta	202B, 232A
Marion	232A, 295B
Marysville	289A
Mcarthur	254A
McConnelsville	265A
Medina	235B(*)
Miamisburg	229B(0)
Middleport	221A
Middletown	290B
Milford	296A
Millersburg	237A
Montpelier	283A
Morrow	206A
Mount Vernon	215A, 229B
Napoleon	276A
Nelsonville	299A
New Concord	214A
New Lexington	292A
New Philadelphia	240A
Newark	262B, 269A
Niles	291A
North Baltimore	299A
Norwalk	237A
Oak Harbor	247A
Oberlin	218A
Ottawa	292A
Oxford	203B, 249A
Paulding	259A
Piqua	239B
Port Clinton	233B(*2)
Salem	286B(0)
Sandusky	274B(*)
Shadyside	239A
Shelby	261A
Sidney	288A
Springfield	264B(0), 275B
St. Marys	277A
Steubenville	278B
Streetsboro	218A
Struthers	214B
Swanton	297A
Sylvania	288A

## Ohio (continued)

Tiffin	279B
Toledo	202A(*), 212A(*), 217B(*32), 223B, 260B(*3), 268B(*), 284B(0)
Troy	245A
Uhrichsville	260A
Union City	248A
University Heights	204A(*33)
Upper Arlington	255A
Upper Sandusky	240A
Urbana	269A
Van Wert	255B
Wapakoneta	221A
Washington Court	288A
Wauseon	245A
Waverly	265A
Wellston	244A
West Carrollton	201B, 221A
West Chester	210A
Westerville	280A
Wilberforce	205A
Willard	245A
Wilmington	272A
Wooster	215A, 283B(0)
Xenia	237A
Yellow Springs	217B
Youngstown	203B, 219A, 227B, 255B, 266B
Zanesville	211B1, 224A, 273B

**Oregon**

Astoria	220C, 225C
Banks	298A
Beaverton	277C
Gresham	206C
Hood River	288A
Lake Oswego	294C
Portland	202C2, 210C, 214C, 218C, 222C, 229C, 238C, 246C, 253C, 258C, 262C, 266C, 270C
Seaside	234A
Tillamook	281C2

## Pennsylvania

Altoona	251B(0), 261A
Avis	260A
Barnsboro	223A
Beaver Falls	202A, 215A, 294B
Bedford	265A, 298A
Bellefonte	237A
Bellwood	280A
Benton	240A
Berwick	278A
Blairsville	292A
Bloomsburg	216A, 293B
Boalsburg	225A
Braddock	245B
Bradford	261A
Brookville	240A
Butler	249A
California	220A
Canton	262B1
Carbondale	232A
Carlisle	272A
Central City	269A
Charleroi	252A
Clarion	219A(*), 224A
Clearfield	228A
Coudersport	244A
Cresson	232A
Curwensville	275A
Dallas	229A
Danville	244A
Dubois	271B, 297B(0)
Edensburg	256B
Edinboro	205A, 250A
Elizabethville	263A
Ellwood City	221A
Emporium	257A
Erie	210A(*34), 217B(*35), 234A, 260B(*7), 272A, 279B
Everett	282A
Franklin	257B1
Freeland	276A
Greensburg	296A
Greenville	201A, 296A
Grove City	216A, 236B(*)

## Pennsylvania (continued)

Hazelton	250B
Hollidaysburg	285A
Honesdale	237A
Huntingdon	278A, 292A
Indiana	211A, 223A, 276A
Jersey Shore	228A, 249A
Johnsonburg	277A
Johnstown	205B, 221A, 238B(0), 243B
Kane	280A
Lewisburg	217B1, 242A
Lewistown	240A, 288A
Linesville	269A
Lock Haven	221A
Mansfield	208A
Martinsburg	224A
Masontown	295A
Meadville	212A, 262B(*1)
Mercer	244A, 280A
Mexico	223A
Meyersdale	227A
Mifflinburg	252A
Mifflintown	296A
Millersburg	255A
Milton	265A
Montrose	243B(0)
Mount Carmel	259A
Mount Union	258A
Mountaintop	246A
Muncy	280A
Nanticoke	206A, 221A
New Kensington	264B
New Wilmington	205A
North East	265A
Northumberland	297A
Oil City	253B
Oliver	235A
Olyphant	239A
Patton	234A
Philipsburg	290A
Pittsburg	202A, 207B, 213B, 217B, 225B(0), 229B, 233B(0), 241B(0), 259B(0), 268B, 273B(0), 284B(0), 298B(0), 300B(0)
Pittston	272A

## Pennsylvania (continued)

Port Allegany	235A
Portage	289A
Pottsville	270B
Punxsutawney	288A
Renovo	226A
Reynoldsville	258A
Ridgebury	245A
Russel	276A
Saegertown	232A(*)
Salladasburg	238A
Scottdale	280A
Scranton	210B, 218A, 258A, 267B, 285A, 296A
Selinsgrove	205B
Shamokin	237A
Sharon	275B(*1), 280A
Sharpsville	240A(*)
Slippery Rock	211A
Smethport	292A
Somerset	249A
South Williamsport	257A
Spangler	247A
St. Marys	232A, 248B
State College	210B, 216A, 233A, 276A
Sunbury	231B
Susquehanna	223A
Sweet Valley	201A
Tioga	227A
Tobyhanna	300A
Towanda	237A
Tunkhannock	299A
Tyrone	266B
Union City	292A
Uniontown	257A
University Park	244A
Warren	222B*
Washington	237A
Waynesburg	276A
Wellsboro	283B(*)
Whitneyville	296A
Wilkes-Barre	203A, 214B, 225B, 253B
Williamsport	201A, 219A, 274B(0), 286B, 300A

## Vermont

Barre	296A
Bellows Falls	296A
Bennington	232A
Bolton	206A
Brattleboro	224A, 244A
Burlington	211A(*), 225C(*), 255C(*6), 300C(*)
Canaan	231A
Castleton	217A(*)
Colchester	204A
Danville	239A
Derby Center	221A
Hartford	282A
Johnson	214A(*36)
Killington	287C2
Lyndon	252A
Lyndonville	218A*
Manchester	274B(*)
Marlboro	268A
Middlebury	219A(*), 265A
Montpelier	244A(*)
Plainfield	216A(*)
Randolph	272A
Randolph Center	214A(*)
Rupert	281A
Rutland	204C2, 213A, 233A, 246C2, 251C2
South Burlington	237A(*)
Springfield	228A
St. Albans	272A(*)
St. Johnsbury	288A(*)
Stowe	269A(*)
Sunderland	236A
Vergennes	294C2
Warren	241A
Waterbury	276A
West Rutland	298A
White River Junction	237A
Williston	215A
Wilmington	264A
Windsor	208B
Woodstock	230A

## Washington

Aberdeen	216A, 257A, 284C
Auburn	210A
Bellevue	217A(*), 223C(*)
Bellingham	207A(*), 219A(*), 225C(*), 282C
Bremerton	295C(*)
Camas	234A
Cashmere	266A
Centralia	217A(*), 275C
Chelan	228A
Cheney	208C1(*), 266C
Clarkston	231C
Colfax	272A
Colville	221A
Davenport	273A
Dayton	223A
Deer Park	296C2*
East Wenatchee	249A
Edmonds	287C(*0)
Ellensburg	237A, 276C2
Ephrata	240A
Everett	214A(*)
Forks	280A
Gig Harbor	210A
Grand Coulee	253C
Grandview	265A
Hoquiam	237A
Kelso	233A
Kennewick	201A
Long Beach	232A
Longview	208A, 212A, 288A
Lynden	293C(*)
Medical Lake	237A
Moses Lake	257A, 262C
Mount Vernon	211A(*)
Naches	245A
Newport	218A, 285A*
Olympia	207A, 241C(*)
Omak	224A
Opportunity	241C
Othello	249A
Pasco	211C, 252A
Prosser	269A

## Washington (continued)

Pullman	201A, 214A, 258C, 282C
Quincy	244A
Raymond	249A
Richland	293C
Rock Island	258A
Seattle	208C(*), 212A(*), 227C, 231C, 235C, 239C, 243C, 251C(*), 255C(*), 260C(*), 264C(*), 268C, 273C, 299C(*)
Spokane	204A, 216C, 220A, 225C, 229C, 251C(*), 255C, 260C(*), 280A, 289C, 300C
Sunnyside	244A
Tacoma	203C(*), 211A, 215C(*37), 219C(*38), 247C(*), 279C, 291C
Toppenish	225C2
Twisp	292A
Wapato	208C1
Wenatchee	271C(*), 285A
Yakima	203A, 216A, 220C, 233C, 257A, 281C, 289C1, 297C

## Wisconsin

Algoma	243A
Antigo	287C
Ashland	244A
Brule	210C
Crandon	244A
Eagle River	232A
Hayward	221A, 269A
Ladysmith	224A
Marinette	236C
Medford	257A
Merrill	228A
Minocqua	240A
New Richmond	296C2
Oconto	296A
Park Falls	212C2, 252A
Peshtigo	241A
Reserve	205C
Rhineland	219C1, 248C, 262C2
Rice Lake	242C, 249C2
Shell Lake	237A
Spooner	292A
Sturgeon Bay	213C1, 230C, 249A, 259C2
Superior	217A, 273C
Tomahawk	224A
Washburn	290C

## **West Virginia**

Barrackville	226A
Bethany	201A
Bethlehem	288A
Clarksburg	224A, 285A, 293B(0)
Fairmont	232A, 250B
Mannington	274A
Morgantown	215B, 219A, 261A, 270B(0)
Moundsville	243A
New Martinsville	280A
Parkersburg	207B1, 212B, 219A, 236B(0), 257A, 276A
Point Pleasant	258A
Ravenswood	291A
Salem	289A
St. Marys	269A
Vienna	261A
West Liberty	216A
Westover	265A
Wheeling	210B, 220A, 247B, 254B, 298B