

THE JANUARY 1936

RADIO IN INDEX

The All-wave DX Log of the World



25^c

30c in
Canada

When and Where to Tune
for the Day's News
The Short Wave Stations
of the World

No. 95

Equip Your Radio with Head Phones

A necessity to the hard-of-hearing and to those who want to listen-in when others in the house are asleep or ill. Shuts out the room noises and reduces the static.

The Perfect Phone Adapter

may be installed in any set in two minutes without tools. Merely insert the socket-adapters (A) under the audio power tube or tubes and leave them there. The toggle switch on box (B) cuts speaker in or out at will. The tips of the phones (E) are inserted in little jacks in the box which may be placed in or under the set.

Price of Adapter complete \$3.95 postpaid.

If you desire to use the Phones at a distance from the set (or use a second speaker in another room) you will need the extension cord and connector (C). Ten foot lengths, 50c.

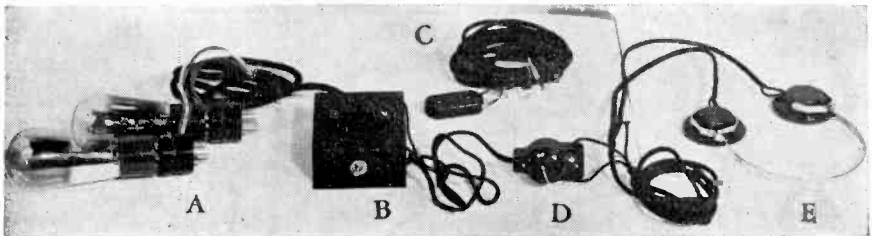
If you desire to regulate the volume of the set from a distance or cut out the "blurbs" or talks, you will need the Distant Volume Control (D). Price \$2.00.

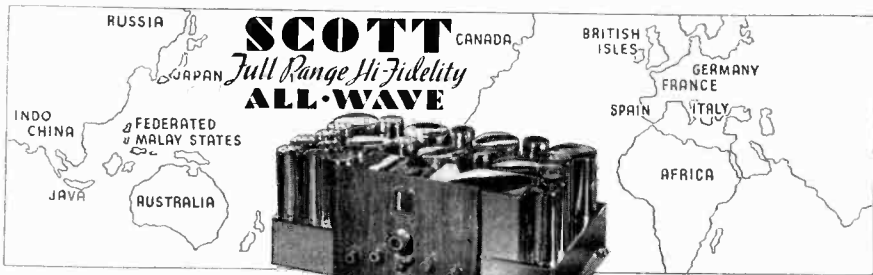
Trimm Featherweight Head Phones of the very finest quality. \$8.05 postpaid. Others as low as \$2.75.

In ordering be sure to give make and model of receiver and a list of the tubes used.

In Ohio, add 3% for sales tax.

The Radex Press, Inc. Conneaut, Ohio





SCOTT PERFORMANCE *Begins* WHERE THE OTHERS STOP

● Here's a target for distance sharpshooters all over the world to level guns at! Here is **proof** that the **SCOTT ALLWAVE** is the finest receiver in the world!

From F. L. Stitzinger in Pennsylvania comes this **verified** list of 34 foreign countries, 98 foreign stations, 1651 foreign programs—not merely logged, but **verified!** All within a short six months period! No other receiver in the world has equalled this **verified** world record performance during any six consecutive months tuning!—Argentina, Australia, Belgian Congo, Bernuuda, Bolivia, Brazil, Belgium, Canada, Columbia, Costa Rica, Cuba, Denmark, Ecuador, England, Federated Malay States, France, Germany, Hawaii, Holland, Indo-China, Italy, Japan, Java, Kenya Colony, Mexico, Morocco, Peru, Portugal, Republic Dominica, Russia, Spain, Uruguay, Venezuela! Every station, every program, **verified!**



E. H. SCOTT, designer and custom-builder of world's finest radio receivers since 1924

MR. SCOTT'S PERSONAL MESSAGE TO YOU

Says Mr. Scott: "Mr. Stitzinger's list is only one of thousands which **SCOTT** owners constantly send in to our laboratories—**SCOTT** owners receive and have **verified** 3 times as many foreign stations as are received on sets of other radio manufacturers—**SCOTT ALLWAVE** receivers are giving distinguished service in more than 146 countries throughout the world. . . . We have over 600 expert Installation and Service representatives' over entire United States alone—to give you instant service should you ever need it. This, even though every **SCOTT** receiver carries five year guarantee of perfect service."

FACTS ARE YOUR GUARANTEE

Here is reception not even *approached* by any other receiver anywhere on earth—regardless

of price! This is not "sales talk." These are vital facts—of deep interest to every DX enthusiast.

To enjoy the really great world music, to hear the tremendous events which are moulding history—still to be in tomorrow's headlines—you *must* have High Class "A" speaker power.

SCOTT 23 TUBE ALLWAVE has 35 Watts Strictly Class "A" Power, 50 watts Class "AB" power—6 times undistorted output of average receiver—for vaster distances.

Bullet-Direct Variable Selectivity 2 to 16 KC—3 times better than selectivity of average receiver—to pierce through powerful local stations and bring in weak distant stations thousands of miles distant.

6 Microvolt Sensitivity—Twice that of any other radio receiver.

25 to 16,000 Cycle Hi-Fidelity—provably twice the tonal range of any other high fidelity receiver—a fact which we can demonstrate in any comparative test.

Dial Calibration—accurate on all tuning bands for the first time in radio history.

Foreign Station Locator—tunes in the short wave stations instantly.

More Important PERFORMANCE Features Than Any Other Receiver—including True Bass Control—True Separate Treble Control—23 Tubes, New Highest Efficiency Type—Overize Construction throughout—Includes many advanced laboratory developments which cannot be incorporated in production type radio receivers.

Compare It in Your Home

These celebrities demand the world's finest quality—all are **SCOTT** owners—Toscanini—Guy Lombardo—Eddie Cantor—Walter Winchell—Ted Husing—Rudy Vallee—Al Jolson—and hundreds more. The **SCOTT** is the choice of Presidents and Princes all over the world.

Unqualifiedly guaranteed to bring you more foreign stations with stronger volume, with more crystal clear tone, with less noise than any other receiver in the world—in your own home! 30 days' trial. You can own the **SCOTT** for no more than you would pay for an ordinary receiver.

The Secret of Superiority

How is such an unequalled guarantee possible? The **SCOTT** is strictly custom-built—to highest precision standards known. Sent to you direct from laboratories—fully adjusted and proved, with nationwide installation service.

Read coupon below—**NOW**—and decide *right now*—without delay—to send for the most thrilling story of world-covering performance in the history of radio!

Visit our new permanent salon at 630 Fifth Ave., Rockefeller Center, New York City.



SEND THIS COUPON TODAY—DETAILS FREE!

E. H. SCOTT RADIO LABORATORIES, Inc.
424 Ravenswood Ave.,
Dept. 346, Chicago, Ill.

Send "94 PROOF" of the SCOTT's superior tone and DX performance, and particulars of 30-day home trial anywhere in U. S. A.

Name

Street

City State

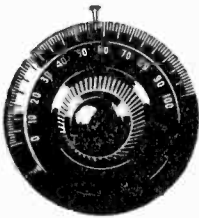
Builder of WORLD'S FINEST CUSTOM-BUILT RADIO RECEIVERS Since 1924

January 1, 1936

RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER
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DX Editor

PAGE TAYLOR
Short Wave Editor

TWELFTH YEAR

PAGE 95

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Printed in the U. S. A.

WIP 610	CRCK 1050	WFIL 560	WLW 700 ⁹	WTIC 1040	Blue Net	WICC 600	WTIC 1040 ²
11:00 p.m.	WBEN 900	WBEX 1430	WNAE 1230	11:05 p.m.	11:15 p.m.	11:30 p.m.	Midn't.
CPFB 600 ⁵	WCAE 1220	WIBX 1200	WOR 710	WELI 590	CBS Sun.		WCAU 1170
CFRB 690	WELI 590 ²	WJAS 1200	WPRO 630	11:10 p.m.	11:20 p.m.	Red Net ²	WCKY 1190
	WFBR 1270	WKJC 1290	WTAG 580				

CENTRAL STANDARD TIME

5:30 a.m.	WTMV 1500	WGST 890	WHBU 1210	WMT 600	KGEX 630	6:15 p.m.	KSO 1430
KFNF 890	8:15 a.m.	WHBU 1210	WISN 1120	WSM 650	KMBC 950	KFNF 890	KTBS 1450
6:15 a.m.	KFJM 1370	WIND 560	WJJD 1130	WTAX 1210	KSTP 1460	KSTP 1460	WGN 720
KFEQ 680	KGFK 1500	WJTL 1370	WJTL 1370	WTMV 1500	WDAF 610	KFRU 630	WHBY 1200
WBAF 800	WAAW 660	WMBH 1420	WMBD 1440	1:15 p.m.	WOC 1370	KFVS 1210	WJTL 1370
WFAA 800	KASA 1210 ²	WROK 1410	WOC 1370	KPAC 1260	5:00 p.m.	WLBC 1310	WMT 600
KASA 1210	KGKB 1500	WTAX 1210	WSX 1210	KTBS 1450	KFEQ 680	WFN 1210	WNRB 1430
KMBC 950	KLPM 1240	10:05 a.m.	WTMV 1500	KWTO 560 ²	KFIZ 1420	WGL 1370	WNOX 560
WHO 1000	KSD 550	10:15 a.m.	WTRC 1310	1:30 p.m.	KFJZ 1370	7:30 p.m.	WSFA 1410
6:45 a.m.	KSTP 1460	WTAX 1210	NEWZ 1150	WLBK 1310	KFKR 1310	KASA 1210	WTGN 1250
KWBG 1420	KWBG 1420	CJGX 630	KGGF 1010	WMBH 1420	KOMA1480 ⁵	KDRL 1210	9:15 p.m.
7:00 a.m.	WCCO 810	WBOW 1310	WBRC 930	1:45 p.m.	WHBU 1210	KFOR 1210	KFPW 1210
KABR 1420	WGPC 1420	WDOD 1280	WCLN 1310	KFDY 780	WHO 1000 ⁹	KWKV 1370	KSD 550
KFJZ 1370	WJBO 1420	WJMS 1420	WFBN 1230	KGES 630	WIIE 1400	WDOD 1280	WFBM 1230
KRNT 1320	WSFA 1410	10:25 a.m.	WHBY 1200	WHEF 1500	WJRD 1130	WHO 1000	9:30 p.m.
WCCO 810	WTAQ 1330	WTEN 1250	WKBB 1500	2:00 p.m.	WJTL 1370	WNRB 1430	KRNT 1320 ²
WIBW 580	8:45 a.m.	10:30 a.m.	WROK 1410	WHBU 1210	WMBD 1440	WSG 1310	KTBS 1450 ²
WMT 600	KNOW 1500	KFOR 1210	WOWO 1160	WJJD 1130	WOI 640	6:45 p.m.	WDOD 1280
WTAD 900	WSGN 1310	KGDE 1200	12:20 p.m.	WJTL 1370	WSM 650	KRGV 1260	WGBF 630
WTGN 1250	9:00 a.m.	WBEO 1310	KFNF 890	WTMV 1500	WTGN 1250	WKBB 1380	WOBW 580
KSO 1430	Red & Blue ²	WIND 560 ²	WRTN 1370	2:15 p.m.	WTMV 1500	WSFA 1410	WOAI 1190 ²
7:05 a.m.	CBS	10:40 a.m.	WTAW 1120	KWBG 1420	5:15 p.m.	WCCO 810	6:55 p.m.
WSGN 1310	KGCA 1270	KFEQ 680	12:25 p.m.	WBAF 800	WCCO 810	WMC 780	KGDE 1200
7:15 a.m.	WDAF 610	10:45 a.m.	KDLR 1210	WFAA 800	5:20 p.m.	7:00 p.m.	10:00 p.m.
KGAC 1010	WGST 890	WKEL 1500	12:30 p.m.	WKEU 1500	KGGF 1010	KRGV 1260	KPRC 920
KPPC 1260	WHBU 1210	11:00 a.m.	KFEQ 680	WNAD1010 ⁵	5:30 p.m.	KWBG 1420	KVOO 1140 ²
WHO 1000	WHBY 1200	KFJZ 1370	KFJM 1370	WCCO 810	CBS	WAVE 940	WDAY 940
WKEU 1500	WIND 560	KFNF 890	KWTO 560	2:25 p.m.	Red & Blue	WHOW 1310	WENR 870 ⁵
7:20 a.m.	WKEU 1500	KSTP 1460	WAGF 1370	WTGN 1250	KASA 1210 ²	WJTL 1370	WGST 890
WIBW 860	WNOX 560	WHBU 1210	WIBA 1280	2:30 p.m.	KTAB 770	WKBB 1500	WHBU 1210
WOI 640	WOWO 1160	WSGN 1310	WJAG 1060	KSTP 1460	KFJB 1200	WMBH 1420	WIBA 1280
7:30 a.m.	WTMV 1500	WTMV 1500	WKBIH380 ²	KVOS 1210	KPAC 1260	WTMV 1500	WIRE 1400
KPRO 1370	WIND 560 ²	11:15 a.m.	WKEU 1500	WDAY 940	WOAI 1190	7:15 p.m.	WMBD 1440
KGBZ 930	9:05 a.m.	WDAF 610	WNRB 1430	WIND 560	5:35 p.m.	KFNF 890	WNRB 1430
KMBC 950	WILL 890	11:25 a.m.	12:35 p.m.	3:00 p.m.	KVOO 1140 ²	WJMS 1420	WOAI 1190
KSTP 1460	WRTN 1370	WDAY 940	WJMS 1420	KARK 890	WENR 870	7:30 p.m.	WTMV 1500
KWTO 560	9:15 a.m.	11:30 a.m.	12:45 p.m.	KFJB 1200	5:40 p.m.	WIND 560	XENT 910
WIBA 1280	KARK 890	KFJV 1210	KBTM 1200	WHBU 1210	CKY 960	7:45 p.m.	XEWZ 1150
WDSU 1250	KFEQ 680	KRNT 1320	KFIZ 1420	WISN 1120	5:45 p.m.	WRTN 1370	10:05 p.m.
XFBY 940	KPAC 1260	KWBG 1420	KFRO 1370	WLBC 1310	KFAY 1310	WTAD 900	WCCO 810
7:40 a.m.	KSTP 1460	WMT 600	KFYO 1310	WSGN 1310	WDAY 940	8:00 p.m.	10:10 p.m.
KFEQ 680	WLRC 1310	KSO 1430	KELP 1240	WTMV 1500	WDSU 1250	KARK 890	Blue Net
7:45 a.m.	WMBD 1440	11:45 a.m.	KRGV 1260	3:05 p.m.	WFBM 1230	KFIZ 1420	10:15 p.m.
KRGV 1260	9:30 a.m.	KABR 1420	KSTP 1460	KENF 890	WKEU 1500	KVOO 1140 ²	CRS ²
KVOO 1140	KFIZ 1420	KASA 1210	3:15 p.m.	3:15 p.m.	WNOX 560	WHBU 1210	KLBM 1240
WNRB 1430	KFYO 1310	KGKB 1500	WGST 890	3:30 p.m.	WTRC 1310	WTMV 1500	KSTP 1460
WQAI 1190	KTBS 1450	KWTO 1140	WCOO 810	KSTP 1460	5:50 p.m.	XENT 910 ²	WGBF 630 ⁹
7:50 a.m.	KTWO 560	WBAW 890	WHO 1000	KSTP 1460	KSTP 1460	8:15 p.m.	WTCN 1000
KABR 1420	WJBC 1200	WCCO 810	WBHH 1380	WGHR 630 ²	KFJM 1370	KGHB 1230	WTGN 1250
KFNF 890	WJJD 1130	WIND 560	WLCB 1310	WHO 1000	5:55 p.m.	8:30 p.m.	10:30 p.m.
8:00 a.m.	WKBS 1500	WNSD 560	WLEN 1210	3:45 p.m.	WMT 600	KEJZ 1370	Red Net ²
KARK 890	WMT 600	11:55 a.m.	WNOX 560	KABR 1420	6:00 p.m.	KFOR 1210	WHO 1000 ⁹
KFAB 770	WTHC 1310	KIAB 770	WSFA 1410	WKEU 1500	KARK 890	WIND 560 ²	WRTN 1370
KFYO 1310	CBS ²	WOAI 1190	WTGN 1250	WTAX 1210	KFEQ 680	WEQB 1210	10:45 p.m.
KGFW 1310	9:45 a.m.	Noon	1:00 p.m.	4:00 p.m.	KYOL 310	8:45 p.m.	10:45 p.m.
WDAY 940	KMBC 950	CJGX 630	CKY 960	KBTM 1200	KWTO 560 ²	KFNF 890	11:00 p.m.
WFBM 1230	WJBO 1420 ²	KARK 890	KCRB 1360	WHBU 1210	KWTL 1200	KGKB 1500	KMBC 950
WJJD 1130	KRBL 1210	KGES 630	KFOR 1210	WTMV 1500	WJBO 1420	WSGN 1310	WHBU 1210
WJTL 1370	10:00 a.m.	KGNE 1430	KGRL 1370	4:15 p.m.	WTAQ 1320	9:00 p.m.	WJTL 1370
WKBB 1500	KFVS 1210	KMBC 950	KRNT 1320	KWTO 560	WTAX 1210	KFYO 1310	WTMV 1500
WKBB 1500	KLGN 1290	KVOL 1310	WCBS 1420	WHB 860	WTMV 1500	KGKL 1370	XENT 910
WMBH 1420	KWOS 1210	WGPC 1420	WDOD 1280	WJAG 1060	6:10 p.m.	KRNC 950	Midn't.
WMPN 1210	WCCO 810	WHB 860	WHBU 1210	4:30 p.m.	KLPM 1240	KRNT 1320	KSTP 1460

MOUNTAIN STANDARD TIME

6:00 a.m.	CIWC 1010	CIAB 1200	CKCK 1010	KICA 1370	KGVO 1260	12:30 p.m.	2:30 p.m.
KPKA 880	KFEL 920	CKBI 1210	10:00 a.m.	KLZ 560	KGHR 1340	KPKA 880	KDYL 1290
7:45 a.m.	KVOR 1270	9:15 a.m.	KOY 1390	Noon	KIUP 1370	EGEZ 1310	KSUN 1200
KGNY 1500	8:15 a.m.	KDYL 1290	10:30 a.m.	KPEL 920	1:00 p.m.	3:00 p.m.	3:45 p.m.
KLZ 560	CFRN 1260	KICA 1370	KDFN 1440	KTAR 620	12:20 p.m.	CFCN 1030	CHCK 1010
8:00 a.m.	KGVO 1260	KIUL 1210	11:00 a.m.	KOY 1390	KOY 1390	KVOR 1270	3:30 p.m.
Red & Blue ²	8:30 a.m.	KIUP 1370	11:45 a.m.	KFBZ 1280	12:25 p.m.	2:00 p.m.	KIUL 1210
CBS Net ²	CBS Net ²	9:30 a.m.	11:45 a.m.	KGHL 780	KDFN 1440	KICA 1370	KSL 1130

3:45 p.m. KLZ 560	Red & Blue CBS Net KIDW 1420	6:00 p.m. KFKA 880 KOY 1390	6:30 p.m. KGCN 1310 ⁹ 6:45 p.m. KDFN 1440	CHWC 1010 CJCJ 690 KVOR 1270 XEPV 1210	8:30 p.m. KDFN 1440 8:45 p.m. KXAF 900	KVOR 1270 9:15 p.m. Blue Net² CBS Net ²	CFCN 1030 KDYL 1290 KQHL 780 KOY 1390
4:00 p.m. CHWC 1010 KFEL 920 KICA 1370 4:30 p.m.	KVOR 1270 5:30 p.m. KDFN 1440	CHAB 1200 KGEZ 1310 KGVO 1260	7:00 p.m. KFEL 920 8:00 p.m.	8:15 p.m. KICA 1370 KLZ 560	9:00 p.m. CJRM 540 KTSM 1310	9:30 p.m. Red Net² 10:00 p.m.	11:00 p.m. KTAR 620

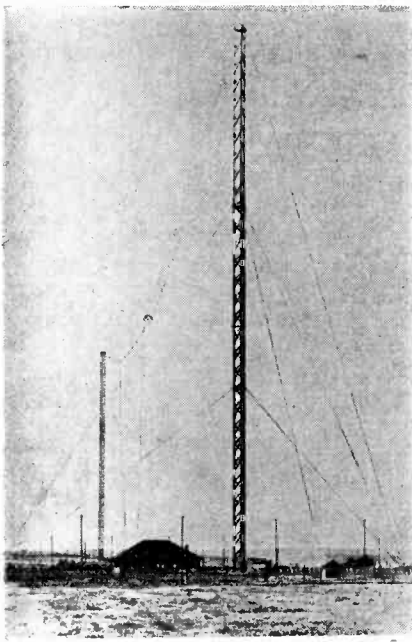
PACIFIC STANDARD TIME

6:00 a.m. KJBS 1070 KRSC 1120	8:30 a.m. CHVC 1100 KGFJ 1200 KXRO 1310	10:15 a.m. KELW 780 10:20 a.m. KLV 880 11:00 a.m. KRSC 1120 11:15 a.m. KGIN 940 11:30 a.m. CJAT 910 KRKD 1200 11:45 a.m. KGFH 1200	KOL 1270 KREG 1500 KVI 570 KVOS 1200 WGXAI 1550 12:20 p.m. KIT 1310 12:30 p.m. KFPY 890 KLEM 1210 KOOS 1390 KPQ 1500 KRLC 1420 KTRB 740 KXRO 1310 12:45 p.m. KJBS 1070 KQW 1010 KIFXM 1210 1:00 p.m. KGFJ 1200 KGIN 940 KRSC 1120 KJBS 1070 ² 1:30 p.m. KMPC 710 1:45 p.m. CHWK 780 KRKD 1120 2:00 p.m.	KRSC 1120 KGFJ 1200 ² 2:15 p.m. KGD M 1100 3:00 p.m. KJBS 1070 KQW 1010 KRSC 1120 3:15 p.m. KGFJ 1200 3:30 p.m. CBS Net Red & Blue 3:45 p.m. KFPY 890 KGIN 940 4:00 p.m. KFRC 610 KRSC 1120 4:15 p.m. KGIN 940 KWJ 1040 4:45 p.m. KGFJ 1200 ² 5:00 p.m. KFJR 1300 KRSC 1120 KGD M 1100	KELW 780 KMPC 710 5:45 p.m. KOOS 1390a KRKD 1120 KRRC 1420 CHWK 780 6:00 p.m. KJBS 1070a KROW 930 KFOX 1250 KQW 1010 ² KRSC 1120 KFXM 1210 6:15 p.m. KECA 1430 XEMO 860 6:30 p.m. CHWK 780 CKWX 1010 KFXM 1210a KJR 970 KPQ 1500 KQW 1010 KREG 1500 KJ 1370 WGXAI 1550	7:00 p.m. KGFJ 1200 WGXAI 1550 9:30 p.m. KLV 880 KJBS 1070 KRRC 1420 KIT 1310 KOL 1270 KVOS 1200 KYA 1230 KVI 570a 10:00 p.m. KFI 640 KFOX 1250 KFRC 610 KFB 1330 KGB 900 KOMO 920 10:30 p.m. KRCV 1100 10:45 p.m. KGFJ 1200 KXA 760 11:00 p.m. KFPY 890 11:45 p.m. KROW 930
7:15 a.m. KERN 1370 KFBK 1490 KMJ 580 7:30 a.m. CBS Net ² 7:45 a.m. KFPY 890 KRKD 1120 8:00 a.m. KIT 1310 KRSC 1120 KUJ 1370 8:15 a.m. KROW 930	9:00 a.m. KFRC 610 KFXM 1210 KOOS 1390 KRSC 1120 KWG 1200 9:15 a.m. KOL 1270 KVOS 1200 KGD M 1100 9:30 a.m. KJR 970 KMPC 710 9:45 a.m. KFI 640 KFOX 1250 9:51 a.m. KFPY 1500 10:00 a.m. KJBS 1070 KQW 1010 KUJ 1370	Neon KJFR 1300 KFRC 610 KJBS 1070 KQW 1010 KROW 930 KRSC 1120 KJ 1370 12:05 p.m. KOAC 550 12:10 p.m. CHWK 780 CKWX 1010 12:15 p.m. KECA 1430 KHSL 950	2:00 p.m. KXRO 1310 2:45 p.m. KQW 1010 KIFXM 1210 1:00 p.m. KGFJ 1200 KGIN 940 KRSC 1120 KJBS 1070 ² 1:30 p.m. KMPC 710 1:45 p.m. CHWK 780 KRKD 1120 2:00 p.m.	5:30 p.m. WGXAI 1550	8:15 p.m. CBS Net ² 8:30 p.m. Red Net ² KCKD 1010 9:00 p.m. KECA 1430 KFSO 600 KLEM 1210 KROW 930 KRSC 1120	9:15 p.m. KROW 930

THE JANUARY DX CALENDAR

Special programs arranged by the stations for the benefit of distant listeners. The list of frequency check programs in detail may be found in the December issue. All times are in Eastern Standard in order that the programs may be arranged chronologically.

Sunday Mornings		2:30-3:30	KFRO 1370	Longview, Tex.	CDXR
January 5		2:31-2:39	CKWC 1370	Moncton, N.B.	
12:01-13:30	WAP1 1140	3:00-5:00	WHAZ 1300	Troy, N.Y.	
1:00-2:00	CMKC 1250		CJAT 910	Trail, B. C.	NNRC
2:00-3:00	CJLS 1310	3:01-3:09	CHNC 1410	New Carlisle, P.Q.	
2:00-4:00	CHAB 1200	4:00-5:00	WGBF 630	Evansville, Ind.	CDXR
2:15-2:45	WTBO 800	January 26			
3:00-5:00	CJOC 1230	12:01-3:00	WPAR 1420	Parkersburg, W.Va.	CDXR
3:00-6:00	FCC		WTMV 1500	E. St. Louis, Ill.	MCDXE
6:00-7:00	KMBC 950	2:00-4:00	WJBO 1420	Baton Rouge, La.	
January 12		3:00-4:00	KWSC 1220	Pullman, Wash.	CDXR
2:00-3:00	KFRO 1370	January 5, 12, 19, 26			
2:00-4:00	WJBO 1420	1:00-3:00	CMJA 1010	Camaguey, Cuba	
2:30-4:30	KID 1320	1:00-5:00	KIUP 1370	Ourango, Colo.	
2:40-3:00	CKCW 1370	2:00-4:00	XEWZ 1150	Mexico City, D.F.	CDXR
3:00-5:00	WEU 830	3:00-4:00	CKWX 1010	Vancouver, B.C.	
3:20-4:00	CJIC 1500	3:00-4:30	CKOV 630	Kelowna, B.C.	
3:40-4:00	CKX 1120	Monday Mornings			
4:00-5:00	WOL 1310	January 6			
4:00-6:00	WJAS 1290	2:00-8:30	FCC	Frequency Checks	
4:30-6:00	WHJB 620	2:45-3:00	KUJ 1370	Walla Walla, Wash.	
	KQV 1380	3:00-4:00	NEFI 1440	Chihuahua, Chi.	CDXR
4:40-5:00	CKFC 1410	January 13			
January 19		3:30-3:30	KID 1320	Idaho Falls, Ida.	
1:00-2:00	CMKC 1250	3:00-6:00	CMOX 1320	Havana, Cuba	
1:01-1:09	CRCS 950	January 20			
1:11-1:19	CJCB 1240	1:01-1:09	CRCS 950	Chicoutimi, P.Q.	
1:21-1:29	CHNS 930	1:11-1:19	CJCB 1240	Sydney, N.S.	
1:31-1:39	CHRC 580	1:21-1:29	CHNS 930	Halifax, N.S.	
1:41-1:49	CFCY 630	1:31-1:39	CHRC 580	Quebec, P.Q.	
1:51-1:59	CJLS 1310	1:51-1:59	CJLS 1310	Yarmouth, N.S.	
2:11-2:19	CHSJ 1120	2:01-2:09	CFNB 550	Fredricton, N.B.	
		2:11-2:19	CHSJ 1120	St. John, N. B.	



Aerials of s.w. station VK3ME situated at the AWA radio center, Braybrook, Victoria.

3:00-4:00	XEFI	1440	Chihuahua, Chi.	CDXR
3:01-3:09	CHNC	1410	New Carlisle, P.Q.	
3:15-3:30	KGGM	1230	Albuquerque, N.M.	
January 6, 13, 20, 27				
12:01-2:00	CMHW	810	Cienfuegos, Cuba	
1:00-2:00	WGES	1360	Chicago, Ill.	

Tuesday Mornings

January 7				
2:00-7:20	FCC	Frequency Checks		
3:00-4:00	WNEL	1290	San Juan, P.R.	
January 14				
3:30-5:00	CKBI	1210	Prince Albert, Sask.	NNRC
January 21				
1:00-4:00	WDAY	940	Fargo, N.D.	
1:31-1:39	CJKL	1310	Kirkland Lake, Ont.	
2:00-3:30	KIUL	1210	Garden City, Kans.	
2:01-2:09	CFNB	580	Fredricton, N.B.	
January 28				
4:00-5:00	WKAQ	1240	San Juan, P.R.	NNRC
January 7, 14, 21, 28				
3:00-4:00	KFXM	1210	San Bernardino, Cal.	
5:00-5:15	WBNS	1430	Columbus, Ohio	

Wednesday Mornings

January 1				
12:01-6:00	XEPN	590	Piedras Negras, Coah.	CDXR
January 8				
1:00-1:30	WEBC	1290	Superior, Wisc.	
1:30-2:30	WSUI	880	Iowa City, Ia.	
3:00-4:00	CHAB	1200	Moose Jaw, Sask.	CDXR
3:00-5:10	WIRE	1400	Indianapolis, Ind	CDXR
January 15				
12:01-1:00	XEFW	1310	Tampico, Tamps.	CDXR
2:00-6:00	FCC	Frequency Checks		
January 15				
2:00-2:30	KWTO	560	Springfield, Mo.	
2:00-4:00	CHAB	1200	Moose Jaw, S.	MCDXE

2:30-3:00	WGMI	1310	Ashland, Ky.	
	WBHQ	1370	Memphis, Tenn.	NNRC
3:00-6:00	WOPI	1500	Bristol, Tenn.	
3:30-4:30	KIDW	1420	Lamar, Colo.	
4:00-4:30	KFNF	890	Shenandoah, Ia.	
4:00-5:00	WIL	1200	St. Louis, Mo.	
January 22				
3:00-6:00	WOPI	1500	Bristol, Tenn.	CDXR
January 29				
2:00-3:00	WOC	1370	Davenport, Ia.	NNRC
3:00-4:00	WNEL	1290	San Juan, P.R.	
4:00-4:30	KGNO	1340	Dodge City, K.	MCDXE
4:15-5:45	KGGF	1010	Coffeyville, K.	MCDXE
5:30-6:00	KFBI	1050	Ablene, Kans.	MCDXE
January 1, 8, 15, 22, 29				
1:30-2:00	WKBB	1500	E. Dubuque, Ill.	
4:30-5:00	WCAL	1250	Northfield, Minn.	

Thursday Mornings

January 2				
2:00-6:20	FCC	Frequency Checks		
January 9				
2:00-3:00	KIUN	1420	Pecos, Tex.	
	WRUF	830	Gainesville, Fla.	
2:15-2:30	WLLH	1370	Lowell, Mass.	
3:00-4:00	CE90	1380	Santiago, Chile	NRC
January 30				
5:10-6:10	WFLA	620	Clearwater, Fla.	
5:15-5:45	WALA	1380	Mobile, Ala.	
5:30-6:00	WRAW	1310	Reading, Pa.	CDXR
January 2, 9, 16, 23, 30				
12:30-1:15	KLRA	1390	Little Rock, Ark.	MCDXE

Friday Mornings

January 3				
2:00-3:00	KDYL	1290	Salt Lake City, U.	CDXR
3:00-6:30	FCC	Frequency Checks		
January 10				
2:15-2:45	KPOF	880	Denver, Colo.	
4:30-6:00	CKNX	1200	Wingham, Ont.	
6:00-6:30	KFBI	1050	Ablene, Kans.	
January 17				
2:00-3:00	WIXBS	1530	Waterbury, Conn.	
January 31				
1:00-1:15	KPRC	920	Houston, Texas	
	WLLH	1370	Lowell, Mass.	
2:15-2:30	WCSH	940	Portland, Me.	
January 3, 10, 17, 24, 31				
12:01-2:00	CFCN	1030	Calgary, Alta.	

Saturday Mornings

January 4				
2:10-6:30	FCC	Frequency Checks		
3:30-4:00	KSAC	580	Manhattan, Kans.	
4:30-5:30	CKNX	1200	Wingham, Ont.	
January 18				
12:01-5:00	KGVO	1260	Missoula, Mont.	
1:00-2:00	WNBI	1080	Chicago, Ill.	NRC
1:41-1:49	CFCY	630	Charlottetown, P.E.I.	
3:00-4:00	CHML	1010	Hamilton, Ont.	CDXR
4:00-5:00	KMO	1330	Tacoma, Wash.	NNRC
January 25				
2:30-4:00	KADA	1200	Ada, Okla.	
3:00-6:00	KWSC	1220	Pullman, Wash.	
January 4, 11, 18, 25				
12:30-3:00	KLRA	1390	Little Rock, Ark.	NNRC
5:00-6:00	WMFO	1370	Decatur, Ala.	NNRC
7:00-8:00	WSBC	1210	Chicago, Ill.	NNRC

Harry O. Jones and Bill Ellis will present a weekly DX feature program over KFAC, 1300 kcs., each Thursday night from 9:15 to 9:30 PST. The first program will be on December 12th. As this will be 12:15 to 12:30 EST, many in the Eastern States should hear this program. No doubt Bill will see that reports are promptly verified.

That NEW SET of Yours

• • • *By the* SHORT WAVE EDITOR

ALARGE number of our readers are rich and don't know it. Hundreds, perhaps even thousands of our readers have received new radios for Christmas and the chances are that nine out of ten of these new sets are all wave sets. We know that lots of these people are wondering what the shortwave bands are good for; despite millions of words written each year in various periodicals about shortwaves, there still are too many persons who think shortwaves are amateurs, police and airways. The uninitiated seem to think that highly complicated commercial receiving equipment is necessary to receive shortwave programs of real entertainment value.

Most of the all wave receivers on the market now, regardless of price, will provide reliable and interesting reception of overseas broadcasting stations on the shortwaves. It must be borne in mind, however, that very long distance reception, although often times approaching perfection, is accomplished only by very careful tuning, and allowances must be made for the fact that these signals travel thousands of miles before reaching our aerials.

If readers will refer to the charts which have been printed in RADEX during the past several months, they will see how the various frequencies in the radio spectrum are allocated. This chart shows that on the shortwaves, broadcasting stations are not spread out from one end of the dial to the other, but are concentrated into several narrowly defined bands; the first thing for a person to do with any new receiver is to locate these bands on the dials. Fortunately, most sets indicate in some manner, such as a heavy line or a notation, the

location of the 16, 19, 25, 30 and 49 meter bands. Beginners should confine their tuning to the last two of these bands at first, and locate a few reliable stations.

Advice to Beginners

Anyone tuning shortwaves for the first time should not be discouraged if no foreign stations are heard; there are days when s.w. reception is poor, just as on the broadcast band. Happily, there are more good days than bad ones and on these good days stations roll in from every corner of the world.

"Suppose the stations do come in from every corner of the globe; can we understand and appreciate their programs, once they are tuned in?" someone may ask.

Most assuredly they can be appreciated and nearly always understood. Great strides have been made in the transmission of shortwaves, and many high-powered stations exist, such as those at Daventry, Zeesen, Madrid, Rome, Schenectady, Pittsburgh, Caracas, etc. Programs originating in London, Berlin, Rome or Paris can be heard with volume and clarity almost equal to that of a local station, and very nearly as consistently. These broadcasters are not satisfied with the remarkable progress they have made, but are constantly improving their equipment; within the next twelve months it is expected that at least four of the large European broadcasters will increase their power to 100,000 watts or more.

Programs can be understood because most of the organizations using the high frequencies realize they have a world-wide audience and have announcements made in several languages; the British and Australian stations are the only important

stations which do not have multi-lingual announcements but as their language is English we have no trouble with them.

How to Tune

A few years ago magazines concerning shortwaves were in the habit of printing quite regularly, instructions for tuning s.w. sets. Such articles at that time were vitally necessary because it was no easy matter to pick up overseas stations and the tuning in of such stations required patience and practice. Those days are about gone, however, and tuning instructions become more superfluous each year.

On s.w. one is required to tune s-l-o-w-l-y; broadcasting stations are confined in very narrow bands and are of necessity bunched together. To find them the dials must be turned so slowly that the movement of the hand or indicator across the face of the dial is hardly perceptible. Every little "swish" or whistle must be suspected as these little sounds usually indicate the presence of a station. When such sounds are heard the tuner should "stand by" for a few moments as the station may be on the low end of a fade. Nearly all such sounds can be brought up to understandable volume if accurately tuned in; even the tone control is sometimes of help in such cases.

The volume control of any shortwave set should rarely be set for maximum volume while searching for stations, although it should be advanced enough that static is heard. If the set is equipped with "static eliminators" or "cross talk suppressors," the device should be set for maximum static. These devices work fine on BC sets, but completely cut out average strength shortwave signals.

If there is a tone control it seems that better success can be had if it is set for reproduction of "high notes," as it is easier to detect the presence of a station with the control in this position. After a station has

been found the tone control can be altered at will.

The new transmitters and modern receivers are so efficient that anyone with average patience and a good aerial should, and can, have foreign s.w. reception daily. Of course there are hard-to-get s.w. stations, just as on the BC band, and reception of these stations comes only after one is thoroughly familiar with his receiver.

About the Programs

"Are the programs one hears worth the extra trouble required in picking them up?" is another often-repeated question.

We can safely say that anyone, regardless of his tastes, can find something of interest as every kind of a transmission conceivable is heard, from symphonies to hams. It would be a very dull person indeed who could not find something of interest among the police, the amateurs, airplanes, ships, sizzling news direct from the country of its origin. Strauss music from Berlin, Verdi from Rome, Elgar from London, tangos from the Argentine or samisen music from Japan.

In the first band below the broadcast band are the police alarm stations, and the amateur stations, as well as a large number of point-to-point stations in Alaska. If anyone is interested in DX he should try the police bands. There are some

(Continued on page 47)



Radio corner of F. D. Gilliland, 3621 Sutherland Road, Shaker Heights, Ohio.

NIGHT LIFE of the Radexers

• • • By CARLETON LORD

IN virtually every field of human endeavor, we are permitted to experience the pleasant sensation of having reached or surpassed some previously-established goal or record. Whether it be the sprinter who tries for a "nine-second century," the mountain-climber who attempts to scale the heights of Mt. Everest or the commuter who hasn't missed the 8:15 in ten years, there is a reward of personal satisfaction for a job well done.

This is particularly true of DXing, where there are so many goals for the listener. The neophyte may look forward to the day when he has verified a station in every state and province; the more advanced DXer may be trying for his first trans-oceanic station; while the veteran may be seeking his twentieth Aussie or his thousandth verification.

Whatever the goal, no matter how modest, its achievement is always ample reward for the hours spent at the dials.

"When I tuned in CMOX on November 13th," remarks Raymond C. Corbett, 619 Twelfth St., San Francisco, Cal., "it was quite an occasion for me. Not only was it a good catch, but it was my 500th station on the broadcast band. For five years I had been trying for this goal and achieved it with the use of three receivers—an Amrad, a Philco, and the new Atwater Kent Model 337. CMOX was the 116th station more than 2000 miles distant and my third Cuban."

"My log stands at 493, but I am trying for 500 before November 26th, when my Scott will be a year old," recapitulates Joe Tamele, 13201 Coath Ave., Cleveland, Ohio. "I really have 523, but lost 30. I have noticed that some of the stations scheduled for the frequency checks

don't go on at the assigned time. Have been trying for WCAP and WNYC, but never seem to run into them."

During the November checks on the 7th, we tried for WMFN, KVOL and WMFD at the scheduled times, but didn't seem to make connections. Can our readers give us any information on these and other stations which are not operating according to the FCC assignments?

More About Club Co-Operation

"Regarding DX programs and the like," protests Raymond S. Swenson, 2325 Tenth St., Rockford, Ill., "I think it is wrong to have the larger clubs take the majority of the time per month as you suggested in the October issue. The best way to solve the problem is to have CPC picked from every organization in the inter-club plan. Each CPC man should then mention all of the clubs represented when writing to stations. This would lessen the work of the committeemen and definitely prevent clashes. Also, if one CPC man had but ten or fifteen stations to work on, he would do a better job and the stations would be glad to cooperate under such conditions. While this suggestion is, of course, open for arguments pro and con, I believe that it is the best way out and feel that it would be one of the greatest steps taken in the dedication field."

"As a member of four DX clubs," comments Harry Reaff, Loon Lake, Sask., "I was much interested in the discussion on the inter-club co-operation plan in the October RADEX. Also, I noticed the letter in the November issue in regard to the merging of all clubs.

"It is pretty generally recognized that all possible co-operation between the various clubs is becoming

most essential, not only to further the interests of the listeners, but to foster the good-will and sympathy of the stations. The Inter-Club Co-Operation Plan was a big step in this direction, and Elwin Bullard cannot be commended too highly for his untiring efforts in this regard.

"However, the plan is still open to improvement, chiefly because it does not allow for the opinions and actions of the stations concerned. As you pointed out, what will be the reaction of the broadcasters whose transmissions are ruled out by the cancellation clause? In my opinion, the answer is obvious—at best, a decided distaste for any more courtesy DX programs. Further, how about the CPC man who has expended time and effort arranging a special for his club? It will certainly be discouraging to him to find that his work has gone for naught and his program must be cancelled just because some other club had a prior claim.

"Your suggestion that CPCmen of each club get together and assign the time for each channel among themselves gives rise to an idea whereby the various clubs in the plan would form a Co-operative Courtesy Programs Committee. This would enable all specials to be dedicated to all of the participating clubs, would prevent clashes, and enable every club to retain its identity without the necessity of merging."

The plan of a common CPC has undoubtedly received the attention of club officials in the past. While it is true that it would eliminate clashing programs, it seems to us that it would tend to destroy the individuality of each club. Most clubs point with pride to the achievements of their CPC members, and the elimination of this committee might easily result in the loss of interest in the club itself by its members.

We are, of course, not attempting to pass judgment on any suggestion for the betterment of DXing. This

is, after all, the prerogative of each individual listener and club member. We feel that the task of arranging non-conflicting courtesy programs is of the greatest importance to all DXers and we hope that our readers will feel free to express their opinions on the matter, at any time.

How To Tune The Japs

"For those who want to hear Japan and points East," informs Warren E. Winkley, Hughson, Cal., "I can give the following old and tried rules. Set the dial at 770, 830, 850, 870, 900, 1085 or 1175 any time between 5:00 and 6:00 AM, EST, and wait patiently. The Japs which come in best are heard on those frequencies. Remember that the JO's fade terribly, so don't give up if no signal is heard at first. XGOA on 660 comes through about the same time. They also fade quite a bit, but are heard here regularly in the winter with R9 volume. Of the Zedders, 1YA and 3YA are the best."

"A new Mexican, XERA, on 840 keys, has just been heard," advises William Bundlie, 614 No. Sixth St., Grand Forks, N. D. "It is the companion of XEAW and is also run by Doctor Brinkley. Could this be a new call and frequency of the old XER at Villa Acuna?"

"Mark down two more Japanese stations," announces Miguel A. Rivera, P. O. Box 480, Hong Kong. "The first is JOHG, Kagoshima, 1050 keys, 500 watts; and the second is JOIG, Toyama, 1060 keys, 500 watts. Reports to the former should be sent to the chief engineer, G. Tokushima, Kagoshima Broadcasting Station. A new station in Lima, Peru, is OAX41, Radio Internacional. They transmit on 1100 keys daily from 8:00 to 10:00 PM, EST. Their address is Estacion Radiofusora Internacional, Pasaje Olaya, Lima, Peru. I understand that they are going to relay their programs via short waves and may be doing so al-

ready. OAX4A has changed its address to Paseo Colon and reports should be sent to the station's director, Gulillermo Lazarte. Besides transmitting on their regular frequency of 750 keys, OAX4A occasionally uses 810 for an evening program."

"For the past week I have been hearing WIS testing on 560 kcys," submits Thomas Black, 143 Carroll St., Pittston, Pa. "On November 20th, CJKL was testing on 1310, and recently I have heard a W3XDD transmitting on 1340 keys. Has anyone acquired any information on this station?" Would this be the test call of the Bell Laboratories at Whippany, N. J.?

"My first new station this year was WPAR," recalls Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa., "and my log now stands at 705, with 150 verifications. Recently I logged 1YA for the 16th time since last February. This summer I put up a new lead-in and found that it took away 25 per cent of the noise."

Station Policies

"Checking over some forty-three back copies of RADEX," observes Clyde E. Lowe, 730 K Street, Merced, Cal., "I find that the big howl on not getting a reply from a station is just as loud today as it was four or five years ago. However, I have found that by giving the broadcasters information of value to them—fading, tone quality, volume, static, weather conditions—I can get a pretty fair percentage of replies."

"For years I have been reading what the stations think of reports and what form they should be in," writes Harold H. Mendler, 3154 Coney Island Ave., Brooklyn, N. Y. "Now I think it is time to let the stations know the DXer's side of the question."

"Some broadcasters do not verify correct reports and we realize that they have definite reasons for this policy. No station should verify a

report which is of no value to them. On the other hand, a report which is helpful to them or to their engineers should be confirmed. When a station absolutely refuses to verify, they might turn the job over to some local DXer, who, I am sure, would be more than willing to assume the responsibility.

"To the station which will verify any report, correct or otherwise, we have the greatest contempt. Listeners are only human and usually welcome a criticism. For example, a reply from WMFF said: 'You got two numbers anyway. Report not so



Verification from Leipzig received by Don Reynolds, 9 Hudson View Terrace, Newburgh, N. Y.

good. Better luck next time.' WCAP refused to verify an incorrect report. These stations do a lot to keep the DX game clean. We do not feel hurt upon the receipt of such answers. On the contrary, we try for them harder and have a greater satisfaction when they do verify."

"In my haste to get out a lot of reports recently," relates Alfred Razzondo, R.F.D. 1, Fayette City, Pa., "I got a letter to KWJJ in an envelope to KMO, and vice versa. Shortly afterward, I got a letter from the Studio Director of KMO, pointing out my error and ending up: 'Trusting you will get this verification ironed out and that we shall receive a report in the very near future which we can verify as being KMO.'

Subsequently I sent two more reports and got my veries. I did think it was rather decent of the station to write as they did."

By Way of Criticism

"We don't like the emphasis on logs this season," states M. Whelan, 2144 S. Downing St., Denver, Colo., "and my wife misses the personals and gossip about the radio stars. I use the September issue for my season's work and then tear out the articles of future issues and pass on the station lists to less fortunate friends. Instead of repeating the logs entirely, why don't you print just the changes for clipping and pasting to the September logs?"

Judging from the number of corrections listed in each issue, we would hate to think of the appearance of the September log after pasting in the changes occurring during eight or nine months. Then, too, what would happen to the "less fortunate friends" if there were no logs to pass on to them? The contents of the reports from readers is, of course, up to those who write in to us. We agree that tuning tips and information of that nature are more interesting than mere resumes of logs, but we don't write the letters and can only use what we receive.

"Will you ask your readers to check up on the station broadcasting between 715 and 720 keys?" inquiries Harold Wagner, 933 East Seventh St., Erie, Pa. "I have been hearing this station the past two evenings from 8:00 PM on. As near as I can determine, the announcer speaks in Spanish."

"Add another station to the list of those who will not verify," announces Joel H. Armontrout, 602 E. Magnolia St., Fitzgerald, Ga. "This is WKEU and I have a letter from the station management to that effect. Between 6:00 and 8:00 PM, I have been able to identify LR10, PRA3, LR6, LR3, LR4, LS2, LR2, LS1 and YV1RC. During the early mornings, I have heard PRC2 and

XGOA. Many TP's have been heard on their new frequencies."

"Of primary importance in the way of DX is the trade-in of my old 16X Philco for a new Model 116X," asserts George W. Acker, 267 N. Lyman St., Wadsworth, Ohio. "You can imagine how pleased I was to find that it has three times as much pep as the older model. I strung up a Philco aerial two weeks before I traded, to see whether it would work on the 16X. It didn't do so well, but worked excellently when I hooked in the newer model. I am now hearing countless small and semi-distant stations during the daytime which were never heard before. Previously, I was limited to fair reception of stations like WGN, WBBM, WMAQ, WJJD, and WHO. Now they roll in with fine volume. In addition, I can hear WEAJ, WJZ, WABC, KVOO, WFAA - WBAP, WIND, WTMJ, WSM, WOR, WGY, WCCO, WHAS, WLS, WCFL, WBZ, KYW, WTIC, KMOX and so on up the dial."

Radio For Shut-Ins

"Being a shut-in to whom radio furnishes most of my entertainment. I would like to have you put my name and address in RADEX as one who would appreciate correspondence," requests Carl E. Sylvester, Box 213, Yale, Mich. "I would like to hear from listeners in all parts of the United States as well as Canada, Mexico, Porto Rico and Hawaii. I am a new DX fan, having been at it only since last April, when I secured my first copy of RADEX. I am using an RCA Victor R52 receiver and my aerial is a single copper wire, 75 feet long, running east-west. Can anyone identify a W8XAR heard on October 2nd at 0230 EST?"

"In your November issue, you had a discussion of reception on a crystal set," preambles Billy Snow, 302 Harrington St., St. Joseph, Mo. "One man says that overseas reception is the result of re-radiations by a near-by radio. Well, I've got a crystal

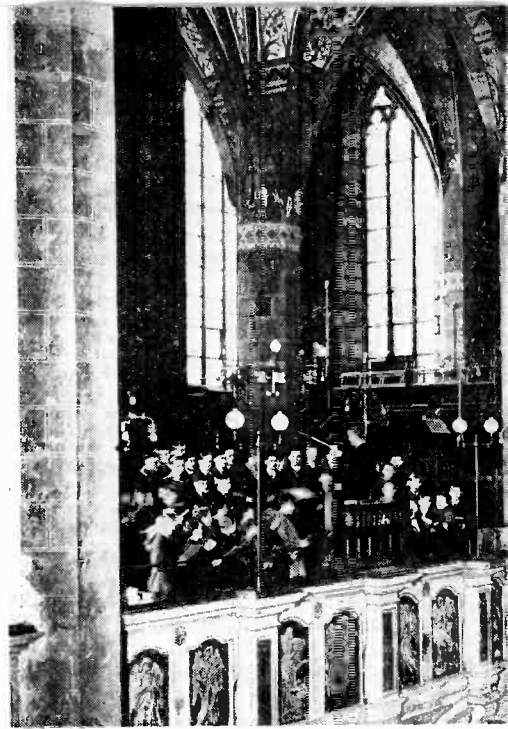
set a bum aerial and lead-in, yet in a week's time I received 25 stations on the broadcast band, including WCCO, WBT, KOA, WFAA, WBAP, WOAI, KSL, KVOO, XEPN, NENT, XEAW and WSM. I haven't tried to get a verification from any of these but I identified them all."

"Anyone who thinks he experiences man-made interference should try my location," bemoans Martin J. Olthoff, 212 No. 16th St., Independence, Kans. "Within a radius of a hundred yards are the following sources of noise: a hospital, with all of its electrical instruments and X-ray machines; a bottling works, with an electric bottling machine; two grocery stores, with meat and coffee grinders; a filling station, with all its electrical appliances; a barber shop; a garage with battery-chargers and the like; a refrigeration system for a beer concern; a main road over which three highways are routed; and a street car line. If there ever was an efficient interference department such as the French Post Office has, I wish someone would send it here. I believe I am located in a favorable position as far as signals reaching my aerial is concerned, but there's no way to shut out the accompanying noises."

"After looking over the September, October and November issues," admits Vernon Parker, U. S. Dam No. 53, Grand Chain, Ill., "I sure am pleased with the changes made. I enjoy the write-ups on new sets and I hope you will keep us readers informed on what is new along this line."

"I started DXing for the first time this fall," briefs Henry Bialoglowy, 47 Berkshire Ave., Bridgeport, Conn., "and in three mornings caught 18 stations. I would like to correspond with other DXers and will answer all letters faithfully."

"Like most readers of RADEX, I soon lose the cover of each issue," points out Victor Young, 83 Emery



Broadcasting the Children's Choir from the Thomaskirche in Hamburg, Germany, heard through the 100 kW "Mitteldeutscher" transmitter.

St., London, Ont. "When that is gone, it is often difficult to know just what issue I have. If you printed on the bottom of each page—RADEX for October, 1935, etc.—it would help a lot."

For the information of other cover-losers, the date of each issue is printed at the top of the masthead on page 2. To print the month at the bottom of each page would cut at least two lines from that page. Two lines cut from 112 pages would mean the loss of 224 lines in each issue. The average page runs some 54 lines high, so the loss of 224 lines would mean cutting about four pages of reading matter and information from each issue.

"Your information that KGGC and KRE are 24-hour stations is 50% correct," announces Roy Covert, who

neglected to give us his address. "KGGC is merely applying for unlimited time. Should they be granted such a license, the manager says that they will probably test 24 hours daily for only a few weeks. They will, however, increase their schedule somewhat. If readers know that KGGC is not a 24-hour station, the management will not be plagued with erroneous reception reports from embryo DXers. I have arranged with KSFO, San Francisco, to broadcast a special program from 4:00 to 4:30 AM, EST, on December 29th."

The All-Nighters Again

"I agree most heartily that it is selfish of the all-night stations to grab all the time on the air," maintains Paul Sampson, 1820 College Ave., Regina, Sask. "DXers are not the only ones to complain of this situation, for stations on the blocked channels don't like it, either. They often wish to conduct tests when a nation-wide audience is desired, yet they are unable to do so. Possibly it would do some good for the blanketed stations to write the F.C.C. and explain their plight. If DXers co-operated by sending politely-worded letters to Washington, pointing out how unfair it is to the station that plays the game, we might even have a certain silent time every night."

"As a Canadian DXer, I wish to back the remarks of Mr. Ashley V. R. Walcott on the channel hogs," exclaims Alfred H. Bacon, 928 Thirteenth St. New Westminster, B. C. "From a Canadian point of view, this class of radio broadcasting has gone far enough and a general protest should be lodged with the authorities in Washington. The F.C.C. may not know that their frequency check transmissions have been seriously hampered by the channel hogs. With a concerted action on the part of all listeners, lovers of radio, DX clubs and blocked stations, we could present a sound

platform for the abolition of this all-night trash broadcasting."

"In reading the recent RADEX, I recalled quite a few memories of my early days as a DX hound," remembers G. K. Glass, 9284 Boleyn Ave., Detroit, Mich. "I had a home-made, three-tube set using the 'Reinartz Audio Regenerator' circuit. It was designed for spiderweb coils, but had a 70-turn plain coil to be switched in for broadcast work. I used only the BC coil—to eliminate switching—and added two stages of audio amplification. At the time, I lived in Uniontown, Pa., and compiled some wonderful records with this receiver. When we heard and verified 51 stations in one night, we were doing something. I wish I had kept all my souvenirs of those early days, but they have all been thrown away."

"Stations really verified reports then. WWJ sent out a handsome book about radio and PWX wrote a personal letter. I think it was 6KW in Tuinico, Cuba, that sent out a map showing all the stations of Cuba. Quite a few broadcasters sent weekly or monthly program sheets. I remember that KFI once gave a five-dollar gold piece for the first telegram from every state after a certain program. We got the same line of blarney from KFKB that we had from XER and now XEAW."

"From the time W8XAF (KDKA) first started their tests. I was a died-in-the-wool BCL."

"I guess this whole parade of memories was started by the mention of how exceptional results on a crystal set were traced to a near-by regenerative receiver. I marvelled for weeks about one of my friends hearing PWX, 1200 miles away, on a crystal and demonstrating it time and again. But crime will out and our more technical friends showed that the culprit was a three-tube blooper on a parallel aerial next door."

"My first tube was a double fila-

ment audion, with wires coming out both ends and held to the panel by binding posts and a clamp. That was a far cry from the metal do-dads we see in the new sets today."

"Having never heard a TE, I decided to stay up on the night of October 10th and see what I could get." reports Anthony C. Tarr, c/o District Quartermaster, Fort Lewis, Wash. "You can imagine my excitement when I logged no less than twelve of them—one Jap, two Zedders and nine Aussies. There were several others that I was unable to identify, but that was a swell start. For a while after that, I was unable to hear many more, but early in November they began to swarm all over the dial. The morning of November 10th was the best yet, with clear reception from JOHK, JOIK, JOQK, JOCK2, JOBK1, JOBK2, JOFK, JOAK1, JOAK2, JOPK and JOGK. Strangely enough, the Aussies were very poor on that date. I wish somebody would give me a tip on how to verify these Japs. For an hour and a half, all that could be heard on one occasion was a man talking—and of course I don't understand Japanese. Recently I have heard a new Mexican on 820. The call sounded like XEMV and they announced their schedule as 6:00 AM to 10:00 PM, PST."

On Logging Stations

"With reference to the ever pertinent question of logging stations," comments Alfred J. Stansfield, President of the Universal DX Club, Oradell, N. J., "I believe a common and uniform system can be worked out if DXers will listen to reason. Several issues back, Mr. Spies outlined his suggestions, but did not reason out each of his points.

"The system which I favor contains four clauses: (1) maintain in your logs all stations which change frequency or location and count as a new catch any of these stations



This modern building houses the transmitting equipment of WTCN at Minneapolis, Minn.

which are received following the changes; (2) do not re-log stations which merely change call letters (Keep them in the log? Ed.); (3) maintain all deleted stations in the log; and (4) count as one station such combinations as WBZ-WBZA and WOOD-WASH.

"Relative to the first clause, stations which change frequency or location are really new stations which would be added to the log. Thus, one should re-log such stations when heard after the change.

"Why shouldn't we count stations again after a change in call? Well, just because an announcer identified a station under a different call doesn't mean that a receiver has accomplished another catch. This accounts for the second clause.

"Deleted stations should be maintained in every log because the log is a gauge of your radio, past and

(Continued on page 37)

Tuning The Scott High Fidelity

• • • By R. H. TOMLINSON

125 Terrace Ave., Port Chester, N. Y.

IT WAS back in 1925 that a mild sensation was caused in the radio world when four world's records for long distance reception were established by a receiver designed and built by E. H. Scott, a Chicago radio engineer. In 1932, Mr. Scott again attracted attention when he recorded virtually every transmission from two Australian short wave stations during a period of twelve months.

Last winter, I had the opportunity to test the Scott All-Wave Fifteen, so it was with a sense of anticipation that I unboxed the latest in a line of custom-built receivers—the 23-tube Scott all-wave model—and began to hook it up.

Perhaps the first impression of the receiver's performance was a demonstration of its abnormally low noise level. With the aerial and ground still unconnected, the sensitivity and volume were turned on full. Instead of a blare of internal set noises and hisses, the receiver was remarkably quiet. This presaged the favorable signal-to-noise ratio so necessary to good DX reception.

Skimming over the dial, the next feature to be noticed was the accurate calibration of the receiver. Between 540 and 1500 kcys, the greatest error was only one kilocycle. Over 95% of the markings were right on the nose. The short wave bands also ran true in most cases. The largest error noticed was the 7.52-meg KKH coming in at 7.56, and that was close enough for me.

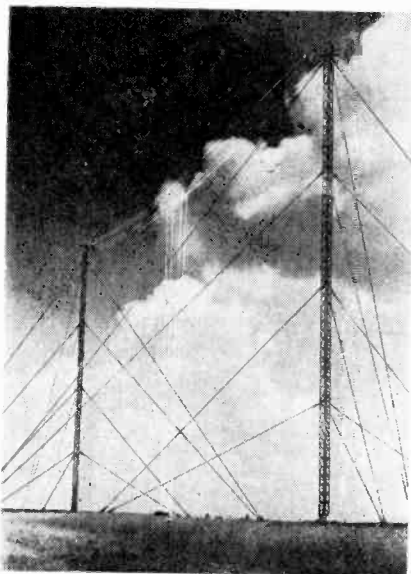
Getting down to some real DX, a listener cannot help but be impressed by the fine selectivity of the Scott receiver. Time and again, powerful local stations, many of them

within twenty-five miles of the receiver, were tuned out and European transmitters brought in on the loudspeaker.

Possibly the neatest bit of selectivity occurred when OKR, Bratislava, Czechoslovakia, operating on 1004 kcys, was brought in from under the powerful WHN on 1010. The 2-KW Nurnberg, Germany, station on 1267 was separated from the jumbles on 1260 and 1270 with very little interference. Another local, WOV on 1130, occasioned but slight overlapping on the Nyireghaza, Hungary, station HAE on 1122. HAE was logged in one instance for 37 minutes. The 1086-key station at Zagreb, Yugoslavia, was tuned right through the 1090 locals. Montpellier, France, on 1339, was logged in back of American stations on 1340, although interference was greater than in the other examples.

Additional Europeans logged during the latter part of November include Toulouse—which was heard with local volume practically every night; Liepzig, Berlin, Munich, Cologne, Hamburg, Frankfurt, Rennes, Bordeaux, Fecamp, Lyons, Lille, Strasbourg, Milan, Turin, Rennes, Rome, Hilversum, Poste Parisien, Prague, Copenhagen, West Regional, Midland Regional, London Regional, Bordeaux, Marseilles and a few others. In most cases, sufficient material for a good report was obtained.

Of the South Americans, very good split-frequency reception was to be had on the Brazilians, with PRF4 on 923, PRB4 on 965, PRB9 on 1017 and PRG3 on 1283 heard frequently. In Uruguay, CX8, CX14, CX16 and CX26 have been logged several times.



The aerial masts of the Raszyn transmitter, Warsaw No. 1, Poland.

In the Argentine, LR5 stands out for regular nightly reception, with LR1, LR2, LR3, LR4, LR6, LR10, LS2, LS8, LS4 and LV3 also being heard. LS4 was tuned one night when he slipped 3 keys below his frequency and was logged through WMAQ on 670. HJN, Bogota, Colombia, has been logged several times on his new frequency of 695 keys in spite of the 500-KW WLW on 700. HJ3ABH is another Colombian which is heard regularly on 625 keys. YV1RC is like a local. Other southern stations to be heard were YV3RC; ZP9, in Paraguay, on 895 keys; HHK on 921, TGW on 1217, WNEL and WKAQ.

Trans-Pacific reception has been fair during the short time since the receiver was delivered. 2CO, 1YA and the new 3GI have been the best, with 2YA, 3YA, 5CL, 5CK, 2SM, 2GB, 2BL, 4QG, 4BC and 7NT stringing along behind.

The sensitivity of the Scott is very high as may be imagined from the

catches listed above. Not once have I been obliged to advance the volume control more than half way to bring in any foreign station with loud-speaker volume. Of course, the previously-mentioned favorable signal-to-noise ratio makes it possible to utilize as much sensitivity as may be required.

Reception on the short waves has been very good. All continents were logged within a week, with dozens of South Americans and Europeans being heard. Considering the time of the year, Japanese and Australian stations have come in very well. The 20 and 40 meter amateur phone bands are red hot, with hams all over South America and Europe heard every morning and evening.

Even though the time of testing has been relatively short and the weather conditions have been very unsettled, the 23-tube Scott all-wave high-fidelity receiver has earned a 100% DX rating.

Another Shift Coming

A REALLOCATION of frequencies, the like of which has not been seen since the "earthquake" of November, 1928, is in the offing. The Broadcast Division of the Federal Communications Commission has taken steps looking to an early revision of the entire broadcasting set-up. As a first step it adopted regulations governing the installation of antenna systems and requiring all stations to install modulation meters.

The Engineering Department of the FCC has mapped out a plan which will bring about a horizontal increase in power from 1,000 watts to 5,000 watts at night on seven of the regional channels; bring up to 1,000 watts at night the stations on 17 regional channels, and fix a lower mileage separation on the remaining 16 regional channels with power from 250 to 1,000 watts.

The clear-channel recommendations

are expected from the Engineering Department within a month. Roughly, the proposal contemplates the setting aside of some 25 of the clear channels for superpower stations with a minimum of 50,000 watts, eventually to become 500,000. The whole matter of chain broadcasting is also due for a careful study. Some of the Commissioners are said to feel that the same program appears on altogether too many places on the dial.

The FCC declined to make public the frequency classifications on the ground that they might be changed before being passed upon. The National Association of Broadcasters, however, publishes them in a bulletin to members as follows:

Regional channels on which stations would be permitted to increase power horizontally at night from 1,000 to 5,000 watts with 5,000 watts day: 590, 610, 620, 920, 940 and 950 kcs.

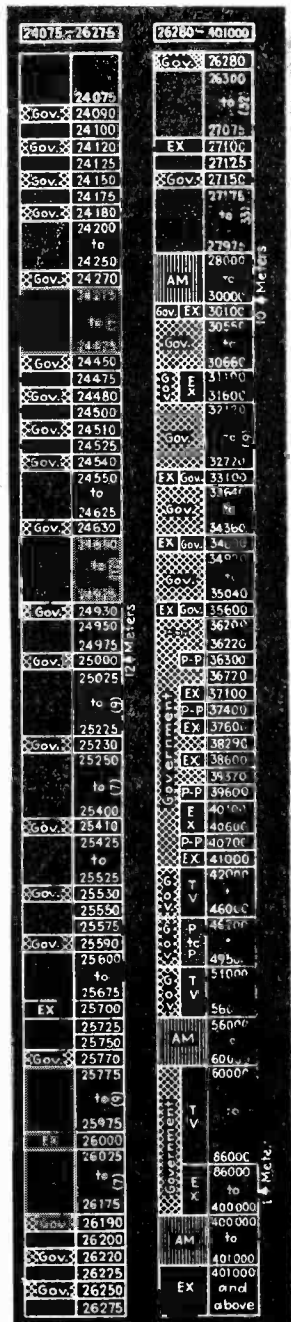
Channels on which maximum night power will be 1,000 watts and day power 5,000 watts: 1010, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1320, 1330, 1340, 1350, 1360, 1380 and 1390 kcs.

So-called "city channels" on which stations would be assigned with power of from 250 to 1,000 watts at night, and up to 5,000 watts day, with reduced mileage separations: 550, 560, 570, 580, 600, 630, 780, 880, 930, 1120, 1400, 1410, 1430, 1440 and 1450 kcs.

Watch future issues of this magazine for new developments.

The Frequency Charts

We present herewith the last of a series of graphic diagrams illustrating the division of the radio bands. These began in the May, 1935, issue of this magazine. The complete set shows in the plainest way possible just how the different frequencies are allotted. Back issues are available.



Around the World on the SHORT WAVES

• • • By PAGE TAYLOR

THE Republic of Mexico is in the spotlight this month. Within the past few weeks more shortwave stations have appeared in Mexico than ever had existed there before. It seems that most of the major broadcasting stations are installing s.w. auxiliaries. The high frequency situation as it exists at the present time is summed up in the following paragraphs.

In Mexico City, D. F., are XBJQ, XEBI, XEBT, XECR, and XEXA. The first of these, XBJQ, is owned by the National Bank of Mexico, P. O. Box 2825, and for a few weeks relayed the programs of XEW. This station was silent for a while but a few listeners report that it has returned to the air on a somewhat irregular schedule. Persons interested in QSL cards should not fail to log this station as we understand they have a very attractive souvenir for listeners.

A station XEBI works on 5980 kcs. nightly between 10 and 11 pm, EST. Further details on this station are not known except that the address is Apartado 2874, Mexico City.

XEBT, the oldest existing station in the Republic, is well known to most of our readers. This station works on 6000 kcs. daily from about noontime until after midnight, and is one of the most easily recognized Mexicans as it has numerous interval signals, such as cuckoo, a rooster, a siren or a fire bell. The address is El Buen Tono, S. A., Apartado 79-44.

XECR is the government-owned station on 7380 kcs. Albert Steinmetz, 411 W. Girard Ave., Philadelphia, Pa., has a note from Mexico City concerning his reception of this

station which he is unable to decipher. Letters to XECR are first acknowledged by a receipt from the Mailing Department which handles all the mail addressed to government departments. The slip merely states that a letter has been received and referred to the proper department. The actual verification of reception follows within a week or so. QSL cards from XECR are attractive picture post cards showing views in and around Mexico City.

Sr. Fernando Pozos Soso, Director of station XEU at Veracruz, writes us that XEU programs are now relayed by a shortwave station XEUW on 6020 kcs. with 50 watts power. It has been our understanding that slogans were used to facilitate the identification of stations, but it is quite doubtful that the slogan of XEU-XEUW will be of much help. The Slogan: "El Eco de Sotavento desde Veracruz." (Perhaps that is better than no identifying symbol at all). The address is Independencia 98, Veracruz.

Just a few steps down the same street from XEUW we find station XEFT, "La Voz de Veracruz," at Avenida Independencia 28. XEFT works with 20 watts output on Saturday from 1830 to 2400; on Sunday from 2100 to 2400, and on the other days of the week from 1930 to 2400, EST.

In Guadalajara, State of Jalisco, there is XEDQ on 9520 kcs., relaying the programs of XED daily from 0800 to 0900 and from 1200 to 2400, EST. Listeners fortunate enough to pick up these programs should address their reports to Cia. Radiofonografica, Apartado 197.

In Tijuana, Lower California, there is a high frequency station re-transmitting the programs of XEOK; tentatively this station bears the same call sign as its sister station, XEOK. Offices of this station seem to be on this side of the border as letters should be sent to Carlos de la Sierra, Box 1441, San Diego, Calif. XEOK has been heard on 6.130 kcs.

With the Canadians

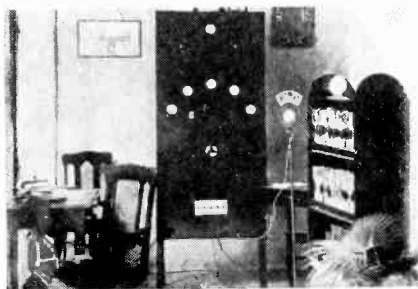
"The operators of station VDC at Calgary sent me a letter, the tenor of which seems to indicate my report to them was correct. This station works with VDV at Two Brothers Lake, B. C., and with a 5-watt code station VDW at Takla Landing, B. C. They all work on 4490 kcs. and are owned by the Two Brothers Valley Gold Mines Co." Ashley V. R. Walcott, 76 San Rafael Way, St. Francis Wood, San Francisco, Calif., is the writer, and continues, "The North-West Telephone Co., 768 Seymour St., Vancouver, B. C., sent me a blueprint map of British Columbia showing the location of their phone stations. Since this list does not check perfectly with RADEX, I submit the list, as follows: Vancouver, VDO, 4865 and 4436 kcs., 400 watts; Prince Rupert, CGP, 5400 kcs., 400 watts; Anyox, 5400 kcs.; Ocean Falls, CGO, 4505 kcs.; Prince George, CZO, 4505 kcs.; Bridge River Mines, CX2B, 4505 kcs.; and Columbia Oils, VXX, 5400 kcs. They all use 400 watts power except VXX, which is only 50 watts. The independent stations in the telephone network are Claydon Bay, CXP, 4505 kcs., 50 watts, the Yacht 'Tacomite' and Butedale, for which neither call nor frequency is given.

"Forestry service stations apparently will verify. KBCD, 3445 kcs., Northfork, Calif., does, and says that the station is located at CCC Co., 988, Northfork. The Los Angeles Flood Control District also confirms reception. A letter verifies

KIYY, 2726 kcs., and KINT. KIYY has 400 watts and KINT, 50 watts. Reports should be sent to 205 So. Broadway, Los Angeles.

"WXY, Nome, Alaska, says they have no regular schedules with WVD at Seattle. The writer of the letter gives their frequency as 8180 kcs. but I heard them around 8800. This station is one of those owned by the Signal Corp, U. S. Army. WXA, Juneau, comes in here on 2604; WXE, Anchorage, on 2994 on Friday nights near 2130, PST, talking to KIIO at McGrath, on the same frequency. KIIO is too weak to be identified positively."

"Today I received a verification from a new station," states A. W. Morley, 782 Dorchester Ave., Winnipeg, Man. "The station is VE9BK on 4795 kcs. and is owned by Radio Sales Service, Ltd., 780 Beatty St., Vancouver, B. C. I cannot give the schedule as it was not stated in their letter, but I generally hear them between 1:30 and 2:00 am, CST. I always read the other DXer's letters with interest and now I am going to let them in on my log which covers nearly every province in Canada and all the states except Nevada. I have at least two stations on every continent except Africa, where I just have a big goose egg; however, I still have hopes. I bought my new radio last February and I certainly am satisfied; it is a General Electric



The transmitter and collection of recordings used by CMJP in Moron, Cuba.

K-80. Since then I have logged 349 stations, not counting hams which are too numerous to mention. I heard all the 9 radio zones in the States but I have not been so lucky in Canada."

In the War Zone

"I have this information on the new Ethiopians from their Chief Wireless Engineer," contributes Joel H. Armantrout, 602 E. Magnolia St., Fitzgerald, Ga. "The call letters of these stations are ETA and ETB. ETA on 16.42 meters works from 1200 to 1400 EST, and ETB on 25.09 meters works from 1400 to 1600, FST. These are not broadcast but telegraph transmitters; there are no broadcasting stations in Ethiopia, but occasionally broadcasts are given over these stations. Reports should be addressed to Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications, at Addis Ababa."

In issuing an extension to an existing license to the RCA, the Federal Communications Commission authorized stations WEC, 8,930 meg. and WQF, 17,920 meg., both at Rocky Point, to work the Addis Ababa stations. The FCC stated that all the Ethiopian stations were known as ETA.

"In your magazine you state that the German stations close with two National Anthems, the Nazi Hymn and the Watch on the Rhine. This is incorrect, however, and I will give you the correct titles. The first anthem played is 'Deutschland, Deutschland, ueber alles.' The Watch on the Rhine was never considered as a national anthem but was a popular song played during the Franco-Prussian war, comparable to the American 'Over There.' The second hymn is called correctly 'Horst Wessellied.'" For this information RADEX is indebted to Dr. John A. Gammel, Lakeside Hospital, Cleveland, Ohio.

The Federal Communications Com-

mission this week granted a construction permit to the Radio Corp. of Porto Rico for a fixed public point-to-point radio telephone to work on 13,410 kes. with 400 watts. On completion, this station will work with WNC at Hialeah. At the same time, WNC was granted permission to add three new points of communication, Tela, Puerto Castilla and La Lima, all in Honduras.

Two readers send us almost identical letters; Antony C. Tarr, c/o District Quartermaster, Ft. Lewis, Wash., and H. C. Green, 325 W. Main St., Madison, Wis., write, "I have just been listening to a new station in Tegucigalpa, Honduras, on 5875 kes. with the call letters HRN, 'N for Navy.' Announcements were in excellent English and apparently directed to listeners in this country. They signed off with Ted Lewis' Good Night Song, and afterwards contacted some So. American stations. The announcer said they work also on 1350 kes."

Mr. Green uses a Philco 116B on which he has heard 600 stations during the past 5 months.

Mr. Tarr's letter continues, "I have noted the following changes in s.w. stations: YV2RC moved to 5800; HJ2ABC from 5890 to 5975; and HCJB shifted from 8214 to 8470. I also understand that RV15 has commenced to verify reports."

Schedule of HIH

Sr. Domingo Dominguez, owner and operator of HIH at San Pedro de Macoris, Dominican Republic, tells us his station works on the crystal controlled frequency of 6796 kes. with 150 watts in the antenna. "Our schedule," he writes, "is Sundays, 3 to 4 am, 12:30 to 3 pm, and 4 to 5 pm. Mondays, Wednesdays, Thursdays and Saturdays, from 12:10 to 2 pm, and 7:10 to 9 pm. Tuesdays and Fridays from 12:10 to 2 pm, and 7:10 to 8:10 pm. Our Sunday morning broadcast from 3 to 4 is in English and is dedicated to

shortwave listeners and clubs of the United States and Canada."

Geo. W. Acker of Wadsworth, Ohio, covers the shortwave situation very thoroughly in his letter. He has a new Philco 116X and is very enthusiastic about its operation. "The best Russian station at the present time is RIO," he writes. RIO has been coming on the air somewhere near 10 pm, but for the past few nights seems to be starting later, near midnight, and then they continue to work Moscow until the wee hours of the morning. This station is usually heard R7-9. However, getting RNE at Moscow at this time is another question, but RNE did happen to get in here one morning. Another steady newcomer the past week or so has been IRY, Rome, on 16,110 kcs. It has been heard every morning lately all the way from 7 am to noon, working Cairo and sometimes Eritrea. PMA is at present the best and most frequently heard of the Javanese. It phones between 7 am and noon, and sometimes they broadcast music after 10 am. JVN has been heard a few times between midnight and 1 am with its Overseas Hour but it usually is quite weak. Quite often these days, after 2:15 in the mornings, the German stations conduct experimental transmissions on new wavelengths. DJP is one of these, on 11,855 kcs., but it is very weak and unsteady. Another new frequency is DJR, 15,340 kcs. but of course this one cannot be heard here at that time. Despite the large number of German stations on the air, there is only one, now, that comes through at all well, and that one is DJB from 10:30 to 11:30 in the mornings. Night-time reception of London is no longer any good; GSA-B-C and -D are either too weak or covered up in interference. GSI is good at noon-time."

Mme. Inna Marr advises us that, in response to thousands of requests, the midnight programs from

Moscow will be broadcast on 50 meters this winter instead of on 25 meters. Midnight in Moscow is 5 pm, EST. and her letter seems to indicate programs will commence at that time.

From Newfoundland

"Conditions have improved here and I have received about 56 new stations on the s.w.," relates Maxwell Scott, Corner Brook, Nfld. "The most reliable station we get here is W8XX, and it comes through perfectly on 19 and 25 meters; on 49 meters it suffers from interference and it is only once in a while it gets through well. In the 49 meter band I have also heard CRCX, W3XAL, W2XE, W9XF, GSL, and YDA5. As YDA5 works on the same wavelength as W2XE it only comes in irregularly. The following stations are also quite consistent: HIZ, CJRO, HJ2ABA and 3ABF, HJ1ABB and YN1GG. On 31 meters the best are COCH, VK3ME, 3LR, PRF5, DJN and CT1AA. Following is a list of stations which are not listed: VE9BK in Vancouver on 4790; CR7AA, Mozambique on 84 meters; YV1ORSC at San Cristobal, Venezuela on 5720 megs. and YNGU at Managua, Nicaragua on 9000. I have picked up a new German, DIP, on 14.410 megs. with good volume."

"I am finding DXing much better this fall than ever. I have logged several countries in one evening, the best of which were HP5B, YV2RC, HJ4ABE, HC2RL, DJD, DJN, DIQ, IRO, HJ4ABA and LSX." summarizes Byron Bair, 33 Park Ave., New London, Ohio. "I have also heard two unlisted stations. First was WWTA of the U. S. Customs Service testing on 1626 (where is it located, Mr. Blair?) Two new police stations are WQFY at Mansfield, Ohio, and WQFW at Columbia City, Ind., 2474 and 1626 kcs. respectively."

A number of readers have noticed, when listening to KDKA or W8KK, that the announcer mentions another call sign, W8XKA. W8XKA

is a low-powered ultra-high-frequency station working near 55 megacycles. It is not believed this station will be heard beyond a radius of about 25 miles from Pittsburgh, but, maybe someone will be surprised! Amos 'n' Andy were surprised when their first broadcast, in New Orleans, was picked up several blocks away from the station. According to reports we have been reading lately, ultra-shortwaves are hopping across oceans and it was not very long ago everyone thought these frequencies could not be transmitted beyond the horizon.

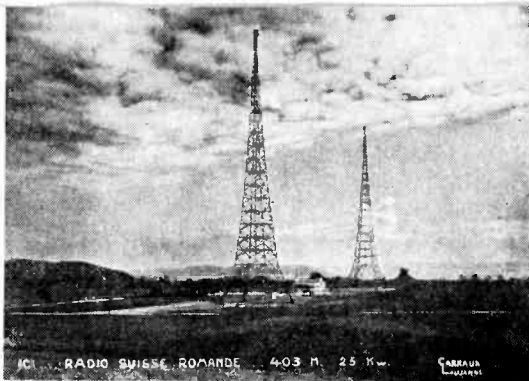
"On a QSL card from FRA8 they state that they transmit on 49.67 meters or 60.40 kcs. with a power of 3 kw.," contributes Miguel A. Rivera, P. O. Box 480, Hong Kong. "Hong Kong is wrongly listed as transmitting on 6750; they actually work on 8750 kcs. The Hong Kong Broadcasting Committee has reserved the following frequencies: 5410, 6090, 9525, 11740 and 15190 kcs. for their projected transmissions."

Mr. H. J. McAllister, of Station KVI, W. R. Rust Bldg, Tacoma, Wash., sends RADEX a list of shortwave stations operated by the Puget Sound Broadcasting Co., as follows: WQFW, on the yacht "Gallant Lady," 40 watts, owned by Mr. M. C. Riggs. WLFQ on the yacht "Heljim," also 40 watts, owned by James V. Griffith.

The broadcast pickup station used by KVI is KNEC, 40 watts, and works on four frequencies: 1646, 2090, 2190 and 2830 kcs.

A Short Wave Race

"A race is now in progress that promises to furnish shortwave listeners with greater thrills and finer entertainment than ever enjoyed before. I refer to the race between the leading nations for shortwave supremacy." Jack McLaren, Radio Editor of the Elmwood



The towers and transmitting house of 25 kW "Radio Suisse-Romande," at Lausanne, Switzerland.

Herald, Winnipeg, Manitoba, is the writer of the letter. "Germany announces that by next year it will have the most powerful s.w. broadcasting plant in the world. England not long ago announced that two new super-powered transmitters are to be added to the already large number of stations at Daventry. France is planning to enlarge its s.w. facilities and I understand that initial tests have already been made on some of its equipment. Even Japan, I learn, expects to enlarge its shortwave facilities so that regular broadcasts to America and the rest of the world can be scheduled. Thus the shortwave listeners are promised continually increasing and improving sources of entertainment from world centers. I do not expect it will be long before nearly every important world metropolis will be heard here nightly in America. I have seen rumors that even Afghanistan, the Forbidden Kingdom, is soon to have five new s.w. stations. The biggest of these will be in the capital city, Kabul, and will have a power of about 3.5 kw."

X Times Y Equals XY

A curious reader wants to know why the frequencies as given in megacycles or kilocycles in RADEX do not agree with those given in other publications. "For instance," he says, "take LSM in Buenos Aires. This station is rated as operating

on 14.19 meters. You give the frequency as 21,128 kcs. while other magazines give it as 21,142. Why the difference?"

Radio waves travel with the speed of light, 299,820,000 meters per second. If a station operates on a wavelength of 14.19 meters and we want to find its frequency we must divide 299,820,000 by 14.19. The answer is 21,128 as given in RADEX. It cannot be anything else so long as 2 times 2 continues to make 4 and 4 divided by 2 gives 2.

Those publications which do not care for accuracy use the round figure of 300,000,000 merely to make calculation easier for themselves. They are not impressed by the fact that their inaccurate result throws their readers off their calibration . . . in this case, 14 kilocycles.

We admit it makes for easier calculation to use round figures but this magazine is more concerned with accuracy than with ease.

Verifications Again

"On the 'What is a verification?' question, I believe that some exceptions might be made to the rules you suggest, but only when it is definitely known that the station's policy is to issue a verification without stating that it is a positive verification," explains J. W. Brauner, 17 E. Spring St., Williamsville, N. Y. "There are a great many stations whose QSL's do not mention positive verification, although the sender of the cards means that they should be so construed; the value of such verifications should not be discounted. Because each station, so it seems, has its own distinctive way of verifying, it seems almost impossible to draw up a list of positive rules concerning this matter. I believe everyone will agree it would not be much fun collecting QSL's if they were standardized."

"Three or four times I have heard HRN at Tegucigalpa. The reception on my 11-tube Philco has been very clear and distinct. YV2RC was also

heard on its new frequency of 5800 kcs.," says L. H. Pough, 4 Lenox Place, St. Louis, Mo. In his letter Mr. Pough brings up an old subject. He writes, "Let's persuade the So. Americans to slow down when announcing; instead of saying YV2RC they should say Y-V-2-R-C." It is a very good idea but fully as applicable at home as abroad. Spanish people are naturally fast talkers. We will be satisfied as long as their stations continue to come in well and they verify our correct reports.

Some Pointers

"The other evening at about 9:58 pm, EST, I tuned in a test broadcast from HI-1-A at Santiago de los Caballeros, D. R.," postcards J Herbert Hyde, Box 82, Elmwood, Conn. "In giving his identification I understood the announcer to give his frequency as 6185 kcs. This varies a little from the frequency given. The broadcast was very well received up here. The signal was loud and clear, slight fading, slight static and a little CW interference. The announcer asked for reports and stated he would verify by special cards prepared for the occasion." If Mr. Hyde gets a QSL from this station we would like to hear about it as this is one of those stations that request reports and promise verifications. but seldom keeps its promise.

"I have the following information on some new stations," writes Thomas Black, 143 Carroll St., Pittston, Pa. "WVTA of the United States Customs Service was heard testing on 1626 kcs. This station is in St. Albans, Vt. VE9BM, Monreal. 1620 kcs. was heard a few times and a new police station, W4XAJ, in Nashville, Tennessee was testing on 1.666 megs."

"I wonder if HJ5ABE at Cali is still on 14 megs." queries Emile C. Page, 1717 North Highland Ave., Glendale, Calif. "I heard a So. Amer-

ican broadcasting among the 20-meter hams the other night and heard him mention Cali, Colombia. I didn't get his call letters. I have seen reports that HJ5ABE was to move into the broadcast band so perhaps I heard some other station taking its place."

"Upon writing to the police department at Augusta, Ga., I obtained the following information which is not in RADEX," reports Robert House, Jr., Chapel Hill, N. C. "The call sign of this station is WQFB and the power is 250 watts. I wish also to report reception of W10XF at Rapid City, S. Dak., on 6350 kcs. He came in with tremendous volume, but of course is now off the air because his work with the Stratosphere balloon is finished."

"I would like some information from RADEX readers on these two new stations," requests Harry E. Robinson, 318 Broadway, Elmira, N. Y. "I heard WWHK calling WWHI, both stations being near 3.410 megs. They were heard near 9 pm. I would like to know their location."

Clayton Lamb, 241 Geil St., Salinas, Calif., reports two new stations. One of them is the new Mexican XEOK at Tiajuana on 6130 kcs. and the other a Javanese, call letters unknown, on 9600 kcs.

"During the past two weeks I have been trying to receive stations above 12 megs. but with no success, on the D Band of my RCA-Victor," complains Clarence J. Howard, 34 N. George St., York, Pa. "On the C Band, however, I enjoy good success; the lowest frequency I have heard is GSG, 17.7 megs. I have also received HAS-3 and PCJ and many other stations up to 6 megs."

A great many tuners trying shortwaves for the first time try to tune the shortwaves as they are used to tuning the broadcast band. After a while they learn that there is a great amount of difference between



The main equipment room of WABC, showing the 50,000 watt transmitter and the 17,000 volt power supply. This station is located at Wayne, N. J., about 20 miles from New York City.

600 kcs. and 6000 kcs. Then, after acquiring the knack of tuning 6 and 9 and 11 megs., they sometimes expect 15 or 17 or 19 megs. to tune as easily as 6 megs., but this is not true. When one gets above 15 megacycles, each additional kilocycle becomes more critical and requires additional care in tuning. Above 18 megacycles there are scattered phone stations, most of them using inverted modulation and reception of these stations is as much a matter of luck as it is of deftness in tuning.

A postal card just received from Byron Bair of New London, Ohio, gives the location of WWTA, mentioned earlier in this article. WWTA is located at St. Albans, Vermont, U. S. Customs Station.

The new XERA proves to be the old XER with the fourth letter now required by the Mexican Government. It is located at Villa Acuna, Coah., and is on 840 kcs. with 250,000 watts. The mail address is Brinkley Hospital, Del Rio, Texas. The station is on from 5:00 p.m. to 10:00 a.m. CST and will not verify.

* * *

WHBL, Sheboygan, Wis., has been granted a CP to move from 1410 to 1300 kcs. When it does so it will reduce power from 500 to 250 watts.

Eighteen Tubes in a Midwest Set

• • • By B. FRANCIS DASHIELL

EACH time the writer examines a new Midwest offering he becomes reminiscent of the early days of radio. It was then that sound always was distorted. Pushing and straining through tubes that lacked capacity to carry full audio loads did not do tone reproduction any good. So, when experimenting with tube sets, following the downfall of the crystal, this writer began using two output tubes connected in parallel so as to double the carrying capacity. This cut down distortion, for the full range of audio frequencies flowed easily. As that was at a time when tubes sold at more than six dollars each, it proved to be a costly obsession. But it worked nicely. And, strangely enough, even today with our modern power tubes, this scheme still works effectively.

Because Midwest's engineers have been using a second set of power tubes in parallel for many years, it is with pardonable interest, therefore, that the writer always looks for this arrangement whenever a new Midwest circuit appears. Two or three other manufacturers, seeking high fidelity of tone reproduction, also provide parallel power tubes. Certainly the perfection of sound that is obtained justifies some extravagance with radio tubes.

18 Metal Tubes

Such circuits, together with some manufacturers' ideas of apparent recklessness with tubes, may appear to casual purchasers to seem rather formidable as well as current-consuming. But there are radios using as many as 24 tubes to get unlimited full-fidelity of tone. However, if we strip such sets down to their basic essentials, we find them to be merely 12 or 15 tube receivers. But these

multi-tube sets remind one of modern eight-cylinder motor cars; for, while not absolutely necessary to performance, it is nice to have the "feel" of those extra cylinders.

The new 1936 Midwest offering utilizes 18 tubes in a superheterodyne chassis. The circuit is newly designed so as to accept either metal tubes or their glass-metal counterparts, without change. None of the older type tubes are incorporated. The type "G" glass-metal tubes are specifically recommended by the maker of this set instead of the all-metal tube because of the experience gained with the "G" tube which now seems entirely dependable and efficient. Either type has "Octal" bases and fits into the new keyed sockets. Metal tubes are built within their own external shields, while glass-metal tubes, although having identical internal arrangements, require certain external metal shielding.

Many New Features

The 18-tube superheterodyne chassis is 20 inches long, 12 inches wide and $8\frac{3}{4}$ inches high. It tunes over a wide all-wave band ranging from $4\frac{1}{2}$ meters to 2400 meters, or 67 megacycles to 125 kilocycles. Tuning is divided into six bands, any one of which may be quickly selected by turning one of the stream-lined control levers. The bands are calibrated in kilocycles or megacycles, and tuning is accomplished by a set of two-speed knobs; a 4 to 1 ratio for the broadcast waves, and 20 to 1 for the short waves. A push button on the panel silences the radio when shifting from one station to another. On the broadcast band important call letters are printed. There is an illuminated indicator (Line-O-Lite) used for tuning stations. Automatic visual band selection (Spot-O-Lite)

is provided by a point of light that moves up and down automatically to the proper scale on the dial as the wave-band changing switch is rotated.

Visual tuning is accomplished by dimming the otherwise brilliant pilot light to a soft, pleasing glow. The dimmest point is reached when the station is properly tuned in. A station-finder push-button, placed opposite the silencer button on the panel, provides a heterodyne whistle for locating weak stations or receiving c.w. signals. The program regulator (Fidel-A-Stat) provides control over the entire musical range to suit individual listeners or the type of program being received.

How The Set Works

This radio automatically adapts itself to the antenna because the six primary coils are designed to suit the different wave bands under any conditions of antenna. Incidentally, there is a new Midwest all-wave doublet antenna system especially designed for this set. Excellent tone reproduction is obtained by means of a 12-inch cone speaker that handles 20 watts of power without any distortion. Sound-dispersing vanes fitted into the cabinet spread high notes evenly throughout the room. The Acousti-Filter prevents booming and blasting effects.

The attractive dial is divided into six parts or bands, and there is no over-lapping of bands or stations when changing bands. This all-wave radio tunes down to the $4\frac{1}{2}$ meter region that is now being exploited by tiny experimental ultra-short-wave transmitters. An other band goes up as high as 2400 meters, into the realm of weather, aviation and commercial services. The first, or "A" band, embraces all broadcasting stations between 520 and 1540 kilocycles; and "E" band takes in those long waves between 125 and 360 kilocycles; the "L" band covers police and amateur signals between 1.5 and 4.2 megacycles (1500

and 4200 kilocycles, respectively); the fourth, or "M" band, includes regular foreign short-wave reception between 4.3 and 12.0 megacycles; the "H" band takes in additional short waves between 11.0 and 30.0 megacycles; and the final, or "U" band, covers the ultra-short waves between 30 and 64 megacycles.

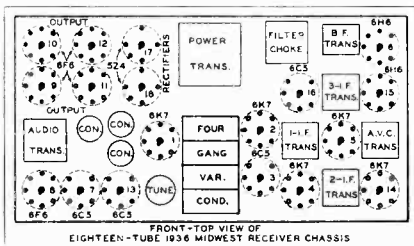
The New Circuit

Our sketch shows the 1936 Midwest 18-tube chassis. A four-gang condenser simultaneously tunes four circuits that are selected instantly from the 6 wave bands by the band-selector switch. The original signal, after being tuned by one of the six antenna r.f. coils placed beneath the chassis, passes along to the radio-frequency amplifier tube No. 1—a type 6K7. Then the amplified signal goes into the type 6K7 mixer or first detector, tube No. 2. This tube has connected to it, electronically, the oscillator—tube No. 3, a type 6C5. Only the fundamental frequency of this oscillator is used, and all harmonics are suppressed. This eliminates image frequency interferences and unnecessary repeat points for signals.

The output of the mixer is, of course, the intermediate frequency of the set. In this case it is 456 kilocycles. This signal now passes to tube No. 4, type 6K7, after being amplified by the heavily shielded full-gain i.f. transformer at very high amplification. Then the output passes through a second i.f. amplifying transformer and into tube No. 5, another 6K7. Then, passing through still another i.f. coil, the signal reaches a type 6H6 tube, which is the second detector, or, as it is called, the audio amplifier. Next in line is a type 6F6, or audio driver tube, No. 8. Its greatly amplified audio-frequency output passes through a large full-range a.f. transformer.

The output of the transformer is fed into a powerful bank of four 6F6 power tubes, Nos. 9, 10, 11 and

12. This is a simple push-pull circuit, but each essential triode tube and an additional tube connected in parallel to provide the easy flow of audio power mentioned at the beginning of this article. Two type 5Z4 rectifier tubes, Nos. 17 and 18, are used to furnish the B voltage and current necessary for a radio of so many tubes. In addition to the foregoing are the following tubes: A type 6K7 is used as the automatic-volume-control amplifier; its rectifier is a type 6H6, tube No. 15. Tube No. 16 is a type 6C5 used as a beat-note station finder; it is connected to a beat-frequency adjustable transformer. No. 13 is a type 6C5 tuning tube, and it operates through a tuning or tone-control choke. This tube controls the dimming of the pilot light when a signal is tuned in. A large power-transformer is used with a heavy-duty power pack, and a heavy choke helps filter out a.c. hum.



The Editor's Desk

IF NOT a turkey, we hope there was at least "a chicken in every pot" of our readers for Christmas. We hope, further, that 1936 will be for every one not only a Very Happy but a Very Prosperous New Year. We extend to our readers all over this globe, our best wishes.

The new year promises to be a highly important one in Radio. A great shake-up of broadcasting is heralded by flashes of lightning from the Commission's offices. We feel sure that a great reallocation is pend-

ing which, with the experience of the months since November, 1928, will make for greater and more enjoyable radio. Of this, more in another column.

The Time on the Air

In the October issue, we gave the hours on the air for the stations on Sundays; in November, for Saturdays; and last month the hours for the week-days. This completes the schedules. In February we are planning, provided it can be worked out in the space we can allot to it, to give a complete resume for all the hours of the week for each station. Make a note now not to miss the February issue.

This month, in the Index by Frequencies, we are giving the owners' names and, wherever possible, the addresses. In February or in March, the Index by Frequencies will be a combination of all the broadcast stations of the world, both North American and foreign. This consolidated index is of special value to those of our readers who are fortunate enough to be able to tune in the foreign stations and can thus locate them in a single index.

On Board Ship

Here is another question for our sea-faring readers. "What kind of an aerial will give me the best results on a steel ship where the technical ground is very high? Some say a split aerial of 20 and 40 feet with transposed down-leads with transformers at aerial and set; others that a single wire will give best results. Your suggestion will be appreciated before I spend any more money on aerials." This inquiry comes from a sailor aboard a steel tanker.

Readers often report to us that such-and-such a station verified their reception without return postage. They mention this with pride as though it were an achievement. This magazine considers it, on the other hand, a bit of sharp practice.

It is, of course, quite in order to send reports to stations without return postage but if a verification is expected, stamps or coins should always be enclosed. The DXers who report on post cards and ask for verification or by letter without return postage, are an unmitigated nuisance and a growing menace to the cooperation of the broadcasters. It costs money for stations to verify without being asked to prepay their replies.

With the Stations

If you happen to hear KSTP on 1310 it will be because the St. Paul station is now linked regularly with KROC, the new station at Rochester, Minn., the little town made famous by the world-known surgeons, the Mayo Brothers. Twenty-two nearby villages participated in its recent dedicatory program.

Wilton Harvey Pollard, a broadcast engineer, has applied to the FCC for authority to erect a new 100-watt station on 1200 kcs. in Huntsville, Ala., taking over the facilities of WBHS. Station WBHS, licensed to Virgil V. Evans, who seeks its removal to Chattanooga, has been silent since September, 1934.

Last April, KFPM, Greenville, Texas, which with 15 watts was the lowest-powered station in the country, was delegated at the voluntary request of the operators. It is now seeking reinstatement on the 1310 channel with 100 watts. Its proposed purchasers are James R. Curtis, operator of KFRO, Longview, Tex., and others. Call letters of KVOG are requested.

The publishers of the Memphis Commercial-Appeal have applied for a construction permit for a new station in Mobile, Ala., on 950 kc. with 1000 watts night and 5,000 watts to local sunset.

The ownership of WLBF, Kansas City, Kansas, operating with 100 watts on 1420 kcs. has been transferred to the Kansas City Kansan which is owned by Senator Arthur

Capper. Senator Capper also owns WIBW, Topeka, to which WLBF is being linked by land line.

Although licensed sometime ago, the new call of KEHE will not be used by KTM, Los Angeles, Calif., until the consolidation of KTM and KELW which is expected soon.

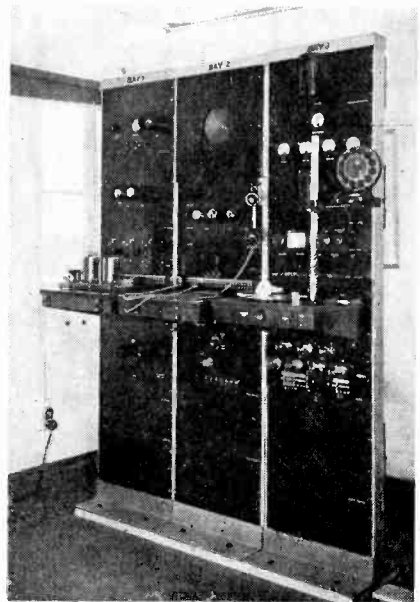
WKJC, Lancaster, Pa., has changed its call to WEST and moved to Easton, Penna.

Construction permits have been granted for new stations at Lakeland and West Palm Beach, Fla. The former is assigned 1310 with 100 watts and the latter 1200 kcs.

Effective January 14th, WKAR, East Lansing, Mich., will move from 1040 to 850 kcs. and change from daytime to specified hours.

The construction permit for new station at San Diego, Calif., has been canceled and the application set for hearing.

(Continued on page 47)



Here is shown the speech input equipment used by the experimental shortwave station 3LR at Melbourne, Australia.

Leaves From A DXer's Scrapbook

••• By COUNT DE VERIES

AS THE winter season progresses, there seems to be no getting away from the fact that the increasing number of all-night stations is becoming a definite menace to DXing.

In the November issue, it was pointed out that the schedules of some eleven stations make it virtually impossible for listeners to hear late programs on as many channels. At the time, we could see nothing but an early death for DXing unless something could be done to curb the energies of the broadcasters with 24-hour tendencies.

Instead of improving, conditions now seem to be worse than ever and an analysis of the situation shows up some rather astounding figures. Station KTM blocks late broadcasts from seven other stations on 780 kcys; WJBW and KGFJ do the same for 35 stations on 1200 kcys; WEDC, 45 on 1210; WNEW, five on 1250; KFAC, nine on 1300; WEXL, 44 on 1310; KRE, 45 on 1370; WSMK, five on 1380; KGIW, 45 on 1420; and WJBK, 34 on 1500.

In other words, a total of eleven privileged stations make it impossible for no less than 274 stations to reach an appreciable audience when so desired. Of course, there are 28 daytime stations on the channels in question, but even they can and do transmit DX and test programs on occasions. Thus, a small 1.8% of the stations in the United States are blocking the channels of 42%.

A few of these stations have shown a willingness to co-operate with DXers. WEDC, for example, is silent on Tuesday mornings, while WEXL does not transmit on Sunday mornings. For these two broadcasters, we have nothing but thanks for giving us a few hours in which

to tune for distant stations. However, the rest of the stations make full use of their unlimited time licenses.

It is conceded that the number of DXers is small when compared with the total of listeners in this country. For this reason, DXers have always been willing to wait until the early hours of the morning to follow their hobby. The stations have been courteous in co-operating with us and we, in turn, have supplied station engineers with valuable information on their transmissions. Everything worked out fine until a few stations got the all-night habit.

Naturally, the first reaction of the DXer is to fight for what he considers his rights. He feels that his privileges as an American citizen are being denied by a selfish few and he will spare no effort in telling the world in general what he thinks of the situation.

A contributor to the bulletin of the Universal Radio DX Club gives a rather "mild" version of a DXer's complaint. "A big problem for the inter-club plan," he writes, "is how to get the 24-hour stations to stand by for DX programs on the crowded channels. As you may know, most of the DX programs are on such as the 1200, 1210, 1310, 1370, 1420 and 1500 channels, and that is also where the 24-hour hogs are. . . . Why not have every member of every club in the inter-club plan write a letter of complaint to the FCC? A form letter should be made, printed in every club bulletin, and used by DXers in writing at the same time. Maybe such action on the part of several thousand DXers would stand the FCC on its head for once. That would be the proper way to shake the hogs for all time. Why should a station have longer hours than from

7:00 AM to 1:00 AM every day? The longer hours should not be allowed more than once a week, and even then only when a program is being dedicated to a DX club and then for not more than an hour in length. Let the inter-club plan make history out of the 1935-36 DX season! Let's get rid of the hogs! Have a slogan: *Through the united action of all DX clubs and DXers, there will be no more channel hogs after this season!*"

It is to be trusted that no DXer will attempt to "stand the FCC on its head for once." The governing body in Washington is not to be bullied by anybody, and our only hope for consideration and possible action in our favor lies in a policy of tact and intelligence.

Despite what we feel to be a justified complaint against the all-night stations, it is necessary to consider their side of the case. Most of these stations have sponsors for their late programs and it would take a considerable degree of persuasion to have them give up this additional revenue. If we were running the stations and, like the broadcaster, were in business to make what money we could, it is likely that we would go after as much income as possible. After all, the station with a late audience in its territory is little concerned with a few thousand listeners scattered about the country.

With this in mind, we must handle the problem in a temperate manner. We cannot demand, but only request. It is a fundamental rule of the F.C.C. that the air is free between midnight and 6:00 AM, when stations may test or put on programs at pleasure. If we ever hope to have this rule modified in our favor, we must carry on our campaign in a thoughtful fashion.

With the proper marshalling of our forces, we may be able to obtain a few silent hours every week from the all-night stations. Beside several thousand DXers in this country, it is necessary to consider the

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stations whose late programs are being blocked by the 24-hour broadcasters. These stations frequently desire a clear channel for a test program and they certainly are in a position to request such an opportunity. If we can secure the support of these stations, we may have the solution to the entire problem.

However, for lone DXers to proceed on their own and attempt to bully station and F.C.C. alike would be foolish as well as fatal. United, we have a certain degree of strength; divided, we have none. Put the matter in the hands of wise leaders and let them carry on in a suitable and temperate manner. This is more than a warning to would-be letter-writers; it is a forecast of success or dismal failure, depending upon how it is handled!

* * *

The latter part of October and the first week or so in November provided a true Cuban invasion of the United States and Canada. With few exceptions, most of the Cuban stations pounded in and well nigh ruined reception in the early evenings.

Probably occasioned by some freak atmospheric condition, just about all that could be heard was the jabber of machine-gun announcers on all but local stations. Actual R9 signals were reported from CMCY on 1035, CMX on 920, CMQ on 840 and CMCF on 815, while R6-8 reception was heard on CMBX, 1380; CMCO, 1110; CMK, 1060; CMCD, 960; CMBZ, 1000; CMBC, 940, CMX, 920; CM CJ, 1200; CMCB, 1230; CMBS, 770; CMBG, 1140; and many others.

One of the "freakiest" nights was that of November 5th. Here in Akron, Cubans were heard to the almost total exclusion of American stations. Old stand-bys such as WCCO, WABC, WEAf and WGN were barely audible, while CMCF, CMQ, CMCY and others were consistent R6-8 signals.

Newspapers of that date featured

stories of the tropical hurricane which was raging over Florida and nearby waters. Could this area of low barometric pressure, located in a line between the Cuban stations on the Central States, have anything to do with this freak reception?

* * *

Probably one of the most agonizing situations in all DXing is to find a needed catch blocked almost completely by a nearby broadcaster. The desired station is just loud enough to permit its call to drift through the interference, yet all program data is lost beyond identification.

You can just sit and listen, straining your ears for something tangible upon which to report. You may catch a few familiar bars of a popular tune, but not enough for positive identification. Occasionally there is a pause in the interfering program and you pray for an announcement from the wanted station, but no such luck.

DXers needing KPLC for their logs must have had such an experience during the November frequency checks. Our old friend WJBK in Detroit was broadcasting another of its all-night nuisance programs. Without regard for the federal tests, they blared away into the night.

While monitors in the South would experience little interference from WJBK on KPLC, how could the northern engineers check on WKBZ and WKBV in the same section?

We were under the impression that all stations were required to keep silent when check programs were scheduled on their channel. If so, WJBK has trod on the toes of the F.C.C. and we're just wondering what will happen now.

Judging from current interest in the recording of radio programs, one would almost believe that this was an entirely new angle in broadcasting. However, such is not the case. Back in the summer of 1916, Charles E. Apgar, an amateur at Westfield,

(Continued on page 36)

Improving the All-Wave Crystal Set

• • • By B. FRANCIS DASHIELL

IN THE October issue of RADEX we discussed the use of a crystal detector and described the construction of a tuning coil. The simple circuit shown is but one of many arrangements that can be devised, but is universally standard. With this set we were able to tune in a number of radiophone and code signals. But it seemed difficult completely to tune out strong, nearby stations, for their signals appeared over a considerable range of the coil.

We, therefore, are anxious to provide this little all-wave crystal set with a tuning system that will keep interference down to a minimum. Selectivity now is the demand of all radio listeners, regardless of whether they use multi-tube sets or the smallest of crystal receivers. Let us, then, study the crystal set with a view toward improving its sensitivity and selectivity.

"Close" Coupling

Our first tuning coil was fitted with two sliders, both of which made contact with the individual turns of wire wound on a tube. One slider tuned the primary portion of the coil; the other tuned the remaining portion, or secondary. Because the primary and secondary sections of the coil were portions of the same winding, we thus created a "closely" coupled tuner. This is a simple arrangement, but it is not the most efficient type of tuner that can be constructed.

If we mechanically separate the primary and secondary sections so there is no electrical connection between them, we can better adjust and control the coupling. Let us remember that "coupling" means the placing of two independent electrical

circuits within one electro-magnetic field so that electrical energy may be transferred from one circuit to the other by induction. (See Chapter 3 of the *Beginner's Story of Radio*). The transformer is an example of a coupled circuit, and our tuner is a simple type of radio-frequency transformer.

"Loose" Coupling

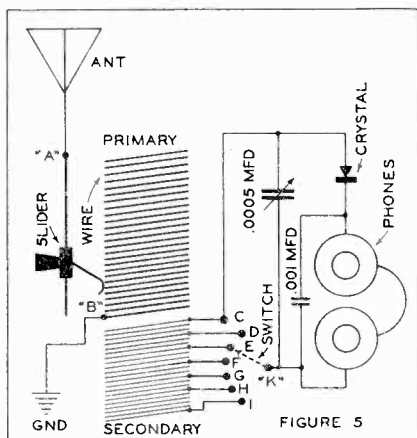
But how shall we separate the primary (indicated in Figure 4, page 6, of the October, 1935, issue of RADEX, between the point "A" and the slider "B") from the secondary (between the slider "C" and point "A")? One simple method is to use a single-slide tuner (shown in Figure 3) with the slider connected only to the ground and not to the telephone set. The detector connection to the antenna end ("A") of the coil should also be removed.

Wrap a few turns of heavy paper, about an inch wide, over the antenna end of the tuning coil. Then wind on about 70 turns of No. 28 or No. 30 wire. Connect the ends of this new coil (which is the secondary) to the crystal detector and phones, and tune with a .0005 mfd. variable condenser. This arrangement is somewhat similar to that shown in Fig. 4, except that we now have a separate secondary which is inductively or "loosely" coupled to the primary coil, without the use of slider "C".

Tuning the Secondary

The transfer of energy from the primary coil (that portion of the winding between the antenna end, "A" in Figure 3, and the contact point of the slider "B") to the separately wound secondary coil, is caused by the magnetic induction of the moving electro-magnetic fields

created in the air immediately surrounding the primary when the weak impulses of radio energy pass down from the antenna. A stronger radio-frequency current then is set up in the secondary. The degree of resonance (tuning) in these two coils may be varied by adding or cutting out turns of wire. This, as we know, has been done in the case of the primary, but so far no provision has been made for varying the number of turns of wire in the secondary coil.



We see, in Figure 5, a diagram of a single-circuit tuning coil. At one end, but directly over a small portion of the primary, is wound the secondary. Since the inductance of the primary is changed by means of the slider, we also desire to vary the secondary so that both coils may be given identical periods or values of resonance to any particular signal. Since the secondary is wound with fine wire it becomes impracticable to vary the number of turns also by means of a slider. So, then, we will find it more convenient to use a switch to break up the long, single winding of the secondary into a consecutive number of groups of smaller inductances.

The Tuning Switch

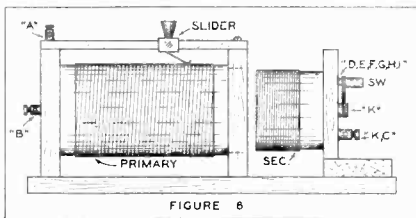
A secondary of 100 turns can be divided into ten sections, each containing ten loops of wire. In this case, wires lead from the points where adjacent sections connect to taps or switch points. Thus, in Fig. 5, we see a secondary coil that is divided into six sections, and having corresponding taps taken off at "D", "E", "F", "G", "H" and "I". Contact "C" is at one end of the secondary, and contact "K" is the other end. When the switch is thrown to "I" all of the secondary is in use and is tuned to the longest waves; and when thrown to "F", for instance, only one half of the coil is in the circuit, which is tuned to shorter waves. The use of a switch also provides a means for remembering and logging stations which is not the case with the slider unless the slider rod is notched and marked at regular intervals.

But this method of tuning primary and secondary circuits does not provide as much selectivity as we desire. Any change in adjustment of both primary and secondary affects coupling and resonance between the two circuits. Now, if we vary the coupling by changing at will the degree of electro-magnetic coupling between the coils, the tuning will become more selective. This is accomplished merely by varying the distance between the primary and secondary coils, or changing their angular relationship by rotating the secondary coil.

Loosely Coupled Tuner

If we change the distance between the coils, as illustrated in Fig. 6, we "loosen" the coupling. The coupling between primary and secondary may be continuously varied at will; also, the number of turns on either coil can be changed by means of the slider and switch. In this case the secondary is arranged so as to telescope within the primary. The coup-

ling is "close" when the secondary is completely within the primary; it is "loose" when withdrawn from the primary. Close coupling provides broader tuning with less selectivity, because maximum signal intensity is induced in the secondary. The looser the coupling the greater the selectivity, but, of course, signal strength will be slightly reduced. The tuner shown in Fig. 6, is called a loose coupler and this form of tuning was popular in the earlier days of wireless. It is now too complicated to use in all the stages of a multi-tube receiver, but such tuners are interesting and quite efficient, particularly in a crystal set.



The primary of the coupler shown in Fig. 6, is wound with No. 24 wire on a cylindrical cardboard tube or oatmeal box. A slider is arranged along the top of the tuner. The tube is supported between two end blocks, one of which has a circular opening cut in it. One end of the primary tube fits snugly into this opening.

Movable Secondary Coil

Another tube, about 3 inches long and having a diameter that will permit it to pass within the primary tube, should be wound with 100 turns of No. 28 or No. 30 wire. Taps are taken off at every ten turns. Each tap then goes to a point of a 10-contact tuning switch that is mounted on the end block which supports the secondary coil. This end block should be fastened to a movable base so the secondary can slide in and out of the primary when ad-

justing the coupling while tuning a station.

The switch adjusts the inductance of the secondary; a single section of the coil responding to the shortest waves, and the entire series of ten groups responding to the longest waves. Sharper tuning is accomplished by means of the .0005 mfd. variable condenser shunted across the two outside terminals ("C" and "K") of the secondary, as shown in Figs. 5 and 6. The coupling is loosened by pulling the secondary out of the primary, but the exact setting is determined by listening to the signal while tuning. The slider on the primary and the switch on the secondary should be adjusted until the tuning seems best, then the final tuning is accomplished by the condenser.

Amplifying Crystal Signals

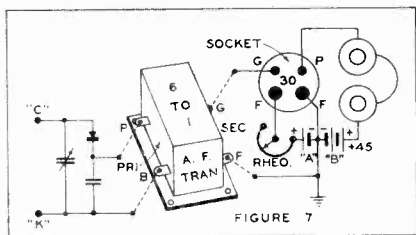
Signals heard on a crystal set, even when the tuning is the best, are never very strong. Only the power of the original antenna current is available; there is no amplification of the signal in any way. However, the tone is excellent and natural. So, if we can provide for the amplification of these clear tones, so as to give good response in a loud speaker, we will find that very weak signals, which hardly affect the telephone diaphragms, become readily audible.

In the early days of wireless nearly every experimenter brought on a nervous breakdown while trying to devise some way of increasing audibility. But there was no success until the electron tube was devised. It is now practicable and advisable to amplify crystal detected signals by means of radio tubes, and the operation is simple and inexpensive.

With a Transformer

In the circuit shown in Figure 5 it is necessary only to substitute the primary winding of an audio-frequency transformer for the telephone headset. The rectified current from the crystal detector is made to flow through the primary of the

transformer instead of the headset. The two terminals of the primary coil of any audio transformer usually have such standard designations as "P" (plate) and "B" (battery). Transformers have amplification proportions or ratios generally ranging from 2 to 1 on up to 8 to 1. Transformers of 3:1 and 6:1 ratios are found mostly in use.



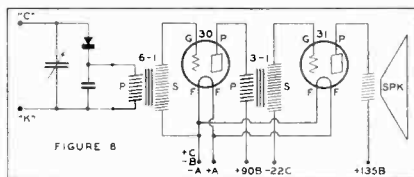
The secondary of such a transformer is connected to a 4-contact tube socket, as shown in Figure 7. The "G" terminal of the secondary is connected to "G" or the grid contact of the socket; the remaining terminal of the secondary ("P") is attached to the -A or the "F" (filament) contact of the socket. A head phone set or small magnetic loud speaker is placed in series between "P" (plate) of the socket and a 45 to 90-volt "B" battery. A type 2-volt tube (-30) is placed in this socket, with two dry cells in series used to light the filament. A 30-ohm rheostat must be utilized to reduce the voltage to the proper potential as well as for volume control.

Still Greater Amplification

Should the volume obtained in the phones or speaker still be weak, it is practicable to add one more stage of audio amplification, as shown in Figure 8. In this circuit we see a 6:1 audio-frequency transformer added immediately after the crystal detector, with its secondary feeding the grid of a type -30 tube. The plate of this circuit passes through the primary winding of a second a.f.

transformer having a lower ratio—about 3:1. The secondary output of this second transformer feeds into a second tube, and as this tube must handle greater power we will find it best to use a type -31 power output tube.

The filaments of the two tubes are connected in parallel to the dry cells, using the rheostat to control voltage and volume. The plate of the first tube is connected to a 45 to 90-volt "B" battery through the primary of the first a.f. transformer, while the plate of the second tube connects to a 135-volt "B" battery through the loud speaker. The second tube, however, because of its considerable plate potential, requires a high negative bias on its grid, and this is provided by means of a -22½-volt "C" battery. A wire to ground from the common "-A" and "-B" battery connection may be necessary.



(The next article, which will appear in an early issue, will show how to substitute a tube for the crystal detector. This will improve sensitivity and increase the range.)

The DXer's Scrapbook

(Continued from page 32)

N. J., recorded transmissions of the German station at Sayville. This gave the government evidence to take over what had supposedly been a neutrality-observing station during the War.

* * *

Often wonder how other DXers

manage to kill time between stations on an early-morning jaunt along the air lanes. Barring those fortunate few whose entire efforts are devoted to logging one needed station after another, most of us have great gobs of time on our hands and it is often quite a problem to keep our minds occupied.

Some DXers read a book while tuning and often become so absorbed that announcements, selections and even whole stations are missed. Solitaire is an excellent means of passing time, but unfortunately that requires two hands and is hardly conducive to extensive dial twisting.

At least one listener spends some of his time jotting down notes for a section like this, which probably accounts for its lack of interest.

However, a tabulation of time-passing devices used by DXers should produce innovations which could be rivalled only by the boondogglers.

Night Life

(Continued from page 15)

present. Another way of considering the third clause is that the deleted station is no longer available for reception and should not be erased. A stamp collector does not throw away a stamp which is out of use and no penalty should be imposed on a DXer just because he happened to be DXing years ago.

"I agree with Mr. Spies that combinations such as WFLA-WSUN should be counted as just one station. Only one transmitter is used and it is no more credit to log both calls than to hear a single-call broadcaster twice.

"I don't suppose that everybody will agree with these suggestions, so let's hear the differences of opinion supported by some reasoning. Perhaps these points can be modified to present a uniform system of logging stations for everyone."

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WHAT'S ON THE AIR TONIGHT

Fill in calls and dial numbers for those stations through which you best receive the three chains. You can then turn quickly to the one that has the feature you want.

COLUMBIA (C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

TIME: E Eastern; C Central; M Mountain; P Pacific

RADEX is the only publication listing stations in alphabetical order for your convenience.

While these programs are correct at the time of going to press, changes are made from time to time.

MONDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Buck Rogers 25th Century
WAAB WABC WCAU WFBL WHK WJAS WJR WJSV WKBW WOKO

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Bobby Benson — Sunny Jim
WAAB WABC WCAU WDRG WEAN WFBL WGR WHCC WOKO

E-6:45 p.m., C-5:45, M-4:45, P-3:45

B — Lowell Thomas
CRCT KDKA WBAL WBZ WBZA WFLA WIOD WJAX WJZ WLW WMLA WOOD WRVA WSYR WTAM WXYZ

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Myrt and Marge
WABC WADC WBT WCAO WCAU WDAE WDBO WDRG WEAN WFBL WGR WHK WJAS WJR WJSV WKRC WNAC WOKO WQAM WSPD WTOG WYVA

R — Amos 'n' Andy

CRCT KSD KYW WBNB WCAE WCHS WEAF WEEL WFBR WGY WJAR WLW WTAC WTAM WYVA

E-7:15 p.m., C-6:15, M-5:15, P-4:15

C — Vocals by Verrill
CFRB CKAC KFII KGKO KLRA KLZ KMBC KOMA KSCJ KTRH KTSR KVOR KWKH WAAB WABC WALA WBT WCAO WCCO WDAE WDBJ WDBO WDNC WDOE WEAN WFRM WFEA WGR WGST WHEC WIBW WICC WISN WJR WKBN WLAC WLWB WMAS WMBG WMBR WNOX WOKO WORC WQAM WREC WSBT WJAS WSPD WTOG

R — Uncle Ezra's Radio Station

KYW WBNB WCAE WCHS WDAF WEAF WEEL WFBR WGY WJAX WJZ WJAS WJR WMAQ WOV WRC WSAI WTAC WTAM

E — Ivory Stamp Club

KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WJZ WMLA WMT WSYR WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C — Singing Sam
KPAB KMOX KRNT WABC WADC

WBWM WCAO WCAU WCCO WDRG WEAN WFBL WFBM WGR WHAS WHK WJAS WJR WJSV WKRC WNAC WOKO WSPD

B — Lum and Abner

WBZ WBZA WENR WGAR WJZ WLW WSYR

E-7:45 p.m., C-6:45, M-5:45, P-4:45

C — Boake Carter
KMBC KMOX KOMA KRLD WABC WBMM WBT WCAO WCAU WCCO WDRG WEAN WFBL WGR WHAS WHK WJAS WJR WJSV WKRC WNAC

B — Dangerous Paradise

KDKA KOIL KSO KTBS WAVE WBAL WBZ WBZA WENR WJDX WJZ WLW WMLA WMC WREN WSB WSMB WSYR

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Guy Lombardo and Orchestra
KLRA KWKH WABC WBIG WBT WCAO WCAU WCHS WCSB WDBJ WDNC WDOE WDRG WEAN WFBC WFBL WGR WHEC WHIP WJAX WJAS WJSV WLAC WLHJ WMAS WMBG WNAC WNBFWNOX WOKO WORC WPG WREC WSJS WVL WYVA

R — Hammerstein's Music Hall

KSD KYW WBNB WCAE WCHS WDAF WEAF WEEL WFBR WGY WJAX WJZ WJAS WJR WMAQ WOV WRC WSAI WTAC WTAM WYVA

B — Fibber McGee and Molly

KDKA KDYL KFI KFSD KFYR KGW KHQ KOA KOIL KOMO KPO KPRC KSO KSTP KTBS KVOO WAVE WBAL WBZ WBZA WCKY WDAY WEBC WFAA WFIL WGAR WHAM WIBA WIRE WJDX WJZ WJY WLS WMLA WMC WMT WOI WREN WSB WSM WSMB WSYR WTMJ WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Pick and Pat
KFAB KMBC KMOX KRNT KSCJ WABC WADC WBNB WCAO WCAU WDRG WEAN WFBL WFBM WGR WGST WHAS WHEC WHK WJAS WJR WJSV WKRC WMAS WNAC WOKO WORC WSPD

R — Voice of Firestone

CFCE CRCT KFYR KPBC KSD KSTP KTBS KVOO KYW WAVE WBNB WCAE WCHS WDAF WDAY WEAF WEBC WEEL WFAA WFBR WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WJZ WKY WMAQ WMC WOI WOV WPTF WRC WRVA WSB WSM WSMB WSOE WTAC WTAM WTAR WYVA WYVA WYVA WYVA

B — Evening in Paris

KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WFIL WGAR WHAM WJZ WLS WMLA WMT WREN WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Lux Radio Theatre

CFRB CKAC KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMON KOIN KOL KOMA KRLD KRNT KSL KTRH KTSR KTUL KVI KWG WAHC WADC WBBM WBNB WBRB WBT WCAO WCAU WCCO WDAE WDBJ WDRG WEAN WFBL WFBM WGST WHAS WHEC WHK WICC WISN WJAS WJR WJSV WKBW WKRC WLDK WNAC WNAZ WNOX WOKO WQAM WREC WSPD WYVA

R — A. & P. Gypsies

KDKA KDYL KFYR KOA KOIL KPRC KSO KSTP KTBS KTHS KVOO KWK WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMLA WMC WMT WOI WPTF WREN WRVA WSB WSM WSMB WSOE WSYR WTMJ WYVA WYVA

B — Sinclair Greater Minstrels

KDKA KDYL KFYR KOA KOIL KPRC KSO KSTP KTBS KTHS KVOO KWK WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMLA WMC WMT WOI WPTF WREN WRVA WSB WSM WSMB WSOE WSYR WTMJ WYVA WYVA

E-9:30 p.m., C-8:30, M-7:30, P-6:30

R — Grace Moore

KDYL KFI KFSD KFYR KGHL KGR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBNB WCAE WCHS WDAF WDAY WEAF WEBC

MONDAY (Continued)

WEEL WFBF WFLA WGY WHO
WHIO WHA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOA1 WOV WPTF
WRC WRVA WSB WSM WSMB
WSOC WTG WTAM WTAR WTIC
WTMJ WJW WWNC

B — Princess Pat Players

KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

C — Wayne King and Orchestra

KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KSL KVI
KWG WAAB WABC WADC WBBM
WBNS WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WHAS WHK
WIBW WJAS WJR WJSV WKBW
WKRC WOKO WSPD WWL

R — Contanted Program

CFCF CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYW
WHEN WCAE WCSH WDAF WFAF
WEEL WFBF WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOA1 WOV WPTF
WRC WRVA WSA1 WSB WSM
WTAG WTAM WTAR WTIC WJW
WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — March of Time

KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WADC
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGST WHAS
WHK WJAS WJR WJSV WKBW
WKRC WNAC WOKO WSPD WWL

B — Armco Iron Master Program

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Dance Orchestra

CFRB CKAC WAAB WABC WADC
WCAO WCAU WDRC WFBL WPEA
WHEC WHK WIBX WJAS WKBN
WKBW WLZB WMAS WOKO WORC
WPG WSBT WSPD

C — Myrt and Marge

KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KSL KTRH KVI KWG WALA
WBMM WBRC WCCO WFBM WGST
WHAS WLAC WREC WSFA WWL

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTHS WBAF
WDAF WHO WKY WMAQ WMC
WOAT WOV WSB WSM WSMB

E-11:15 p.m., C-10:15, M-9:15, P-8:15

C — Singing Sam

KDB KERN KFBK KFPY KFRK
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Dance Orchestra

CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDO
WDNC WDOD WDRC WEAN WFBL

WFBM WPEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBN WKBW WKRC WLAC
WLZB WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Pick and Pat

KDB KERN KFBK KFPY KFRK
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

R — Voice of Firestone

KDYL KFI KFSB KGHL KGIR KGU
KGW KHQ KOA KOMO KPO KTR

E-12:00p.m., C-11:00, M-10:00, P-9:00

B — Helen Hayes; Drama

KDYL KFI KGW KHQ KOA KOMO
KPO

TUESDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Buck Rogers, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Benay Venuta

KFH KGKO KLRA KLZ KMBC
KOMA KRLL KSCJ KTRH KTSK
KVOR KWKH WAAB WABC WACO
WALA WBMM WBIG WBRW WCAO
WCAU WDAE WDBJ WDBO WDNC
WDOD WDRC WESG WFBL WFBM
WFEA WGR WGST WHEC WIBX
WJR WKBN WLAC WLZB WMAS
WMBD WMBG WMBR WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC WWL

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C — Understanding Opera

KLRA WABC WADC WALA WBIG
WBRW WCAO WDAE WDBJ WDBO
WDNC WDOD WFBL WGBT WIBX
WJSV WKBN WLAC WLZB WMAS
WNOX WORC WQAM WREC WSJS
WSPD

E-6:45 p.m., C-5:45, M-4:45, P-3:45

B — Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WJZ WMAL WMT
WSYR WXYZ

E-7:15 p.m., C-6:15, M-5:15, P-4:15

R — Popeye, The Sailor

KFYR KSD KSTP KYW WENR
WCAE WCSH WDAF WDAY WEAF
WEEI WEEI WFBF WGY WHO
WIBX WIRE WJAR WMAQ WOV
WRC WSA1 WTAG WTAM WWJ

C — Schulte Smoker; Rubie Goldberg

WABC WBBM WCAO WCAU WDRC
WEAN WFBL WHEC WHK WHC
WJAS WJSV WMAS WNAC WOKO
WORC

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C — Kate Smith

KFAB KMBC KMOX KRLL KRNT
KTRH WABC WADC WBBM WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDRC WEAN WFBL WFBM
WGR WGST WHAS WHK WISN
WJAS WJR WJSV WKBN WKRC
WLZB WMAS WMBG WMBR WNAC
WOKO WWL WWVA

B — Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45

C — Boake Carter, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Frank Munn; Lucy Monroe

KFAB KMBC KMOX KRNT WABC
WADC WBBM WCAO WCAU WDRC
WEAN WFBL WFBM WGR WHAS
WHK WJAS WJR WJSV WKRC
WNAC WOKO WSPD

R — Leo Reisman and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAF WBNR
WCAE WCSH WDAF WDAY WFAF
WEEB WEEI WFBF WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOA1 WOV WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

B — Eno Crime Clues

KDKA KOIL KSO WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Lawrence Tibbett

CFRB CRCM KDB KERN KFAB
KFBK KFI KFPY KFRK KGB
KGKO KHJ KLRA KLZ KMBC KMJ
KMOX KOI KOIN KOL KOMA
KRLL KRNT KVCJ KSL KTRH
KTSK KTUL KVI KVOJ KWG
KWKH WABC WACO WADC WALA
WBIG WBNS WBRW WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WGR WGST WHAS
WHEC WHK WIIP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKRC WLAC WMAS WMBG
WMBR WNAC WNAX WNOX WOC
WOKO WORC WQAM WREC WSFA
WSJS WSPD WTOC WWL

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAF WBNR
WCAE WCSH WDAF WDAY WFAF
WEEI WGY WHO WIBA WIRE
WJAR WJDX WKY WMAQ WMC
WOAI WOV WRC WSA1 WSB WSMB
WTAG WTAM WTAR WTIC WTMJ
WWJ

B — Edgar Guest, Welcome Valley

KDKA KOIL KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Walter O'Keefe; Glen Gray

KFAB KFI KGKO KLRA KMBC
KMOX KOMA KRLL KRNT KSCJ
KTRH KTSK KTUL KWKH WABC
WACO WADC WALA WBMM WBIG
WBNS WBRW WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJR WJSV WKBN WKBW WKRC
WLAC WLZB WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WOVO WPG WQAM WREC
WSBT WSFA WSJS WSPD WTOC
WWL

R — N. T. G. and His Girls

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KYW WAVE WENR
WCAE WCSH WFAF WEEI WFBF
WGY WHO WHIO WIRE WJAR

TUESDAY (Continued)

WJDX WMAQ WMC WOW WRC
WSAI WSB WSM WSMB WTAG
WTAM WVIC WWJ

B — Ben Bernie and Orchestra

KDKA KOIL KPRC KSO KTBS
KTHS KVOO KWK WBAL WBZ
WBZ WBZA WFIL WFLA WGAR
WHAM WIOD WIS WJAX WJZ WKY
WLS WLW WMAL WMT WOAI
WPTF WRN WRVA WSOC WSYR
WTAR WUNC WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

C — Fred Waring's Pennsylvanians
CFRB CKAC KEAB KFH KGKO
KLRA KLZ KMBC KMOX KRCO
KOMA KRLD KSCJ KSL KTRH
KTSR KTUL KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WCSC WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBN WFPA WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKBW WKRC WLAC
WLBZ WMAS WMBD WMBR WNAC
WNAX WNBW WNOX WOC WOKO
WORC WOWO WPG WQAM WREC
WSBT WSFA WSJS WSPD WTOG
WWL

R — Jumbo-Fire Chief Show

KDYL KFI KFSD KFYR KGHIL
KGIR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTRR KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFBR WFLA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB WSM
WSMB WSMC WTAG WTAM WTAR
WVIC WTMJ WWJ WUNC

B — Helen Hayes, Drama

KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WRN
WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

R — Swift Studio Party
CRCT KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP KTBS
KTHS KYW WBAP WBAE WCAE
WCSH WDAF WDAY WFAE WBEC
WEEL WFBR WGY WHO WHIO
WIBA WJAR WKY WLW WMAQ
WOAI WOW WRC WTAG WTAM
WVIC WTMJ WWJ

B — Wendell Hall

CFBC KDKA KOIL KSO KWK
WBAL WBZ WBZA WCKY WENR
WFIL WGAR WHAM WIRE WJZ
WMAL WMT WOOD WREN WSYR
WXYZ

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — March of Time, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Dance Orchestra
CKAC WAAB WABC WADC WCAO
WCAU WDRC WFBL WFEA WHCC
WHK WIBX WJAS WJSV WKBW
WLBZ WMAS WOKO WORC WSBT
WSPD

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Dance Orchestra
CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBBM WBNS
WBRC WBT WCAU WCCO WDAE
WDBJ WDBO WDNC WDDO WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHCC WHK WHX WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLZB WMAS WMBD
WMBG WMBR WNAX WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSNK WSPD WTOG

C — Walter O'Keefe; Glen Gray

KDB KERN KFBK KITY KFRC
KGB KHJ KLZ KMJ KOH KOIN
KOL KSL KVI KVOR KWG

R — Leo Reisman and Orchestra

KDYL KFI KFSD KGHIL KGRH
KGW KHQ KOA KOMO KPO KTRR

E-12:00 p.m., C-11:00, M-10:00, P-9:00

C — Fred Waring's Pennsylvanians
KDB KERN KFBK KFPY KFRC
KGB KHJ KMJ KOH KOIN KOL
KVI KWG

WEDNESDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Buck Rogers, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Bobby Benson, See Monday

E-6:45 p.m., C-5:45, M-4:45, P-3:45

B — Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15

C — Imperial Hawaiian Band
KFAB KMOX KRNT WABC WADC
WBBM WCAO WCAU WDRC WEAN
WFBL WFBM WGR WHK WJAS
WJSV WKRC WNAC WOKO WSPD

R — Uncle Ezra, See Monday

B — Ivory Stamp Club, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C — Kate Smith, See Tuesday

B — Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45

C — Boake Carter, See Monday

B — Dangerous Paradise, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Cavalcade of America
KDB KERN KFBK KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WACO
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRK WLAC WMBG WNAC
WOKO WSPD WWL

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTRR KTBS KVOO KYW WAVE
WBAE WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFAA WFBR
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WVIC WTMJ WWJ WUNC

B — Rendezvous; Phil Ducey

CRCT KDKA KOIL KSO KWK
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WJZ WLW WMAL
WMT WREN WSYR WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Burns and Allen

CFRB CKAC KFAB KFH KLKA
KMBC KMOR KOMA KRLD KRNT
KNCJ KTRH KTSR KTUL KWKH
WABG WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WJAS WJR WJSV WKRC
WLAC WLZB WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WWL

R — Wayne King, See Tuesday

B — House of Glass

KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WFIL WFLA WGAR
WHAM WHIO WIOD WIS WJAX
WJZ WLS WMAL WMT WPTF
WREN WRVA WSOC WSYR WTAR
WUNC WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Chesterfield Program

KDB KERN KFBK KFBK KFH
KFPY KFRC KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ KMOR
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSR
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLZB
WMAS WMBD WMBG WMBR
WNAC WNAX WNBW WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSFA WSJS WSPD WTOG
WWL

R — Town Hall; Fred Allen

KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEL WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC WSB
WSM WSMB WSOC WTAG WTAM
WTAR WVIC WTMJ WWJ WUNC

B — John Charles Thomas

KDKA KOIL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WFIL WGAR
WHAM WIRE WJZ WLW WMAL
WMT WREN WSYR WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

C — Ray Noble and Orchestra

CFRB KFBK KERN KFBK KFBK
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOR KOH
KOL KOIN KOMA KRLD KRNT
KSCJ KSL KTRH KTSR KTUL KVI
KWG KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDBO WDDO WDCO
WDEAN WFBL WFBM WFEA WGST
WHAS WHCC WHK WHP WIBW
WIBX WICC WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLZB
WMBD WMBG WMBR WNAC

Wednesday (Continued)

WNOX WOC WOKO WORC WOWO
WPG WQAM WREC WSPA WSPD
WTOC WWL

B—Warden Lawes, Sing-Sing Drama
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WCKY WENR WFIL WGR WHAM
WIRE WJZ WMAL WMT WREN
WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

C—On the Air with Lud Gluskin
CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLL
KSCJ KTRH KTSa KVOR KWKH
WABC WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHFC WHK
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

R—Log Cabin Revue

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTBS KTHS KYW
WBEN WCAE WCHS WDAF WFAF
WEEI WFAA WFBR WGY WHIO
WJAR WKY WMAQ WOAI WOW
WRC WSAI WTG WTAM WTIC
WWJ

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C—March of Time, See Monday

B—Jimmy Fidler; Hollywood Gossip
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KPRC KSO KTBS
KTHS KWK WBAL WBZ WBZA
WCKY WENR WFAA WFIL WGAR
WHAM WJZ WKY WMAL WMT
WOAI WREN WSYR WXYZ

E-10:45 p.m., C-9:45, M-8:45, P-7:45

C—John Hale, Tenor

CFRB CKAC KFH KGKO KLRA
KMBC KMOX KSCJ KTRH KTSa
KVOR KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRC WFBL
WFBM WFEA WGR WHAS WHFC
WHK WIBW WIBX WICC WJAS
WJSV WKRC WLAC WLBC WMAS
WMBD WMBR WNOX WOC WOKO
WORC WPG WQAM WREC WSJS
WSMK WSPD

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C—Myrt and Marge, See Monday

R—Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C—Dance Orchestra

CFRB CKAC KLRA WAAB WABC WADC
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOD
WDRS WEAN WFBL WFBM WFEA
WGST WHAS WHFC WHK WICC
WJAS WJR WJSV WKBW WKRC
WLAC WLBC WMBG WMBR WNOX
WOKO WORC WQAM WREC WSPD
WTOC

C—Burns and Allen

KDB KERN KFBK KFPY KFRS
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KYOR KWG

B—House of Glass

KDYL KFI KFYR KOA KOMO KPO

KPRC KTBS WAPI WAVE WBAP
WDAY WIBA WIRE WJDX WYB
WMC WOAI WSB WSM WSMR
WTMJ

E-12:00 p.m., C-11:00, M-10:00, P-9:00

R—Town Hall; Fred Allen
KDYL KFI KGW KHQ KOA KOMO
KPO

THURSDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C—Buck Rogers, See Monday

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C—Dance Orchestra

KLRA WAAB WABC WADC WALA
WBIG WBRC WCAO WDAE WDBJ
WDBO WDNC WODD WFBL WGST
WHBS WIBX WJSV WLAC WLZ
WMAS WORC WQAM WREC WSJS
WSPD

E-6:45 p.m., C-5:45, M-4:45, P-3:45

B—Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C—Myrt and Marge, See Monday

R—Amos 'n' Andy, See Monday

B—Easy Aces, See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15

R—Popeye, See Tuesday

C—Schulte Smoker, See Tuesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C—Kate Smith, See Tuesday

B—Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45

C—Boake Carter, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C—Harv and Esther

KFAB KMBC KMOX KRNT WABC
WADC WBBM WBNS WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGR WHAS WHK WJAS WJR WJSV
WKRC WMAS WNAC WOKO WSPD

R—Rudy Vallee's Variety Hour

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEN WCAE
WCHS WDAF WDAY WFAF WFCB
WEEI WFBR WGY WHO WJAR
WLW WMAQ WOW WRC WTG
WTAM WTIC WTMJ WWJ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C—Walter O'Keefe, See Tuesday

R—Maxwell House Show Boat

KDYL KFI KFSB KFYR GHLL
KGR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBAP WBEN
WCAE WCHS WDAF WDAY WFAF
WFCB WEEI WFBR WFLA WGY
WHO WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

B—Death Valley Days

KDKA KOIL KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

C—To Arms for Peace

KDB KERN KFBK KFBK KFH
KFPY KFRS KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA

KRLD KRNT KSL KTRH KTSa
KVI KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGST WHAS WHFC
WHK WHIP WISN WJAS WJR WJSV
WKBW WKRC WLAC WMBG
WMBR WNAC WOKO WOWO WREC
WSPD WTOC WWL

E-10:00 p.m., C-9:00, M-8:00, P-7:00

C—Horace Heidt and Orchestra

KDB KERN KFBK KFBK KFH
KFPY KFRS KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH KTSa
KTUL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDBO WDRC WFBL WFBM
WGST WHAS WHK WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMBG WNAC WNAX WOC WOKO
WQAM WREC WWL

R—Paul Whiteman's Music Hall

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KYW WAVE WBAP WBEN
WCAE WCHS WDAF WDAY WFAF
WFCB WEEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C—March of Time, See Monday

E-10:45 p.m., C-9:45, M-8:45, P-7:45

C—Harold Nicolson, News Exchange

CFRB CKAC KFH KGKO KHJ
KLRA KMOX KRLD KRNT KSCJ
KTRH KTSa KVOR KWKH WABC
WACO WADC WALA WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDOD
WDRS WFBL WFBM WFEA WGR
WHAS WHFC WHK WIBW WIBX
WICC WISN WJAS WKBW WKRC
WLAC WLBC WMAS WMBD WMBR
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C—Dance Orchestra

WAAB WABC WADC WCAO WCAU
WFBL WHK WHB WJSV WKBW
WLBW WLBC WMAS WOKO WORC
WPG WSBT WSPD

C—Myrt and Marge, See Monday

R—Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C—Dance Orchestra

CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDOD WDRS WEAN WFBL
WFBM WFEA WGST WHAS WHFC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLBC WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C—Walter O'Keefe, See Tuesday

FRIDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C—Kaltenborn Edits News

KFH KGKO KLRA KLZ KMBC
KMOX KOMA KRLD KSCJ KSL

FRIDAY (Continued)

KTRH K7SA KVOR KWKH WAAB
WABC WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WDAE WDBJ WDDO WDNC WDDO
WFBL WFBM WGST WHFC WHK
WISN WJAS WJVS WKBW WLAC
WLBB WMHR WNOX WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Bobby Benson, See Monday

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge, See Monday
R — Amos 'n' Andy, See Monday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Lazy Dan, Minstrel Man
CKAC KFAB KMOX KOMA KRNT
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WMAS WMBG WNAC
WOKO WSPD WWL

R — Uncle Ezra, See Monday

B — Ivory Stamp Club, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
B — Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, See Monday

B — Dangerous Paradise, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Flying Red Horse Tavern
KFAB KFH KMBC KMOX KRNT
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WGR WHAS WHFC WHK
WIBW WICC WJAS WJR WJSV
WKRC WLBB WMAS WMBD WNAC
WOC WOKO WORC WSPD

R — Cities Service Contest
CRCT KOA KPRC KSD KSTP KTBS
KTHS KYW WBEN WCAE WCSI
WDAF WFAF WIBC WEEI WFAA
WFBR WGY WHO WHIO WIOD
WJAR WKY WMAQ WQAI WOW
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Irene Rich; Drama
KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KTAR KWK WAVE
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WIRE WJZ WLS
WMAL WMC WMT WREN WSB
WSM WSYR WXYZ

E-8:15 p.m., C-7:15, M-6:15, P-5:15
B — Bob Crosby and Orchestra

KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WFIL WGAR WHAM
WJZ WLS WMAL WMT WREN
WSYR WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Broadway Varieties

KDB KERN KFAB KFBC KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WGR WGST WHAS WHK
WJAS WJR WJSV WKRC WMAS
WMBG WNAC WOKO WSPD WWL

B — Red Nichols and Orchestra
KDKA KDYL KFI KFSB KGW KHQ
KOIL KOMO KPO KSO KTAR KWK
WBAL WBZ WBZA WFIL WGAR
WHAM WJZ WLS WLW WMAL
WMT WREN WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Hollywood Hotel
CFRB CKAC KIB KERN KFAB
KFBC KFH KFPY KPRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH K7SA KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WFAA
WGST WHAS WHFC WHK WHP
WIBW WIBX WICC WJAS WJR.
WJVS WKBW WKRC WLAC WLBB
WMAS WMBD WMBG WMBR
WNAC WNAX WNOXWOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munn; Vivienne Segal
KSD KYW WBEN WCAE WCSI
WDAF WFAF WEEI WFBR WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — Palmolive Beauty Box Theatre
CFBC KDKA KFVR KOIL KPRC
KSO KSTP KTBS KWK WAPI
WAVE WBAL WBZ WBZA WCKY
WDAY WEBC WENR WFAA WFIL
WFLA WGAR WHAM WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WLS WMAL WMC WMT WQAI
WPTF WREN WRVA WSB WSM
WSMB WSOE WSYR WTAR WTMJ
WWNC WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

R — True Story Court
KDYL KFI KFSB KGW KOA KOMO
KPO KSD KTAR KYW WBEN
WCAE WCSI WFAF WEEI WFBR
WGY WHO WHIO WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

C — Richard Himber and Orchestra
KFAB KFH KLZ KMBC KMOX
KOMA KRLD KRNT KSL KTRH
K7SA KTUL WAAB WABC WADC
WBBM WBNS WCAO WCAU WCCO
WDBJ WDRC WFBL WFBM WGST
WHAS WHK WIBX WJAS WJR
WJSV WKBW WKRC WOKO WORC
WSBT WSPD

R — Compana's First Nighter
KDYL KFI KFSB KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KVVO KYW WBEN WCAE
WCSI WDAF WFAF WIBC WEEI
WFBR WGY WHO WHIO WJAR
WMAQ WMC WQAI WOW WRC
WRVA WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WWTG

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — March of Time. See Monday

R — Mills Brothers; Art Kassel
KDYL KFI KFVR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP KTBS
KTHS KVVO KYW WAVE WBEN
WCAE WCSI WDAF WDAY WFAF
WIBC WEEI WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS
WJAR WJAX WJDX WKY WMAQ
WMC WQAI WOW WPTF WRC
WRVA WSAI WSB WSMB WSOE

WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

E-10:45 p.m., C-9:45, M-8:45, P-7:45

C — Mary Eastman, Soprano
CFRB CKAC KFH KGKO KLRA
KMBC KRNT KSCJ KTRH K7SA
KVOR KWKH WAAB WABC WACO
WADC WALA WBIG WBNS WBT
WCAO WDAE WDBJ WDBO WDNC
WDDO WDRC WFBL WFAA WGR
WHFC WHK WIBW WIBX WIC
WISN WJAS WJVS WKRC WLAC
WLBB WMAS WMBD WMBR WNOX
WOC WOKO WPG WQAM WREC
WSJS WSMK WSPD WTOC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15

C — Dance Orchestra
CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDDO WDRC WFBL
WFAA WGST WHFC WHK WIBX
WISN WJAS WJR WKBW WLAC
WLBB WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSMK WSPD WTOC

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Dance Orchestra
CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDDO WDRC WEAN WFBL
WFBM WFAA WGST WHAS WHFC
WHK WIBX WICC WJAS WJR WJSV
WKBW WKRC WLAC WLBB WMAS
WMBG WMBR WNOX WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

B — Palmolive Beauty Box Theatre
KDYL KFI KFSB KGHL KGIR
KGW KHQ KOA KOMO KPO KTAR
WLW

SATURDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Frederic William Wile
KFH KGKO KLRA KLZ KMBC
KMOX KOMA KRLD KSCJ KSL
KTRH K7SA KVOR KWKH WAAB
WABC WACO WADC WALA WBBM
WBIG WBRC WBT WCAO WBBM
WDAE WDBJ WDBO WDNC WDDO
WDSG WFBL WFBM WGST WHFC
WHK WIBW WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLBB WMAS WMBR WNOX WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C — Three Little Words
CFRB KFH KGKO KLRA KLZ
KMBC KMOX KOMA KRLD KSCJ
KTRH KVOR KWKH WAAB WABC
WACO WADC WALA WBBM WBIG
WBRC WCAO WCAU WDAE WDBJ
WDBO WDNC WDDO WDRC WESG
WFBL WFBM WFAA WGST WHFC
WHK WIBW WIBX WICC WISN
WJR WJSV WKBW WLAC WLBB
WMAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WQAM
WREC WSBT WSJS WSMK WSPD
WTOC WWL

SATURDAY (Continued)

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Atlantic Family; Frank Parker
WABC WCAO WCAU WCBG WBNS WBRE
WBT WCAO WCAU WCBG WDAE
WDBJ WDBO WDRG WEAN WFBG
WFBL WGBI WGR WGST WHEC
WHK WHP WIBX WICC WJAS
WMA5 WMBG WMBR WNBC
WNBW WOKO WORC WORC WQAM
WRAX WSJS WTOG WWVA

R — Old Gold Sport Page

KDYL KFYR KOA KPRC KSD
KSTP KTBS KYW WAPI WAVE
WBAP WBEW WCAE WCSH WDAF
WDAY WEAF WEBC WEEI WFRB
WFLA WGY WHIO WHIO WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAM WTAM
WTAR WTIC WWJ WWNC

E-7:15 p.m., C-6:15, M-5:15, P-4:15

R — Popeye, See Tuesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C — Carborundum Band
KFAB KMBC KMOX WABC WBBM
WBT WCAO WCAU WCCO WEAN
WFBL WGR WHAS WHK WJAS
WJ5V WL3Z WMA5 WNBC WOKO
WORC WPG

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Harry Reser and Orchestra
WABC WCAO WCAU WDRG WEAN
WFBL WGR WHEC WHP WJAS
WJ5V WL3Z WMA5 WNBC WOKO
WORC WPG

R — The Hit Parade

KDYL KFI KFSD KFYR KGHL
KGIR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBW WFLA WGY
WHIO WHIO WIBA WIOD WIRE
WIS WJAR WJAX WJDX WKY
WLW WMAQ WMC WOAI WOW
WPTF WRC WRVA WSB WSM
WSMB WSOC WTAM WTAM
WTIC WTMJ WWJ WWNC

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Krueger Musical Tost
WABC WBIG WBT WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN
WFBL WFEA WGST WJSV WKBW
WL3Z WMA5 WMBG WMBR WNBC
WNBW WNOX WOKO WORC WQAM
WTOC

E-8:30 p.m., C-8:00, M-7:00, P-6:00

C — Chesterfield, See Wednesday

R — Chevrolet Program

KDYL KFI KFSD KFYR KGHL
KGIR KGU KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
KTBS KYW WAPI WAVE WBAP
WBEW WCAE WCSH WDAF WDAY
WEAF WEBC WEEI WFRB WFLA
WGY WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSMB WSOC
WTAM WTAM WTIC WTMJ
WWJ WWNC

E-9:30 p.m., C-8:30, M-7:30, P-6:30

C — Along Rialto Row; Variety
CFRB KFH KGKO KLRA KIZ
KMBC KMOX KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSB
KVOR KWKH WABC WACO WADC

WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRG WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBW WIBX WICC WISN
WJAS WJR WJSV WKBW WKRC
WLAC WL3Z WMA5 WMBD WMBR
WMBR WNBC WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSPD WTOC

R — Shell Chateau; Wallace Beery

KDYL KFI KFSD KFYR KGHL
KGIR KGU KHQ KOA KOMO KPO
KSD KSTP KTAR KYW WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFRB WGY WIBA
WJAR WLW WMAQ WOW WRC
WTAG WTAM WTIC WTMJ WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTBS KVOO KWK WAPI WAVE
WBAL WBAP WBZ WBZA WFIL
WGAR WHAM WIRE WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WOC WREN WSB WSMB
WSYR WXYZ

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — Public Opinion

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSCJ
KTRH KTSB KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRG WEAN WFBL WFBM
WFEA WHAS WHEC WHK WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBW WKRC WLAC WL3Z
WMA5 WMBD WMBG WMBR
WNBC WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

R — Corn Cob Pipe Club

KDYL KFI KGA KGW KJR KOA
KPO KSD KYW WBEN WCAE
WCKY WCSH WDAF WEAF WEEI
WFRB WGY WHIO WIRE WJAR
WMAQ WOW WRC WRVA WTAM
WTAM WTIC WWJ

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLL
KSCJ KSL KTRH KTSB KVOR
KWKH WABC WACO WADC WALA
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOD WDRG WFBL WFBM
WFEA WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WL3Z WMA5 WMBD WMBG
WMBR WNBC WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — National Barn Dance

KDYL KFI KFSD KFYR KGHL
KGIR KGU KGW KHQ KOA KOMO
KPO KSTP KTAR WDAY WEBC
WIBA WLW WTMJ

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSL
KTRH KTSB KVOR KWKH WABC
WACO WADC WALA WBSB WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRG WGAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WIBW WIBX WICC

WJAS WJR WKBW WKRC WLAC
WL3Z WMA5 WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

E-12:00 p.m., C-11:00, M-10:00, P-9:00

C — Dance Orchestra

CKAC KFH KLRA KMBC KMOX
KOMA KRLL KSCJ KSL KTRH
KTSB KVOR KWKH WABC WBBM
WBNS WBRC WCAU WCCO WDNC
WDOD WEAN WFBL WFBM WGST
WIBW WIBX WICC WISN WJR
WKBW WKRC WLAC WMBD
WMBR WNOX WOC WOKO WQAM
WSBT WSMK WSPD

SUNDAY

E-11:30 a.m., C-10:30, M-9:30, P-8:30

C — Salt Lake Tabernacle Choir

KFH KGKO KLRA KIZ KMBC
KOMA KRLL KSCJ KSL KTRH
KTSB KWKH WACO WADC WALA
WL3Z WBNS WBRC WBT WCCO
WDBO WDNC WDOD WDRG WFBL
WFBM WFEA WGST WHAS WIBW
WIBX WISN WJAS WJR WJSV
WKBW WKRC WLAC WL3Z WMA5
WMBD WMBR WNBC WNAS
WNOX WOKO WORC WQAM WREC
WSBT WSMK WSPD WTOC

R — Major Bowers' Capitol Family

KDYL KFYR KOA KPRC KSTP
KTBS KVOO WAPI WCAE WDAF
WDAY WEAF WEBC WFAA WFRB
WFLA WGY WHO WHIO WJAR
WJAX WKY WMAQ WMC WOAI
WRC WRVA WSAI WSBM WTAM
WTAM WWNC

E-12:30 p.m., C-11:30, M-10:30, P-9:30

C — Radio City Music Hall

CFRC CRCT KDKA KDYL KFI
KFYR KGO KGW KHQ KOIL KOMO
KPRC KSO KVOO WAPI WBAL
WBZ WBZA WCKY WDAY WEBC
WGAR WHAM WIS WJDX WJZ
WKY WMAL WOAI WREN WSMB
WSYR WWNC

E-12:45 p.m., C-11:45, M-10:45, P-9:45

C — Trans-Atlantic Broadcast

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KRLL KSCJ KTRH
KTSB KVOR WABC WACO WADC
WALA WBIG WBRC WCAO WCAU
WCCO WDAE WDBJ WDBO WDRG
WEAN WESG WFBL WFBM WFEA
WGR WHAS WIBX WISN WJSV
WKBW WLAC WL3Z WMBD WMBR
WNBC WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTOC WWL

E-1:00 p.m., C-12:00, M-11:00, P-10:00

C — Church of the Air

KFH KGKO KLRA KOMA KRLL
KSCJ KSL KTRH KTSB KVOR
KWKH WABC WACO WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WESG WFBM WGR
WHAS WHEC WIBW WIBX WJAS
WJSV WKBW WKRC WLAC WL3Z
WMBD WMBR WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD

E-1:30 p.m., C-12:30, M-11:30, P-10:30

C — Musical Footnotes

KMBC KMOX KRNT WABC WBBM
WBNS WNBC WCCO WGR WHAS
WJAS WJR WJSV WKRC WNBC
WREC

SUNDAY (Continued)

E-2:00 p.m., C-1:00, M-12:00, P-11:00

C — Tales of Tibet

CFRB KFH KGKO KIJL KLRA
KLZ KMBC KMOX KRNT KSCJ
KSL KTRH KTSB KVOR KWKH
WAAB WABC WADC WALA WDBO
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDRG
WEAN WESG WFBL WFBM WFEA
WGST WHAS WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WKBN WKBW WKRC WLAC WLWB
WMA5 WMBD WMBG WMBR
WMMN WNAC WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — Magic Key of RCA

CFRC CRCT KDKA KDYL KFI
KFYR KGJ KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVOC KWK WAPI WAVE
WBAL WBZ WBZA WCKY WDAY
WBCB WENR WFAA WFIL WFLA
WGAR WHAM WHIO WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WQAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

E-2:30 p.m., C-1:30, M-12:30, P-11:30

C — Jose Manzaneros and Orchestra

KFAB KMBC KMOX KOMA KRLD
KRNT KTRH WABC WADC WBBM
WBT WCAO WCAU WCCO WDAE
WDRG WEAN WFBL WFBM WHAS
WHK WISN WJAS WJR WJSV
WKBW WKRC WMBR WNAC
WOKO WQAM WREC WSPD WWL

R — Vox Pop; Sidewalk Interviews

KSD KYW WBEN WCAE WCSH
WEAF WEEI WFBW WGY WHO
WHIO WIRE WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WWJ

E-3:00 p.m., C-2:00, M-1:00, P-12:00

C — Philharmonic Symphony

CFRB CKAC KFH KGKO KLRA
KLZ KOMA KRLD KSCJ KSL KTRH
KTSB KVOR KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCCO WDAE
WDBJ WDBO WDNC WDOB WDRG
WEAN WESG WFBL WFBM WFEA
WGST WHAS WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WKBN WKBW WKRC WLAC WLWB
WMA5 WMBD WMBG WMBR
WMMN WNAC WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — Your English

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KPRC KSO KSTP
KTHS KVOC KWK WAPI WAVE
WBAL WBZ WBZA WDAY WBCB
WENR WFAA WFIL WFLA WGAR
WHAM WIOD WJAX WJZ WKY
WLW WMAL WMC WMT WQAI
WPTF WREN WRVA WSB WSM
WSPD WSYR WXYZ

E-3:15 p.m., C-2:15, M-1:15, P-12:15

B — Pine Mountain Merry-makers

KDKA KFYR KOIL KSO KSTP KWK
WBAL WBZ WBZA WDAY WBCB
WENR WFIL WGAR WHAM WIBA
WJZ WLW WMAL WMT WREN
WXYR WXYZ

E-3:30 p.m., C-2:30, M-1:30, P-12:30

R — Sherwin-Williams Program

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTBS KTHS
KVOO KYW WAPI WAVE WBEN
WCAE WCKY WCSH WDAF WFAF
WEEI WFAA WFBW WFLA WGY
WHIO WHIO WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WQAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WWJ
WWNC

E-4:00 p.m., C-3:00, M-2:00, P-1:00

Rev. Charles E. Coughlin

KFEL KNN KSFO KSTP KVOD
KWK WATR WCAO WCAU WDRG
WEAN WFBL WFEA WGAR WGR
WHK WHO WICC WISN WJAS
WJDX WJR WLW WLLH WLW
WMA5 WNAC WNBH WOKO WOL
WORC WOW WRDO

E-5:00 p.m., C-4:00, M-3:00, P-2:00

C — Abe Lyman and Orchestra

CFRB KFAB KMBC KMOX KRNT
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRG WEAN WFBL
WFBM WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WOKO
WSPD

R — Penthouse Serenade

CFRC KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KPRC KSTP
KTBS KTHS KVOO KYW WAPI
WAVE WBAF WBEN WCAE WCSH
WDAF WDAY WFAF WBCB WEEI
WFBW WFLA WGY WHIO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WQAI WOW
WPTF WRC WRVA WSAI WSB WSM
WSMB WSOC WTAG WTAM WTAR
WTIC WWJ WWNC

S — Roses and Drums

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WXYR WXYZ

E-5:30 p.m., C-4:30, M-3:30, P-2:30

C — Frank Crumit; Julia Sanderson

KFH KMBC KMOX KOMA KTUL
WAAB WABC WADC WBNS WCAO
WCAUWDRG WEAN WFBL WFBM
WGR WHAS WHEC WHK WIBX
WICC WJR WJSV WMA5 WOKO
WORC WSPD WWL WWVA

C — Jose Manzaneros and Orchestra

KDB KERN KFAB KFBC KFYR
KRC KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

R — Dream Drama

KYW WBEN WCAE WCSH WDAF
WEAF WEEI WFBW WGY WJAR
WMAQ WRC WSAI WTAG WTAM
WTIC WWJ

B — Bob Becker's Dog Chats

KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WXYR WXYZ

E-5:45 p.m., C-4:45, M-3:45, P-2:45

R — Richard Humber and Orchestra

KSD KYW WBEN WCAE WCSH
WDAF WFAF WEEI WFBW WGY
WHO WHIO WIRE WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTIC WWJ

B — Gabriel Heatter, News Review

KDKA KOIL KSO KWK WAPI

WAVE WBAL WBZ WBZA WCKY
WENR WFIL WGAR WHAM WJDX
WJZ WMAL WMC WMT WREN
WSB WSM WSMB WSYR WXYZ

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — National Amateur Night

CFRB CKAC KDB KERN KFAB
KFBC KFYR KRCR KGB KHJ KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KSL KVI KWG WAAB WABC
WBBM WBNS WBT WCAO WCAU
WCCO WDRG WFBL WFBM WGST
WHAS WHEC WHK WJAS WJR
WJSV WKBW WKRC WLAC WOKO
WREC WWL

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C — Smiling Ed McConnell

KDB KERN KFAB KFBC KFI
KFYR KRCR KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WAAB WABC
WBBM WBNS WBRW WBT WCAO
WCAU WCCO WDIJ WDRG WEAN
WFBL WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WLAC
WWL WWVA

B — Compa's Grand Hotel

KDKA KDYL KFI KHQ KOA KOIL
KOMO KPO KSO WBAL WBZ WBZA
WCKY WENR WGAR WHAM WJZ
WMAL WMT WREN WSYR

E-6:45 p.m., C-5:45, M-4:45, P-3:45

C — Voice of Experience

KMOX WAAB WABC WADC WBBM
WBT WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WHAS WHEC
WHK WJAS WJR WKBW WKRC
WSPD WWVA

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Alexander Woolcott

KDB KERN KFAB KFBC KFYR
KRCR KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WBBM
WCAO WCAU WCCO WDRG WFBL
WGR WHAS WHK WJAS WJR WJSV
WKRC WNAC WOKO

B — Jack Benny; Johnny Green

CFRC CRCT KDKA KFYR KOIL
KPRC KSO KSTP KTBS KVOO KWK
WAVE WBAL WBZ WBZA WDAY
WBCB WENR WFAA WFIL WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WLW
WMAL WMC WMT WQAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C — Phil Baker; Hal Kemp

KLRA KLZ KRLD KTRH KTSB
KWKH WABC WACO WADC WALA
WBIG WBNS WBRW WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDOB WDRG WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBX WICC
WJAS WJR WJSV WKBW WKRC
WLAC WLW WMA5 WMBR WNAC
WNEF WNOX WOKO WORC WQAM
WRC WSET WSPA WSJS WSMK
WSPD WTOC WWL WWVA

R — Fireside Recitals

KSD KYW WBEN WCAE WCSH
WDAF WFAF WFBW WGY WHIO
WHIR WJAR WMAQ WOW WRC
WSAI WTAG WTAM WTIC WWJ

B — Ozzie Nelson; Robt. L. Ripley

KDKA KDYL KFI KFYR KGW

SUNDAY (Continued)

KHQ KOA KOIL KOMO KPO KPRC
KBO KSTP KTAR KV00 KWK
WBAL WBZ WBZA WCKY WYV
WEBC WFAA WFLA WGAR WHEM
WIBA WIOD WJAX WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSYR WTAMJ WWCN
WXYZ

E-7:45 p.m., C-6:45, M-5:45, P-4:45

R — Sunset Dreams: Morin Sisters
CFCE CRCT KSD KYW WBCN
WCAE WGSB WDDZ WEAF WFBR
WGY WHO WHIO WIRE WJAR
WLW WMAQ WOAI WOOD WOW
WRC WTAG WTAM WTIC WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Eddie Cantor
KFAB KFH KLRA KLZ KMBC
KMOX KRN KRLD KRNT KTRH
KTSA KTUL KWKH WABC WADC
WBMB WBNS WBRC WBT WCAO
WCAI WCCO WDDO WDRG WEAN
WFBL WFBM WGR WGST WHAS
WHIC WHK WICC WJAS WJR
WJSV WKRC WLAC WNAC WOKO
WOWO WREC WSPD WWL

R — Major Bowes' Amateur Hour

CFCE CRCT KDYL KFI KFYY
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KV00 KYW
WAVE WBCN WBZ WBZA WCAE
WCSH WDAF WDAY WEAF WEBC
WFAA WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WTAG WTAM WTAR
WTIC WTAMJ WWJ WWCN

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Leslie Howard, Drama
KDB KERN KFAB KFBC KFPY
WFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOS KOIN KOL KOMA
KRLD KRNT KSL KTRH KTUL
KVI KWG WABC WADC WBBM
WBNS WBRC WBT WCAO WCAI
WCCO WDRG WEAN WFBL WFBM
WGR WHAS WHIC WHK WJAS
WJR WJSV WKRC WLAC WNAC
WOKO WOWO WREC WSPD WWL

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Ford Concert
GFBR KCAC KDB KERN KFAB
KFBC KFH KFPY KPRC KGB
KGK KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSA KTUL KVI KVOR KWG

KWKH WABC WACO WADC WALA
WBMM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDCN WDDO WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHF WJWB
WJX WICC WISN WJAS WJR
WJVB WKBH WKBN WKBW WKRC
WLAC WLBY WMAS WMBD WMBR
WNAC WNAX WNOX WOC WOKO
WORC WOWO WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOG
WWL

R — Manhattan Merry-Go-Round

CFCE KDYL KFI KFYY KGW KHQ
KOA KOMO KPO KSD KSTP KYW
WREN WCAE WGSB WDAF WDAY
WEAF WEBC WFBR WGY WHO
WHIO WIBA WJAR WMAQ WOW
WGR WSAI WTAG WTAM WTIC
WTMJ WWJ

B — Charles Previn; Olga Albani

KDKA KOIL KSO KWK WBAL WBZ
WJAZ WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

R — Album of Familiar Music

CFCE CRCT KDYL KFI KFYY
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBCN WCAE WGSB WDAF
WDAY WEAF WEBC WEI WFAA
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSAI
WSM WSMB WSOE WTAG
WTAM WTAR WTAMJ WWJ WWCN

B — Walter Winchell

KDKA KOIL KSO KWK WBAL WBZ
WJAZ WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-9:45 p.m., C-8:45, M-7:45, P-6:45

B — Niela Goodelle, Songs

KDKA KOIL KSO KWK WBAL WBZ
WBAZ WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

C — Wayne King and Orchestra

KDB KERN WFAB WFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KSL KVI
KWG WAAB WABC WADC WBBM
WBNS WCAO WCAU WCCO WDRG
WFBL WFBM WHAS WHK WJVB
WJAS WJR WJSV WKBW WKRC
WOKO WSPD WWL

R — General Motors Concert

CFCE CRCT KDYL KFI KFSD
KFYY KGHL KGIR KGU KGW
KHQ KOA KOMO KPO KPRC KSTP
KTAR KTBS KTIS KYW WAPI
WAVE WBAP WBCN WCAE WGSB
WDAF WDAY WEAF WEBC WEI
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSAI WSW WSMB WSOE
WTAG WTAM WTAR WTIC WTAMJ
WWJ WWCN

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — Freddie Rich and Orchestra

KLRA WABC WALA WBIG WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDCN WDDO WDRG WEAN
WFEA WGST WICC WJSV WLAC
WLBY WMAS WMBG WMBR WNAC
WORC WQAM WREC WSJS WTOG

C — Jack Hylton and Orchestra

KFAB KFH KLZ KMBC KMOX
KRNT KCSJ KVOR WBBM WCCO
WFBM WJWB WISN WJSV WKBH
WMBD WOC WOWO WSBT

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Eddie Cantor

KDB KERN KFBC KFPY KPRC
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

R — The Melody Master

KYW WBCN WCAE WEAF WEI
WFBR WGY WJAR WMAQ WRC
WTAG WTAM WTIC WWJ

R — Sunset Dreams: Morin Sisters

KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS
KTIS WBAP WDAF WKY

E-11:15 p.m., C-10:15, M-9:15, P-8:15

B — Walter Winchell

KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTIS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Voice of Experience

KDB KERN KFBC KFPY KPRC
KGB KHJ KLZ KMJ KOIN KOL KSL
KVI KWG

B — Jack Benny; Johnny Green

KDYL KFI KFSD KGHL KGIR
KGU KGW KHQ KOA KOMO KPO
KTAR

E-12:00 p.m., C-11:00, M-10:00, P-9:00

B — Charles Previn; Olga Albani

KDYL KFI KGW KHQ KOA KOMO
KPO

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

C—Columbia; R—National (Red); B—National (Blue)

These features are correct at the time of going to press, but changes are being made daily.

CONCERTS

Arnieo Iron Master, 10:30 p.m. Monday, B
 Ford Concert, 9:00 p.m. Sunday, C
 General Motors Concert, 10:00 p.m. Sunday, R
 Philharmonic Symphony, 3:00 p.m. Sunday, C
 Radio City Music Hall, 12:30 p.m. Sunday, B

DANCE BANDS

Victor Arden, 8:00 p.m. Thursday; 8:30 p.m. Friday, B
 Ben Bernie, 9:00 p.m. Tuesday, B
 Ray Block, 8:30 p.m. Saturday, C
 Bob Crosby, 8:15 p.m. Friday, B

Al Goodman, 9:00 and 11:30 p.m. Friday, B; 8:00 p.m. Saturday, R

Glen Gray, 9:00 and 11:30 p.m. Tuesday and Thursday, C

Johnny Green, 7:00 and 11:30 p.m. Sunday, B

Louis Gress, 8:00 p.m. Sunday, C

Horace Heidt, 10:00 p.m. Thursday, C

Richard Himber, 5:45 p.m. Sun., R; 10:00 p.m. Fri., C

Jack Hylton, 10:30 p.m. Sunday, C

Art Kassel, 10:30 p.m. Friday, R

Hal Kemp, 7:30 p.m. Sunday, C

Wayne King, 10:00 p.m. Sunday and Monday, C;

8:30 p.m. Tuesday and Wednesday, R
 Guy Lombardo, 8:00 p.m. Monday, C
 Abe Lyman, 5:00 p.m. Sunday, C; 9:00 p.m. Friday, R
 Jose Manzanera, 2:30 and 5:30 p.m. Sunday, C
 Waldo Mayo, 7:15 p.m. Tues. and Thurs., C
 Ozzie Nelson, 7:30 p.m. Sunday, B
 Red Nichols, 8:30 p.m. Friday, B
 Ray Noble, 9:30 p.m. Wednesday, C
 Raymond Paige, 9:00 p.m. Friday, C
 Charles Previn, 9:00 and 12:00 p.m. Sunday, B
 Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
 Harry Reser, 8:00 p.m. Saturday, C
 Freddie Rich, 10:30 p.m. Sunday; 8:00 p.m. Friday, C
 Rudy Vallee, 8:00 p.m. Thursday, R
 Fred Waring, 9:30 and 12:00 p.m. Tuesday, C
 Paul Whiteman, 10:00 p.m. Thursday, R
 Victor Young, 9:30 p.m. Saturday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
 Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat. and Sun., R
 Phil Baker, 7:30 p.m. Sunday, C
 Jack Benny, 7:00 and 11:30 p.m. Sunday, B
 Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C
 Eddie Cantor, 8:00 and 11:00 p.m. Sunday, C
 Easy Aces, 7:00 p.m. Tues., Wed., and Thurs., B
 Fibber McGee and Molly, 8:00 p.m. Monday, B
 Rube Goldberg, 7:15 p.m. Tues. and Thurs., C
 Harv and Esther, 8:00 p.m. Thursday, C
 Lum and Abner, 7:30 p.m. daily, except Sat. and Sun., B
 Walter O'Keefe, 9:00 and 11:30 p.m. Tues. and Thurs., C
 Pick and Pat, 8:30 and 11:30 p.m. Monday, C
 Poneye, The Sailor, 7:15 p.m. Tues., Thurs. and Sat., R

DRAMA

Cavalcade of America, 8:00 p.m. Wednesday, C
 Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B
 Death Valley Days, 9:00 p.m. Thursday, B
 Dream Drama, 5:30 p.m. Sunday, R
 Eno Crime Clues, 8:00 p.m. Tuesday, B
 First Nighter, 10:00 p.m. Friday, R
 Grand Hotel, 6:30 p.m. Sunday, B
 Helen Hayes, 12:00 mid. Monday, 9:30 p.m. Tues., B
 House of Glass, 8:30 and 11:30 p.m. Wednesday, B
 Leslie Howard, 8:30 p.m. Sunday, C
 Warden Lawes, 9:30 p.m. Wednesday, B
 Lux Radio Theatre, 9:00 p.m. Monday, C
 March of Time, 10:30 p.m. daily, except Sat. and Sun., C
 Myrt and Marge, 7:00 and 11:00 p.m. daily, except Sat. and Sun., C
 One Man's Family, 8:00 p.m. Wednesday, R
 Princess Pat Players, 9:30 p.m. Monday, B
 Irene Rich, 8:00 p.m. Friday, B
 Buck Rogers, 6:00 p.m. Mon., Tues., Wed., Thurs., C
 Roses and Drums, 5:00 p.m. Sunday, B
 True Story Court, 9:30 p.m. Friday, R
 Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m. Monday, R
 Album of Familiar Music, 9:30 p.m. Sunday, R
 Along Rialto Row, 9:30 p.m. Saturday, C
 Atlantic Family, 7:00 p.m. Saturday, C
 Major Bowes, 11:30 a.m. and 8:00 p.m. Sunday, R
 Broadway Varieties, 8:30 p.m. Friday, C
 Camel Program, 9:00 and 11:30 p.m. Tues. and Thurs., C
 Carborundum Band, 7:30 p.m. Saturday, C
 Chesterfield Program, 9:00 p.m. Wed. and Sat., C
 Chevrolet Program, 9:00 p.m. Saturday, R
 Cities Service Concert, 8:00 p.m. Friday, R
 Contented Program, 10:00 p.m. Monday, R
 Com Cob Pipe Club, 10:30 p.m. Saturday, R
 Evening in Paris, 8:30 p.m. Monday, B
 Fiesdic Recitals, 7:30 p.m. Sunday, R
 Fleischmann Variety Hour, 8:00 p.m. Thursday, R
 Flying Red Horse Tavern, 8:00 p.m. Friday, C
 Hammerstein's Music Hall, 8:00 p.m. Monday, R
 Hit Parade, 8:00 p.m. Saturday, R
 Hollywood Hotel, 9:00 p.m. Friday, C
 Imperial Hawaiian Band, 7:15 p.m. Wednesday, C
 Jumbo-Fire Chief Show, 9:30 p.m. Tuesday, R
 Log Cabin Revue, 10:00 p.m. Wednesday, R
 Magic Key of RCA, 2:00 p.m. Sunday, B
 Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R

Maxwell House Show Boat, 9:00 p.m. Thursday, R
 Melody Master, 11:00 p.m. Sunday, R
 Musical Footnotes, 1:30 p.m. Sunday, C
 National Amateur Night, 6:00 p.m. Sunday, C
 National Barn Dance, 9:30 and 11:00 p.m. Saturday, B
 N.T.G. and His Girls, 9:00 p.m. Tuesday, R
 Palmolive Beauty Box, 9:00 and 11:30 p.m. Friday, B
 Penthouse Serenade, 5:00 p.m. Sunday, R
 Pine Mountain Merry-makers, 3:15 p.m. Sunday, B
 Shell Chateau, 9:30 p.m. Saturday, R
 Sherwin-Williams Program, 3:30 p.m. Sunday, R
 Sinclair Minstrels, 9:00 p.m. Monday, B
 Swift Studio Party, 10:00 p.m. Tuesday, R
 Town Hall Tonight, 9:40 and 12:00 p.m. Wednesday, R
 Uncle Ezra, 7:15 p.m. Mon., Wed. and Fri., R
 Voice of Firestone, 8:00 and 11:30 p.m., Monday, R

SINGERS

Countess Olga Albani, 9:00 and 12:00 p.m. Sunday, B
 Babs and Her Brothers, 9:30 p.m. Wednesday, C
 Vivian Della Chiesa, 1:30 p.m. Sunday, C
 Bernice Claire, 5:00 p.m. Sunday, C
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Jessica Dragonette, 8:00 p.m. Friday, R
 Phil Ducey, 8:00 and 11:30 p.m. Tuesday, R; 8:00 p.m. Wednesday, B
 Mary Eastman, 10:45 p.m. Friday, C
 Jack Fulton, 5:00 p.m. Sunday, R
 Niela Goodelle, 9:45 p.m. Sunday, B
 Hohn Hale, 10:45 p.m. Wednesday, C
 Wendell Hall, 10:00 p.m. Tuesday, B
 Helen Jepson, 10:00 p.m. Thursday, R
 Frances Laugford, 9:00 p.m. Friday, C
 Lazy Dan, 7:15 p.m. Friday, C
 Elizabeth Lennox, 8:30 p.m. Friday, C
 Nino Martini, 9:00 p.m. Saturday, C
 Mills Brothers, 10:30 p.m. Friday, R
 Luey Monroe, 8:00 p.m. Tuesday, C
 Grace Moore, 9:30 p.m. Monday, R
 Morin Sisters, 7:45 and 11:00 p.m. Sunday, R
 Frank Munn, 8:00 p.m. Tuesday, C; 9:30 p.m. Sunday and 9:00 p.m. Friday, R
 Frank Parker, 7:00 p.m. Saturday, C
 Plekens Sisters, 8:30 p.m. Monday, B
 Lily Pons, 9:00 p.m. Wednesday, C
 Carmela Ponselle, 8:30 p.m. Friday, C
 Dick Powell, 9:00 p.m. Friday, C
 Eleanor Powell, 8:00 p.m. Friday, C
 Virginia Rea, 9:00 p.m. Saturday, R
 Lanny Ross, 9:00 p.m. Thursday, R
 Fritzi Scheff, 8:00 p.m. Tuesday, C
 Vivienne Segal, 9:30 p.m. Sunday; 9:00 p.m. Friday, R
 Oscar Shaw, 8:30 p.m. Friday, C
 Singin' Sam, 7:30 and 11:15 p.m. Monday, C
 Smiling Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 7:30 p.m. Tues., Wed., and Thurs., C
 Oliver Smith, 5 p.m. Sunday, C
 Conrad Thibault, 10:00 p.m. Wednesday, R
 John Charles Thomas, 9:00 p.m. Wednesday, B
 Three Little Words, 6:30 p.m. Saturday, C
 Lawrence Tibbett, 8:30 p.m. Tuesday, C
 Vera Van, 7:15 p.m. Tuesday and Thursday, C

TALKS

Bob Becker's Dog Chats, 5:30 p.m. Sunday, B
 Boake Carter, 7:45 p.m. daily except Sat. and Sun., C
 Rev. Charles E. Coughlin, 4:00 p.m. Sunday
 Jimmy Fidler, 10:30 p.m. Wednesday, B
 Thornton Fisher, 7:00 p.m. Saturday, R
 Gabriel Heatter, 5:45 p.m. Sunday, B
 Ivory Stamp Club, 7:15 p.m. Mon., Wed., and Fri., B
 H. V. Kaitenborn, 6:00 p.m. Friday, C
 Harold Nicolson, 10:45 p.m. Thursday, C
 Public Opinion, 10:30 p.m. Saturday, C
 Robert L. Ripley, 7:30 p.m. Sunday, B
 Sidewalk Interviews, 2:30 p.m. Sunday, R
 Tales of Tibet, 2 p.m. Sunday, C
 Lowell Thomas, 6:45 p.m. daily except Sat. and Sun., B
 To Arms for Peace, 9:30 p.m. Thursday, C
 Trans-Atlantic Broadcast, 12:45 p.m. Sunday, C
 Voice of Experience, 6:45 and 11:30 p.m. Sunday, C
 Frederic William Wie, 6:00 p.m. Saturday, C
 Walter Winchell, 9:30 and 11:15 p.m. Sunday, B
 Alexander Woolcott, 7:00 p.m. Sunday, C
 Your English, 3:00 p.m. Sunday, B

Your New Set

(Continued from page 8)

west coast 10 and 20 watters that would be good catches in any log. Or, what would be more interesting than trying to log 48 states in the 75-meter amateur band? It is a difficult feat and we do not know of anyone who has done it, but it is a mark worth shooting at.

If North American DX fails to stir one's imagination, he should try the second band below the broadcast band, the one that tunes from about 5000 kilocycles to about 10,000 kilocycles. Incidentally, this is probably as good a place as any to explain that a megacycle is 1000 kilocycles, so 5000 kcs. is the same as 5 megs., and 10,000 kcs. equals 10 megs.

The Best Time to Tune

Signals between 5 and about 7 or 8 megs. like darkness. Satisfactory reception on these frequencies is possible only when darkness exists between the transmitter and the receiver, so this band is ideal for evening reception of European and South American stations. Beginners are advised to confine their tuning for a few nights to the 6 megs. band. Their tuning will be rewarded, no doubt, by reception of YV2RC, HJ4ABE, GSL perhaps or even DJC.

Radio stations between 8 and 10 megs. are at their best when the transmitter is in a night-time area and the receiver in daylight. Therefore HBL in Switzezrland, DJN in Germany and EAQ in Spain come in well from 5 to 7 p.m., EST, while it is about midnight or later at the transmitters. Signals from the other side of the world, in Australia, Java, and Japan, visit us in the early morn-

ing while it is approaching evening in their own locations.

Below 10 megs. the difficulty in tuning increases and beginners should confine their activities to lower frequencies until the knack of tuning in foreign stations is acquired. Generally speaking, from 11 megs. up to 20 megs. are day-time frequencies so this part of the set should be ignored after darkness falls.

The Editor's Desk

(Continued from page 29)

Radio Station WEMP at Milwaukee, 1310 kcs. 100 watts, was opened with elaborate ceremonies on November 24th.

A 375-foot, self-supporting vertical radiator has been erected at Deepwater, Tex., 15 miles southeast of Houston, for the use of both KPRC, 920 kcs., and KTRH, 1290 kcs. This information comes from John Stewart, 2020 Croker St., Houston, who adds: "KPRC will start using the radiator about January first together with KTRH at the same hours." If this means that the antenna will be used simultaneously by two stations on two different frequencies, we believe it will be an unique occurrence. Our readers are asked to report the reception of KTRH when using the new radiator. It would be helpful if they could note the signal strength before and after making the change.

James L. Steele, Morristown, N. J., reports hearing an "XERA" on 840 which advertises Doc. Brinkley exclusively. It practically destroys CRCT. He believes it to be located in Michoacan.

Short Wave Stations By Frequencies

1.510 megs. 198.55 m.
CJD, Campbell River, B. C. 300 W. Minister of Lands for B. C.
CJK, Knight Inlet, B. C. 100 W. Anglo British Columbia Packing Co., Ltd.
VAC, Cape Lazo, B. C. 50 W. Dominion Gov. Sun.,

0610-0640; 1010-1040; 1710-1740. Other days 0500-1945.

VAF, Alert Bay, B. C. 50 watts. Dominion Gov.
YDA8, Tandjongpriok, N. E. I. 500 W. N. V. Nederlandsch Indische-Radio Omroep Maatschappij. Konigsplein W. 5, Batavia-Centrum,

SHORT WAVE STATIONS BY FREQUENCIES

Java, N. E. I. Daily, 0530-1100; 1745-1845; 2230-0130.		WIEX, Broadcast pickup. National Broadcasting Co.	
		WJER, Broadcast pickup. WTMJ, The Milwaukee Journal, 333 W. State St., Milwaukee, Wis.	
1.520 mags. 197.25 m.		WMEF, Broadcast pickup. 150 W. National Broadcasting Co.	
VIA, Adelaide, Australia. 175 w. Police.		....., Funter Bay Camp, Alaska.	
VKD, Sydney, Australia. 1.4 kW. Police.			
1.530 mags. 195.96 m.		1.610 mags. 186.22 m.	
YDB7, Soerabaja, N. E. I. 75 watts. Address, see YDA8 above. Daily, 0530-1100; 1745-1845; 2230-0130.		....., Chicago, Ill.	
		....., DeQuoin, Ill.	
		....., Effingham, Ill.	
		....., Macomb, Ill.	
		....., Pontiac, Ill.	
		....., Springfield, Ill.	
		....., Sterling, Ill.	
1.540 mags. 194.69 m.			
CJD, Campbell River, B. C. 300 watts. Minister of Lands for B. C.		1.615 mags. 185.65 m.	
VBV, Lunenburg, N. S. 100 watts. Lunenburg Sea Products, Ltd. (Station operated by Canadian Marconi)		YDB4, Tjepoe, N. E. I. 25 W. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.550 mags. 193.43 m.			
YDA4, Soekaboemi, N. E. I. 25 watts. For address and schedule see YDA8, 1.510 mags.		1.620 mags. 185.07 m.	
		CFD, Kenora, Ont. 150 W. Ontario Dept. of Lands and Forests.	
1.566 mags. 191.46 m.		CFJ, Red Lake, Ont. Address CFD above.	
WIED Broadcast pickup. 50 watts. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. City		CFL, Tabouret, P. Q. 100 W. Laurentian Forest Protective Association, Ltd., 126 St. Peter St., Quebec, P. Q.	
WIEX, Broadcast pickup. 50 watts. Address, see WIED above.		CFM, Manicouagan River Estuary, P. Q. 100 W. Address CFL above.	
		CZB, Bellevue, P. Q. 100 W. Address CFL above.	
		CZY, Riviere du Chef, P. Q. 100 W. Address CFL above.	
		CZZ, St. Feleicien, P. Q. 100 W. Address CFL above.	
1.570 mags. 190.96 m.			
WPEQ, Baton Rouge, La. Police.		1.622 mags. 184.85 m.	
YDB6, Malang, N. E. I. 100 watts. For address and schedule see YDA8, 1.510 mags.		KGXU, Port Armstrong, Alaska. Buchan & Heinen.	
		KHP, Deep Cove, Alaska. (KIJV) Atlas Packing Co.	
1.574 mags. 190.48 m.		KIED, Broadcast pickup. (KFWB, Warner Bros., Hollywood, Calif.)	
KGPY, Shreveport, La. Police.		KIFI, Broadcast pickup. (WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.)	
		KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood.)	
1.580 mags. 189.76 m.		KIJI, Port Conclusion, Alaska. Northwestern Herring Co.	
CJM, Borden, P. E. I. 100 watts. Works ships. Canadian National Railway.		KIJK, Washington Bay, Alaska. Storfold & Gron-dahl.	
		KIJO, Port Herbert, Alaska. P. H. Packing Co.	
1.585 mags. 189.16 m.		KIJS, Newport Walter, Alaska. Chatham Strait Fish Co.	
YDD3, Batavia (C), Java, N. E. I. 50 watts. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.		KIJV, Deep Cove, Alaska. 50 watts. (KHP) Atlas Packing Co.	
		KILU, Broadcast pickup. (KARK, N.S.L. Bldg., Little Rock, Ark.)	
1.595 mags. 187.98 m.		KIOG, Red Bluff, Alaska. 50 watts. Richmond Fisheries Co.	
YDB5, Solo, N. E. I. 25 watts. For address and schedule see YDD3, 1.585 mags.		WIEH, Broadcast pickup. (WMCA, 1697 Broadway, N. Y. City)	
		WKEM, Broadcast pickup. (WINS, Hearst Radio, 110 E. 58th St., N. Y. City)	
1.596 mags. 187.84 m.			
CFC, Cub Lake, Sask. 100 watts. Dept. of Natural Resources, Govt. of the Province of Sask.		1.630 mags. 183.94 m.	
CGQ, Lac la Ronge, Sask. 100 watts. Address, see CFC above.		WEY, Boston, Mass. Marine Fire Station.	
CGV, Emma Lake, Sask. 100 watts. Address CFC above.		WKDT, Detroit, Mich. Marine Fire Station.	
CZJ, Isle-a-la-Crosse, Sask. 100 watts. Address CFC VYP, Prince Albert, Sask. Address, CFC above.		YDD2, Bandoeng, Java, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Tegallegh O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.	
WPGG, Findlay, Ohio. 500 W. State of Ohio, Highway police.			
WPGQ, Columbus, Ohio. 400 W.		1.634 mags. 183.48 m.	
WPHC, Massillon, Ohio. 400 W. State of Ohio, Dept. of Highways.		WPHE, Marion County, Ind. 1 kW. Indiana State Police.	
WPHK, Wilmington, Ohio. State of Ohio.		WPHS, Culver, Ind. 1 kW. Municipal police.	
WPHT, Cambridge, Ohio.		WPHU, Jasper, Ind. 1 kW. State of Ind., Dept. of Safety.	
1.606 mags. 186.69 m.		WQFE, Seymour, Ind. 1 kW. State of Ind., Dept. of Pub. Safety.	
KQX/Y Port Alexander, Alaska. Karl Hi sen.		WQFW, Columbia City, Ind. 1 kW. State of Ind.	
KIGA, Broadcast pickup. 7.5 watts. KSTP, St. Paul Hotel, St. Paul, Minn.		....., Indianapolis, Ind. 100 watts. State police.	
KNED, Broadcast pickup. 50 watts. WBAP, Carter publications, Ft. Worth, Tex.			
WHER, Broadcast pickup. (KDKA) Grant Bldg., Pittsburgh.			
WIEO, Broadcast pickup. 50 watts. NBC, 30 Rockefeller Plaza, N. Y. City.			
WIEW, Broadcast pickup. National Broadcasting Co.			

SHORT WAVE STATIONS BY FREQUENCIES

YDA3, Buitenzorg, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	1.640 megas.	182.82 m.	CMPN, Havana Cuba Police.	1.712 megas.	175.13 m.
WRDS, E. Lansing, Mich. 1 kW. night; 5 kW. day. State police.	1.642 megas.	182.59 m.	KGHY, Whittier, Calif. 30 watts. City of W.		
KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Brdcstg. Co.	1.646 megas.	182.15 m.	KGJX, Pasadena, Calif. 400 watts. City of P.		
WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. City.			KGPJ, Beaumont, Tex. City of B.		
WIEL, Broadcast pickup. Address WIEK above.			KGPL, Los Angeles, Calif. City of L. A.		
WLEB, Broadcast pickup. WOKO Inc., Hotel Ten Eyck, Albany, N. Y.			KGPQ, Honolulu, T. H. 500 w. City and County of H.		
	1.650 megas.	181.71 m.	KGPR, Fort Worth, Tex. City of F. W.		
VBY, Lunenburg, N. S. Works shps. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.			KGZB, Houston, Tex. City of H.		
	1.658 megas.	180.83 m.	KGZL, Shreveport, La. City of S.		
KNHD, Redwood Falls, Minn. 400 w. State of M.			KGZQ, Waco, Texas. City of W.		
KSW, Berkeley, Calif. Municipal police.			KGZY, San Bernardino, Calif. 50 watts. City of S. B.		
WPGC, S. Schenectady, N. Y. 1 kW. night; 5 kW. day. State police.			KNFJ, Pomona, Calif. 50 watts. City of P.		
..... Redwood Falls, Minn. 500 watts.			KNGE, Cleburne, Tex. 50 watts. City of C.		
	1.660 megas.	180.62 m.	KNGL, Galveston, Tex. 50 watts. City of G.		
YDB3, Djokja, N. E. I. 100 watts. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.			KNHF, Denton, Texas. 50 w. City of D.		
	1.666 megas.	179.96 m.	KVP, Dallas, Tex. 500 watts. City of D.		
WMP, Framingham, Mass. 1 kW. State police.			VYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept.		
WPEL, W. Bridgewater, Mass. 1 kW. State police.			WPDB, Chicago, Ill. City of C.		
WPEV, Portable in Mass. 50 watts. State police.			WPDC, Chicago, Ill. City of C.		
WPEW, Northampton, Mass. 1 kW. State police.			WPDD, Chicago, Ill. City of C.		
..... Nashville, Tenn. Municipal police.			WPDU, Pittsburgh, Pa. City of P.		
	1.668 megas.	179.75 m.	WPED, Arlington, Mass. Town of A.		
CFC, Cub Lake, Sask. Dept. of Natural Resources Govt. of the Province of Saskatchewan.			WPEH, Somerville, Mass. City of S.		
CGQ, Lac la Ronge, Sask. Address CFC above.			WPEI, E. Providence, R. I. E. Prov. Police Dept.		
CGV, Emma Lake, Sask. Address CFC above.			WPEJ, Brookline, Mass. City of B.		
CZJ, Iste-a-la-Crosse, Sask. Address CFC above.			WPGA, Newton, Mass. City of N.		
VYP, Prince Albert, Sask. Address CFC above.			WPFN, Fairhaven, Mass. Address: City of New Bedford Police.		
	1.674 megas.	179.10 m.	WPGF, Providence, R. I.		
KGHK, Palo Alto, Calif. 20 watts. Municipal police			WPGV, Boston, Mass. 500 watts. City of B.		
KGZT, Santa Cruz, Calif. 100 watts.			WPHG, Medford, Mass. 500 watts. City of M.		
KIUK, Jefferson City, Mo. State police.			WQFL, Oak Park, Ill. City of O. P.		
WPSP, Harrisburg, Pa. 1kW. State police.			..... Waukegan, Ill.		
	1.682 megas.	178.25 m.	1.715 megas to 2.000 megas. 174.82 m. to 149.91 meters Amateur Band. Phones in following countries work between 1.875 and 2,000 megas. (149.91 m. to 159.90 meters). Australia, Argentina, Canada, Ecuador, Estonia, Union of South Africa, United States of America.		
KACC, Fairfield, Iowa. 500 w. State of I.					
KACD, Atlantic, Iowa. 500 w. State of I.					
KGHO, Des Moines, Ia. State of Iowa, Bureau of Investigation.					
KNFN, Waterloo, Iowa. 400 watts.					
KNFO, Storm Lake, Iowa. 400 watts.					
W8XA, Portable in Ohio. 50 watts. Dept. of Highways, Div. of State Highway Patrol.					
	1.698 megas.	176.57 m.			
KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.					
	1.706 megas.	175.74 m.			
KGPC, St. Louis, Mo. City of S. L.					
WKDU, Cincinnati, Ohio. City of C.					
WPET, Lexington, Ky. City of L.					

SHORT WAVE STATIONS BY FREQUENCIES

2.050 mags.	146.25 m.	CKB, Pictou, N. S. 15 watts. Dept. of Public Works.	
W9XAK, Manhattan, Kans. Television. Mon., 1945-2030. Wed. 2100-2200.		CKO, Crane Island P. Q. 15 watts. Dept. of Public Works.	
2.060 mags.	145.54 m.	CKP Montmagny, P. Q. 15 watts. Dept. of Public Works.	
KIFO, Broadcast pickup. 200 watts.		CKU, Pictou Island N. S. 15 watts. Dept. of Public Works.	
KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood).		2.290 mags.	130.93 m.
WNER, Broadcast pickup. 100 watts. WAU, Deshler-Wallick Hotel, Columbus, Ohio.		CFV, Namu, B. C. 100 watts. British Columbia Packers, Ltd.	
2.070 mags.	144.84 m.	CFW, Bones Bay, B. C. 100 watts. Canadian Fishing Co., Ltd.	
YD07, Soerabaja, N.E.I. Owner: v. Wingen.		CJE, Ceepeecee, B. C. 10 watts. Canadian Packing Corp.	
2.090 mags.	143.45 m.	CJX, Margaret Bay, B. C. Canadian Fishing Co., Ltd	
KNEC, Broadcast pickup. KVI, Puget Sound Broadcasting Co., Tacoma.		CZL, Humpback Bay, B. C. 100 watts. Chatham Sound Fishing & Packing Co., Ltd.	
YDGS, Batavia, Java, N.E.I. Batavia Radio Vereeniging.		VFJ, Homalko, B. C. 100 watts. Homalko Logging Co., Ltd.	
2.102 mags.	142.64 m.	2.304 mags.	130.13 m.
KIGA, Broadcast pickup. KSTP, St. Paul Hotel, S. P. Minn.		KBAI, Ketchikan, Alaska. Forestry.	
KIGW, Broadcast pickup.		KMYA, Juneau, Alaska. Forestry.	
KNED, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas)		2.342 mags.	128.02 m.
WHER, Broadcast pickup. (KDKA, Grant Bldg., Pittsburgh).		CGZ Vancouver, B. C. 400 w. Corp. of the City of V.	
WIEO, Broadcast pickup. 50 watts. Address WIEO, 2,020 mags.		2.350 mags.	127.58 m.
WIEW, Broadcast pickup. Address WIEO, 2,020 mags.		VBQ, Halifax, N. S. 25 watts. Works ships in harbor.	
WIEX, Broadcast pickup. Address WIEO, 2,020 mags.		YDES, Djokakarta, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. S. Batavia-Centrum, Java. 0530-1100; 1745-1845; 2230-0130.	
WJER, Broadcast pickup. WTMJ, The Journal Co., 333 W. State St., Milwaukee, Wisc.		2.382 mags.	125.87 m.
WMEF, Broadcast pickup. 150 watts. Address WIEO, 2,020 mags.		KGHT Brownsville, Tex. 25 watts. City of B.	
2.110 mags.	142.09 m.	KGHV, Corpus Christi Texas 50 watts. City of C. C.	
W1XH, Boston, Mass.		KNFE, Duluth, Minn. City of D. Police.	
YD12, Soekaboemi, N. E. I., Batavia Radio Vereeniging.		KNBH, Green Bay, Wisc. 50 w. City o G B.	
2.150 mags.	139.45 m.	WPDN, Auburn N. Y. Police	
KIED, Broadcast pickup. KFWB, Warner Bros., Hollywood, Calif.		WPEA Syracuse, N. Y. City of S. Police	
KIEO, Broadcast pickup. KFSD, U. S. Grant Hotel, San Diego, Calif.		WPFM, Birmingham Ala. 400 watts. City of B. Police.	
KIFI, Broadcast pickup. WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.		WPGW, Mobile, Ala. 400 watts. City of M. Police., Hibbing, Minn.	
KIFT, Broadcast pickup. KJBS, 1380 Bush St., San Francisco, Calif.		2.385 mags.	125.71 m.
KIIQ, Broadcast pickup. KMTR Radio Corp., 915 N. Formosa Ave., Hollywood, Calif.		YDA2, Batavia (C), Java, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.	
KILU, Broadcast pickup. 5 watts. KARK, N.S.L. Bldg., Little Rock, Ark.		2.390 mags.	125.45 m.
WIEG, Broadcast pickup. WMCA, 1697 Broadway, N. Y. City.		CJW, Saint John, N. B. 15 watts. Dept. of Public Safety.	
WKEM, Broadcast pickup. Hearst Radio, 110 E. 58th St., N. Y. C.		CJZ, Verdun, P. Q. 20 watts. City of V. Police.	
WLEZ, Broadcast pickup. WJAG, Norfolk Daily News, Norfolk, Nebr.		WIED Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	
2.190 mags.	136.90 m.	WIEX, Broadcast pickup. 50 watts. Address WIED above.	
KIHH, Broadcast pickup. KFAB, Cornhusker Hotel, Lincoln, Nebr.		2.396 mags.	125.14 m.
KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Broadcasting Co., Tacoma.		WYW, Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.	
WIEK Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St. New York City.		2.406 mags.	124.61 m.
WIEL, Broadcast pickup. Address WIEK above.		KGHZ, Little Rock, Ark. City of L. R. Police	
2.212 mags.	135.54 m.	KGPW, Salt Lake City, Utah. City of S. L. C. Police., Fort Smith, Ark.	
VYZ, High Falls, P. Q. 50 watts. James McLaren Co., Ltd.		2.414 mags.	124.20 m.
2.284 mags.	131.22 m.	KACE, Olympia, Wash. 50 w. City of O.	
CFT, Leamington, Ont. 14 watts. Dept. of Public Works.		KGHW, Centralia, Wash. 15 watts. City of C. Police.	
CFX, Pelee Island, Ont. 22 watts. Dept. of Public Works.		KGPA, Seattle, Wash. Seattle Police Dept.	
		KGPF, Santa Fe, N. Mex. 25 watts. Police.	
		KGPS, Bakersfield, Calif. City of B. Police.	
		KGZA, Fresno, Calif. 500 watts, City of F. Police.	

SHORT WAVE STATIONS BY FREQUENCIES

KGZM, El Paso, Texas. City of E. L. Police.
 KGZN, Tacoma, Wash. City of T. Police.
 KGZO, Santa Barbara, Calif. City of S. B. Police.
 KGZX, Aberdeen, Wash. 150 watts. City of A. Police.
 KGZX, Albuquerque, N. Mex. City of A. Police.
 KNFA, Clovis, N. Mex. 50 watts. City of C. Police.
 KNFI, Mt. Vernon, Wash. 50 watts. Skagit County Police.
 KNFP, Everett, Wash. 50 watts. City of E. Police.
 KNGU, Yakima, Wash. 100 watts.
 WCK, Detroit, Mich. D. City Police.
 WMO, Highland Park, Mich. City of H. P. Police.
 WPD A, Tulare, Calif. 150 watts.
 WPDJ, Passaic, N. J.
 WPD X, Detroit, Mich. City of D. Police.
 WPDY, Atlanta, Ga. City of A. Police.
 WPFH, Baltimore, Md. City of B. Police.
 WPI, Columbus, Ga. City of C. Police.
 WPGH, Albany, N. Y. 300 watts. City of A. Police.
 WPGJ, Utica, N. Y. 100 watts. City of U. Police.
 WPGM, La Grange, Ga. 50 watts.
 WQFB, Macon, Ga. 50 watts.
 WQFJ, Oneonta, N. Y. 50 w. City of O.
 WQFV, Augusta, Ga. 250 w. City Council of A.
 WRDR, Grasse Pointe, Mich. Township of G. P.
 , Bakersfield, Calif.
 , Lodi, Calif.

2.415 megs. 124.15 m.

YDE4, Soerabaja, N. E. I. 75 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.

2.416 megs. 124.09 m.

CZG, Prince Rupert, B. C. 150 watts. B. C. Provincial Police.

2.422 megs. 123.79 m.

KGPE, Kansas City, Mo. City of K. C. Police.
 KGPG, Vallejo, Calif. City of V. Police.
 KGZC, Topeka, Kans. City of T. Police.
 KNFF, Leavenworth, Kans. 100 watts. City of L.
 KNGF, Sacramento, Calif. 500 watts.
 WNIJ, Buffalo, N. Y. City of B. Police. 757 E. Perry St.
 WNPF, Niagara Falls, N. Y. 135 watts. City of N. F.
 WPD R, Rochester, N. Y. City of R. Police.
 WPDW, Washington, D. C. Municipal Police.
 WPFU, Portland, Me. City of P. Police.
 WPHB, Nashua, N. H. 50 watts. City of N. Police.
 , Atchison, Kans. 50 w.
 , Salina, Kans. 50 watts.

2.430 megs. 123.38 m.

KGHX, Santa Ana, Calif. 400 watts. Orange county Police.
 KGPB, Minneapolis, Minn. 500 watts. City of M.
 KGZJ, Phoenix, Ariz. Municipal Police.
 KNGP, Shreveport, La. 100 watts.
 WPD I, Columbus, Ohio. Franklin County Police.
 WPD M, Dayton, Ohio. City of D. Police.
 WPD S, St. Paul, Minn. City of S. P. Police.
 WPEK, New Orleans, La. 250 watts. City of N. O. Police.
 WPDF, Highland Park, Ill.
 WPFK, Hackensack, N. J. Bergen County Police Dept.
 WPGI, Portsmouth, Ohio. 50 watts. City of P. Police.
 WPHO, Zanesville, Ohio. 50 watts.
 WQFO, Lancaster, Ohio. 50 watts. City of L. Police.
 , Prescott, Ariz.

2.442 megs. 122.77 m.

KGHU, Austin, Texas, 100 watts. City of A. Police.
 KGPP, Portland, Ore. City of P. Police.
 KGPX, Denver, Colo. City and County of D. Police.
 KGZH, Klamath Falls, Ore. City of K. F. Police.
 KGZR, Salem, Ore. 50 watts. City of S. Police.

KNHM, Fargo, N. Dak. 50 w. City of F.
 WMDZ, Indianapolis, Ind. Municipal Police.
 WPE, Louisville, Ky. City of L. Police.
 WPDF, Flint, Mich. City of F. Police.
 WPDH, Richmond, Ind. City of R. Police.
 WPD L, Lansing, Mich. City of L. Police.
 WPED, Grand Rapids, Mich. 500 watts. City of G. R.
 WPES, Saginaw, Mich. City of S. Police.
 WPF C, Muskegon, Mich. City of M. Police.
 WPF E, Reading, Pa. City of R. Police.
 WPF G, Jacksonville, Fla. City of J. Police.
 WPF T, Lakeland, Fla. 50 watts. City of L. Police.
 WPF X, Palm Beach, Fla. 50 watts. Town of P. B.
 WPF Y, Yonkers, N. Y. 400 watts. City of Y. Police.
 WPF Z, Miami, Fla. 100 watts. City of M. Police.
 WPG L, Binghamton, N. Y. 400 watts. City of B.
 WPG P, Muncie, Ind. 100 watts. City of M. Police.
 WPH M, Orlando, Fla. 50 watts. City of O. Police.
 WQFM, Wilkes-Barre, Pa. 50 w. City of W.-B.
 WQFQ, Lafayette, Ind., 50 w. City of L.
 , Winter Haven, Pa.

2.450 megs. 122.38 m.

KACF, Chickasha, Okla. 50 w. City of C.
 KGHN, Hutchinson, Kas. 50 w. City of H.
 KGPH, Lawton, Okla. 50 w. City of L.
 KGP H, Oklahoma City, Okla.
 KGP O, Tulsa, Okla. City of Tulsa Police.
 KGP Z, Wichita, Kans. 250 watts. City of W. Police.
 KGZF, Chanute, Kans. 25 watts. City of C. Police.
 KGZP, Coffeyville, Kans. City of C. Police.
 KNGK, Duncan, Okla. 50 watts.
 KNGM, Rapid City, S. Dak. 50 watts. City of R. C.
 KNGO, Mobile in Airplane, Oklahoma State Police. 50 watts.
 KNGT, Muskogee, Okla. 50 watts.
 WPD K, Milwaukee, Wisc. City of M. Police.
 WPE E, Brooklyn, N. Y. City of New York Police.
 WPE F, Bronx, N. Y. City of New York Police.
 WPEG, New York, N. Y. City of N. Y. Police.
 WPEP, Kenosha, Wisc. 1000 watts. City and County of K. Police.
 WPH F, Richmond, Va. 150 watts. City of R. Police.
 WQFC, Roanoke, Va. 100 watts.
 WQFH, Lynchburg, Va. 50 watts. City of L.
 WQFI, Petersburg, Va. 50 w. City of P.
 YDB2, Semarang, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-2100; 1745-1845; 2230-0130.
 , Ada, Oklahoma.
 , Milwaukee, Wis.

2.458 megs. 121.97 m.

KGHS, Spokane, Wash. 100 watts. City of S. Police
 KGZI, Wichita Falls, Tex. City of W. F. Police.
 KGZW, Lubbock, Texas. 150 watts. City of L. Police.
 KNFB, Idaho Falls, Idaho. 500 watts.
 KNGW, Brownwood, Tex. 50 watts.
 WPD G, Youngstown, Ohio. 250 watts. City of Y.
 WPD O, Akron, Ohio. 250 watts. City of A. Police.
 WPD V, Charlotte, N. C. City of C. Police.
 WPF S, Asheville, N. C. 200 watts. Buncombe County Police.
 WPG D, Rockford, Ill. City of R. Police.
 WPH D, Steubenville, Ohio. 100 watts.
 WQF Z, Ottawa, Ill. 250 w. La Salle County Police.
 WRBH, Cleveland, Ohio. City of C.

2.466 megs. 121.58 m.

KGOZ, Cedar Rapids, Iowa. 50 watts. City of C. R.
 KGPD, San Francisco, Calif. City and County of S. F. Police.
 KGPI, Omaha, Nebr. City of O. Police.
 KGP K, Sioux City, Iowa. City of S. C. Police.
 KGP M, San Jose, Calif.
 KGP N, Davenport, Iowa. City of D. Police.
 KGZ G, Des Moines, Iowa. City of D. M. Police.
 WPEC, Memphis, Tenn. City of M. Police.

SHORT WAVE STATIONS BY FREQUENCIES

<p>WPBM, Woonsocket, R. I. City of W. Police. WPFV, Pawtucket, R. I. City of P. Police. WPFW, Bridgeport, Conn. 50 watts. City of B. Police. WPGA, Bay City, Mich. City of B. C. Police. WPGC, Port Huron, Mich. City of P. H. Police. WPGK, Cranston, R. I. 50 watts. City of C. Police. WPGX, Worcester, Mass. 100 watts. City of W. Police. WPHA, Fitchburg, Mass. 50 watts. City of F. Police WPHN, Tampa, Fla. 100 watts. City of T. Police. WPHP, Jackson, Mich. 50 watts. City of J. Police. WQFA, New Haven, Conn. 100 watts. WQFC, Gainesville, Fla. 50 w. WQFK, Clearwater, Fla. 50 w. City of C.</p>	<p>WFPF, Clarksburg, W. Va. City of C. Police. WPGN, South Bend, Ind. 100 watts. City of S. B. Police. WPGO, Huntington, N. Y. 25 watts. Town of H. Police. WPGS, Mineola, N. Y. County of Nassau Police. WPHI, Charleston, W. Va. 50 watts. City of C. Police. WPHJ, Fairmont, W. Va. 100 watts. WPHQ, Parkersburg, W. Va. 50 watts. City of P. Police.</p>
2.474 meg. 121.19 m.	2.506 meg. 119.64 m.
<p>KGHG, Las Vegas, Nev. 50 watts. KGHM, Reno, Nev. 50 watts. City of R. Police. KNFH, Garden City, Kans. 50 watts. City of G. C. KNGH, Dodge City, Kans. 50 watts. WPDF, Philadelphia, Pa. City of P. Police. WPHO, Knoxville, Tenn. City of K. Police. WPFQ, Swarthmore, Pa. Borough of S. Police. WPF5, Asheville, N. C. 200 watts. Buncombe County Police. WPGZ, Johnson City, Tenn. 50 watts. City of J. C. WPHY, Elizabethton, Tenn. 100 watts. Carter County, Police. WRDQ, Toledo, Ohio. 400 watts. City of T. Police. Mansfield, Ohio. 50 w. City of M.</p>	<p>KLH, San Rafael, Calif. Pacific Telephone & Telegraph Co. WOU, Marshfield, Mass. Phones fishing vessels.</p>
2.482 meg. 120.80 m.	2.512 meg. 119.36 m.
<p>KGZE, San Antonio, Tex. City of S. A. and State of Texas Police. WPGT, New Castle, Pa. 50 watts. City of N. C. Police. WPHZ, Oil City, Pa. 50 watts. City of O. C. Police. Monessen, Pa. 50 watts. Sharon, Pa.</p>	<p>KGM, Ketchikan, Alaska. Alaska Pacific Salmon Co. KLB, Port Althorp, Alaska. Address KGM above. KLC, Kake, Alaska. Address KGM above. KLE, Rose Inlet, Alaska. Address KGM. SHIPS owned by Alaska Pacific Salmon Co. as follows: KGJK, Jeannette E.; KGNM, Doris E.; KGNX, Yes Bay; WDEM, Wm. T. Muir; WFFR, Frances E.; WIDL, Leonine; WIDM, Sally S.; WIDN, Virginia E.; WNFM, Alco.</p>
2.490 meg. 120.41 m.	2.522 meg. 118.88 m.
<p>KGHA, Snowplow No. A232, 10 watts. State of Wash. KGHB, Snowplow No. A227, 10 watts. State of Wash. KGHC, Portable in Washington. 10 watts. State of W. KGHD, Seattle, Wash. 50 watts. State of Wash. KGHE, Snoqualmie Pass, Wash. State of W., Highway & Police Dept. KGHQ, Chinook Pass, Wash. 10 watts. State of W., Highway & Police. KGHR, Portable in Wash. 10 watts. State of Wash. KGZD, San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another, 100 watts. KGZU, Lincoln, Neb. City of L. Police. KNFC, Pt. Angeles, Wash. State Highway. KNFG, Olympia, Wash. 50 watts. State of W. Police. KNFK, Bellingham, Wash. 50 watts. State of Wash. KNFL, Shuksan Camp, Wash. 10 watts. State of Wash. Highways. KNFM, Compton, Calif. 25 watts. KNFR, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept. KNFS, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept. KNFU, Skykomish, Wash. 10 watts. State of W. KNFX, Ellensburg, Wash. 10 watts. Address KNFS above. KNFY, Bear Camp, Wash. KNFZ, Hells Crossing Camp, Wash. 10 watts. KNGA, Satus Pass Camp, Wash. 10 watts. KRGB, Yakima, Wash. 50 watts. KNGC, Vancouver, Wash. 50 watts. KNGD, Walla Walla, Wash. 10 watts. KNGJ, El Centro, Calif. 50 watts. KNGN, Norfolk, Nebr. 25 watts. KNGQ, Wenatchee, Wash. 50 watts. Address KNFS. KNGR, Spokane, Wash. 50 watts. Address KNFS. KNGZ, Ephrata, Wash. 10 w. State of W. WAKA, Huntington, Ind. 50 w. City of H. WPDZ, Kokomo, Ind. City of K. Police. WPDZ, Fort Wayne, Ind. City of F. W. Police.</p>	<p>KOW, Edmonds, Wash. Pacific Telephone & Telegraph Co. KDH, Port Alexander, Alaska. Karl Hansen. KDK, Wrangell, Alaska. Works KIJ, KLA, KFF. KLD daily at 0130. Owner: A. R. Brueger. KDV, Cordova (Eyak River), Alaska. Pioneer Sea Foods Co. WNFG, M. S. Arb No. 3. Owner: A. R. Bureger.</p>
2.550 meg. 117.58 m.	2.538 meg. 118.13 m.
<p>WMES, Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.</p>	<p>KMH, Ketchikan, Alaska. Alaska Pacific Salmon Co. as follows: KGJK, Jeannette E.; KGNM, Doris E.; KGNX, Yes Bay; WDEM, Wm. T. Muir; WFFR, Frances E.; WIDL, Leonine; WIDM, Sally S.; WIDN, Virginia E.; WNFM, Alco.</p>
2.566 meg. 116.84 m.	2.550 meg. 117.58 m.
<p>KFF, Union Bay, Alaska. Works KDK. Nakat Packing Corp. KHV, Nakeen, Alaska. Nakat Packing Corp. KLA, Waterfall, Alaska. Works KDK. Address above. KLD, Hidden Inlet, Alaska. Works KDK. Address above. KOU, Wilmington, Calif. Southern Calif. Telephone Co. WLFP, M. S. "Alaskan" Works KDK. A number of Motorships owned by the Nakat Packing Corp. work on this frequency.</p>	<p>WVBF, Napoleon, Mo. 500 watts. United States Army.</p>
2.590 meg. 115.76 m.	2.566 meg. 116.84 m.
<p>WOX, St. George, Staten Island, N. Y. Harbor phone. New York Telephone Co.</p>	<p>KNIA, Glacier National Park, Montana. KNKS, Yosemite National Park, Calif. KNKU, Yosemite National Park, Calif. KNKX, Deer Camp, Yosemite, Calif. KNKY, Devil's Post Pile Nat'l Monument, Calif. WVD, Seattle, Wash. 500 watts. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle. WXH, Ketchikan, Alaska. Works WVD.</p>
2.604 meg. 115.14 m.	2.590 meg. 115.76 m.
<p>KAEB, Hydraburg, Alaska. 40 w. Territory of A. KAED, Angoon, Alaska. 40 w. Territory of A. KAEF, Jack Wade, Alaska. 40 w. Territory of A. KION, Tin City, Alaska. 200 w. American Tin Fields, Inc. KIQU, Igloo, Alaska. 50 w. H. H. Burkher. Deering, Alaska.</p>	<p>2.616 meg. 114.61 m.</p>

SHORT WAVE STATIONS BY FREQUENCIES

....., Kasilof, Alaska.			
....., Kenai, Alaska.			
....., Wales, Alaska.			
	2.632 megs.	113.91 m.	
KGI, Nellie Juan, Alaska. (KIOD) Copper River Packing Co.			
KGX, Port Wakefield, Alaska. (KIOC) Apex Fish Co.			
KIJW, Shearwater Bay, Alaska. Kadiak Fisheries Co.			
KIJX, Kadiak Island, Alaska. Kadiak Fisheries.			
KIMA, Port Hobron, Alaska. American Pacific Whaling Co.			
KIOC, Port Wakefield, Alaska. (KGX) Apex Fish Co.			
KIOD, Nellie Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co.			
KIOH, Iron Creek (Raspberry Straits), Alaska. 50 watts. Southwestern Herring Co.			
KIOI, Akutan, Alaska. 50 watts. American Pacific Whaling Co.			
....., Funter Bay Camp, Alaska.			
	2.670 megs.	112.29 m.	
NMC, Point Bonita, Calif. 200 watts. United States Coast Guard.			
NMD, Cleveland, Ohio. 200 watts.			
NMF, Winthrop, Mass. 200 watts. U. S. Coast Guard.			
NMG, Mobile, Ala. U. S. Coast Guard.			
NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard.			
NMP, Wilmette, Ill. 200 watts.			
NMV, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.			
NMW, Grays Harbor, Wash. 200 watts.			
NMY, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard.			
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.			
NOF, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.			
NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.			
NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.			
NOM, Miami, Fla.			
NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.			
NOR, Sault Ste. Marie, Mich. 200 watts.			
NOU, New London, Conn. 200 watts. U. S. Coast Guard.			
NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.			
NOY, Galveston, Texas. 200 watts.			
NOZ, Port Townsend, Wash. 200 watts.			
....., Yaquina Bay, Ore. U. S. C. G.			
	2.698 megs.	111.13 m.	
NMD, Cleveland, Ohio. 200 watts.			
NMP, Wilmette, Ill. 200 watts.			
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.			
NOR, Sault Ste. Marie, Mich. 200 watts.			
....., Arena Cove, Calif. Works NMC, U. S. C. G.			
	2.710 megs.	110.63 m.	
YDKS, Semarang, N. E. I. Radio Vereniging Midden-Java.			
	2.726 megs.	109.98 m.	
KIIW, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.			
KIIX, Tujunga Dam No. 1, Calif. Address KIIW above.			
KIIFY, Los Angeles, Calif. 400 watts. Address KIIW above.			
KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.			
	2.728 megs.	109.90 m.	
KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.			
KIJZ, Portable in Oregon. See above.			
	2.738 megs.	109.50 m.	
KLKG, M. S. La Merced. Alaska Southern Packing Co.			
VGBQ, Yacht Seyelyn III. Capt. Paul F. Johnson.			
WDDQ, "Zapora" Willis Navigation Co.			
WDFL, "El Ferrito", Ben S. McGlashan, KGFJ, 1417 S. Figueroa, Los Angeles.			
WIFI, S. S. Cadrew, in Seattle Harbor, Wash. Works ships in harbor. Owner, A. E. Griswold.			
WLFJ, "Onawa", C. M. Ponce.			
WLFQ, Yacht "Heljinn". 40 w. J. V. Griffith, Tacoma, Wash.			
WLF5, "Uganik." San Juan Fishing & Packing Co.			
WOFM, "Principia." L. A. Macomber.			
WOFW, Yacht "Gallant Lady," 40 w. M. C. Riggs, Tacoma, Wash.			
	2.750 megs.	109.03 m.	
YDL6, Djokjakarta, N. E. I. Owner: v. Wingen.			
	2.760 megs.	108.63 m.	
WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.			
WMEF, Broadcast pickup. 150 watts. Address WIEO above.			
	2.770 megs.	108.24 m.	
YD06, Soerabaja, N. E. I. Owner: Eureka.			
	2.790 megs.	107.46 m.	
YDN3, Madioen, N. E. I. Owner: v. Wingen.			
	2.810 megs.	106.70 m.	
YDQ6, Malang, N. E. I. Owner: v. Wingen.			
	2.830 megs.	105.94 m.	
KNEC, Broadcast pickup. 40 w. Puget Sound Broadcasting Co., Tacoma, Wash.			
KNEF, Broadcast pickup. 200 w. KSL, Salt Lake City.			
YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.			
	2.850 megs.	105.20 m.	
YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.			
	2.870 megs.	104.47 m.	
YDA6, Cheribon, N. E. I. 15 watts.			
YDJ3, Tegal, N. E. I. Owner: v. Wingen.			
	2.910 megs.	103.03 m.	
YDE3, Semarang, N. E. I. 15 watts.			
YDK3, Semarang, N. E. I. Owner: v. Wingen.			
	2.912 megs.	102.96 m.	
KHW, Akutan, Alaska. American Pacific Whaling Co.			
KHZ, Port Hobron, Alaska. Address KHW.			
	2.930 megs.	102.33 m.	
WMEP, Suffield, Ohio. 400 watts.			
WMEU, St. Petersburg, Fla. 400 watts.			
WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base) 400 watts.			
WDO5, Soerabaja, N. E. I. Owner: Goldberg.			
	2.950 megs.	101.63 m.	
YDQ5, Malang, N. E. I. Owner: Vis.			
	2.980 megs.	100.61 m.	
CZA, Drummondville, P. Q. 4 kW. Phones ships. Canadian Marconi Co., Box 1690, Montreal, P. Q.			
	2.986 megs.	100.41 m.	
KDX, M. S. LeMerced (vessel moored in vicinity of False Pass, Alaska). 50 watts. Alaska Southern Packing Co.			
KGQ, Todd, Alaska. Peril Straits Packing Co.			
KIJP, Uganik, Alaska. Works KIJR, KIJU. San Juan Fishing & Packing Co.			

SHORT WAVE STATIONS BY FREQUENCIES

KIJR, Port San Juan, Alaska. Works KIJP, KIJU. Address KIJP.	3.155 megs.	95.03 m.
KIJU, Todd, Alaska. Works KIJR, KIJP. Peril Straits Packing Co.	KBCJ, San Francisco, Calif. Weather Bureau.	
WNFJ, M. S. Sunset. Alaska Southern Packing Co. Kenai, Alaska.	3.170 megs.	94.58 m.
	YD04, Soerabaja, N. E. I. Owner: Jarico.	
2.994 megs.	100.14 m.	
KAEF, Jack Wade, Alaska. 40 w. Territory of A.		
KDY, Pillar Bay, Alaska. Fidalgo Island Packing Co.		
KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Growden.		
KIJJ, Tanana, Alaska. Northern Commercial Co.	3.190 megs.	93.99 m.
KIJK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.	KIJJ, Tanana, Alaska. Northern Commercial Co.	
KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP Fairbanks, and WXE Anchorage. Northern Commercial Co.	KIJK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co.	
KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.	KIIL, Fort Yukon, Alaska. 50 watts. See KIJK above.	
KIIN, Eagle, Alaska. 50 watts. See KIIL above.	KIIM, Hot Springs, Alaska. 50 watts. See KIJK above.	
KIIO, McGrath, Alaska. 50 watts. See KIIL above.	KIIO, McGrath, Alaska. 50 watts. See KIJK above.	
KIJB, Cape Pole, Alaska. 50 watts. A. R. Brueger.	YDK2, Semarang, N. E. I. Owner: Wels.	
KILY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.		
KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.		
	3.200 megs.	93.69 m.
3.040 megs.	98.62 m.	
CFQ, Edmonton, Alta. Edmonton Journal, Ltd.	KBAL, North Bend, Wash. Forestry.	
CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.	KBAP, Seattle, Wash. Forestry.	
CKS, Portland. 100 watts. Calgary Herald; see above.	KBCC, Mt. Shasta, Calif. Forestry.	
YDA, Tandjongpriok, N. E. I. 10 kW. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	3.210 megs.	93.40 m.
	YDL5, Djokjakarta, N. E. I. Owner: Helant Muller.	
3.070 megs.	97.66 m.	
CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.		
WKDL, Miami, Fla. (airway).	3.230 megs.	92.82 m.
WMDU, San Juan, Puerto Rico. (airway).	YDQ4, Malang, N. E. I. Owner: Radinova.	
3.093 megs.	96.94 m.	
KAED, Angoon, Alaska. 40 w. Territory of A.	3.250 megs.	92.25 m.
KIAP, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Co.	YDH5, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.	
KIAW, Port Althorp, Alaska. Address KIAP above.		
KIAY, Ketchikan, Alaska. Address KIAP above.	3.265 megs.	91.83 m.
KIBA, Kake, Alaska. Address KIAP above.	KAEB, Hyadburg, Alaska. 40 w. Territory of A.	
KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.	KIBZ, Waterfall, Alaska. Nakat Packing Corp.	
KIIP, Willow Creek Mines, Luckyshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle.	KICE, Nakeen, Alaska. Nakat Packing Corp.	
KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.	KICG, Union Bay, Alaska. Nakat Packing Corp.	
KIUZ, Hoonah, Alaska. 40 w. Territory of A.	KIDE, Hidden Inlet, Alaska. Nakat Packing Corp.	
	KIKY, Saldovia, Alaska. 40 watts. Adam W. Lipke.	
3.125 megs.	95.94 m.	
SHIPS work between 3.125 and 3.147 megs. (95.27 to 95.94 meters).	3.285 megs.	91.74 m.
A number of SHIPS are listed on 4.413 megs. and 4.430 megs. We do not know definitely which of these ships work also on 3.125-3.147 megs. Reports of actual reception from listeners are invited.	CGP, Prince Rupert, B. C. North-West Telephone Co., Cor. 2nd Ave. and Wylie St., Vancouver, B. C.	
3.130 megs.	95.79 m.	
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.	3.270 megs.	91.69 m.
	YDA7, Pekalongan, N. E. I. 15 watts.	
3.150 megs.	95.18 m.	
YDG3, Batavia, Java, N. E. I. Owner: Luyks.	YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.	
	YDK4, Magelang, N. E. I. Owner: v. Wingen.	
3.152 megs.	95.12 m.	
CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	3.290 megs.	91.13 m.
CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.	YD03, Soerabaja, N. E. I. Owner: Radio Electric.	
	3.300 megs.	90.85 m.
	CZV, Waterloo Mine, B. C. Waterloo Gold Mines, Ltd.	
	KBAT, Olympia, Wash. Forestry.	
	KBAU, Quilcene, Wash. Forestry.	
	KBCQ, Boise, Idaho. Forestry.	
	YDG7, Batavia, Java, N. E. I. Owner: Pianohandel Kok.	
	3.310 megs.	90.58 m.
	YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.	
	3.320 megs.	90.31 m.
	YDM2, Tjopoe, N. E. I. Radio Vereeniging.	
	3.330 megs.	90.04 m.
	YDV2, Sandjermasin, Borneo, N. E. I. Owner: Eureka.	
	3.340 megs.	89.77 m.
	CGD, Drummondville, P. Q. Private station of Canadian Marconi Co., P. O. Box 1690, Montreal, P. Q.	
	CGM, Montreal, P. Q. Private CMC station. Address CGD above.	
	3.345 megs.	89.63 m.
	SP33, Weaverville, Calif. Forestry.	

SHORT WAVE STATIONS BY FREQUENCIES

YDQ3, Malang, N. E. I., operated by Malangsche Radio Vereeniging. Owner: W. Lammerce, c/o Radio-Technisch Bureau Lammerce, Bromostraat 21a, Malang.	3.350 meps.	89.50 m.
KBAA, Portland, Ore. Forestry. KBCA, Santa Barbara, Calif. KBCB, Santa Barbara, Calif. KBCG, Yreka, Calif. KBCH, Oakland, Calif.	3.385 meps.	88.57 m.
KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Ranier National Park, Longmire. KGYB, Longmire, Wash. Address KGYA above. KGYC, Paradise Inn, Mt. Ranier National Park, Longmire, Wash. KGYD, Sunrise Lodge, Mt. Ranier Park, Longmire, Wash. KGYE, White River, Wash. Address KGYA above. KGYF, Carbon River, Wash. Address KGYA above. KGYG, Portable station of the Forestry Dept. of the State of Washington. KGYH, same as KGYG above. KGYI, Seattle, Wash. Forestry. KNDK, Mt. Olympus Natl. Mon., Wash. Forestry. KNDL, Mt. Olympus Natl. Mon., Wash. Forestry. KNDM, Mt. Olympus Natl. Mon., Wash. KNDP, Anderson Park, Mt. Olympus Mon., Wash. KNDI, Pt. Angeles, Wash. KNDS, Low Divide, Mt. Olympus Mon., Wash. KNDT, Mt. Olympus Natl. Mon., Wash. KNLS, Gobblers Knob, Mt. Ranier Park, Wash. KNLT, Cataract Creek, Wash. Forestry. KNLU, Tolmie Peak, Mt. Ranier Park, Wash. KNLV, Fremont, Wash. Forestry. KNLX, Shriners Peak, Mt. Ranier Natl. Park, Wash.	3.387 meps.	88.50 m.
YDQ2, Djember, N. E. I. Owner: v. Wingen.	3.390 meps.	88.44 m.
KBAD, Spokane, Wash. KNKG, Ash Mt., Sequoia Natl. Park, Calif. KNLO, Death Valley National Monument, Calif. KNLP, Wild Rose Canyon, Death Valley, Calif. KNLQ, Trona, Death Valley, Calif. KNLR, Lone Pine, Death Valley, Calif. WRJ, Poe Reef Lighthouse, Mich. Dept. of Commerce. Bureau of Lighthouses. WST, Dry Tortugas Lighthouse, Fla. Address WRJ above. WWAJ, Manitou Island Lighthouse, Mich. Address WRJ above. WWAL, Passage Island Lighthouse, Mich. Address WRJ above. WWAM, Rock of Ages Lighthouse, Mich. Address WRJ above. WWAO, Huron Island Lighthouse, Mich. Address WRJ above. WWE, Fourteen Foot Shoals Lighthouse, Mich. Address WRJ. WWG, Cheboygan Range Lighthouse, Mich. Address WRJ above. WWH, Stannard Rock Lighthouse, Mich. Address WRJ above. WWHJ, Delaware Breakwater Station, Philadelphia, Pa. Address WRJ. WWM, Marquette Lighthouse, Mich. Address same as WRJ above. WWN, Detroit River Lighthouse, Mich. Address WRJ above. WWR, Detroit, Michigan. Lighthouse station. Address WRJ. WWZ, Key West, Fla. Lighthouse. Address WRJ above. YDL4, Djokjakarta, N. E. I. Owner: Vadera.	3.410 meps.	87.92 m.
WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., N. Y. C.	3.423 meps.	87.59 m.
YD02, Soerabaja, N. E. I. Owner: Soekaradio.	3.430 meps.	87.41 m.
KBAM, Grants Pass, Ore. Forestry. KBBD, North Fork, Calif. KBCE, North Fork, Calif. KBCF, North Fork, Calif.	3.445 meps.	87.03 m.
YDL3, Solo, N. E. I.	3.450 meps.	86.90 m.
CJU, Winnipeg, Man. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.	3.452 meps.	86.85 m.
YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.	3.470 meps.	86.40 m.
YDH3, Bandoeng, Java, N. E. I. Owner: de Kort.	3.490 meps.	85.91 m.
W7XK, Seattle, Wash. 80 watts. Northern Radio Co., Kulien Bldg.	3.493 meps.	85.83 m.
AMATEURS WORK BETWEEN 3.500 and 4.000 meps. (74.96 to 85.56 meters). Phones between 3.900 and 4.000 meps.		
CT1CT, Lisbon, Portugal. 500 watts. "Radio Eddy-stone." Sr. Oscar G. Lomelino, Rua Gomez Friere 79, 2-D, Lisbon. Daily. 0900-1100.	3.750 meps.	79.95 m.
ZP11, Asuncion, Paraguay.	3.800 meps.	78.90 m.
CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgrada. Wed., Sat., 1700-1900.	4.000 meps.	74.96 m.
WND, Hialeah, Fla. 400 watts. Phones ZFS Nassau.	4.098 meps.	73.16 m.
AIRWAY GROUND STATIONS, as follows: WEEA, Atlanta; WEEB, Baltimore; WEEC, Charleston; WEEF, Spartanburg, S. C. WEEH, McRae, Ga.; WEEJ, Jacksonville; WEEM, Miami; WEEN, Linden, N. J.; WEEO, Orlando; WEER, Richmond; WNEZ, Camden; WOER, Raleigh; WOES, Savannah; WOET, Charlotte; WOEV, Louisville.	4.122 meps.	72.74 m.
KIFM, Fairbanks, Alaska. Airway.	4.124 meps.	72.70 m.
WOO, Ocean Gate, N. J. 20 kW. Phones ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.	4.178 meps.	71.76 m.
WOY, Lawrenceville, N. J. 20 kW. Address WOO, Tavernier, Fla.	4.200 meps.	71.39 m.
YT2, Fort Lewis, Wash. Army Airway.	4.243 meps.	70.66 m.
WKF, Lawrenceville, N. J. A. T. & T. Address WOO above.	4.253 meps.	70.50 m.
WOG, Ocean Gate, N. J.		

SHORT WAVE STATIONS BY FREQUENCIES

RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far East Radio Station." Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.	4.273 megs.	70.16 m.	GLRZ, S. S. Aquitania. Address GBZW.
WIR, Rocky Point, N. Y. 30 kW. Works Port-au-Prince, Santo Domingo. Address R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.	4.276 megs.	70.11 m.	GBC, Rugby, England. Works ships. Address GDB, 4.320 megs.
IBEJ, S. S. Conte Rosso. Works IAC, WOO.	4.280 megs.	70.05 m.	GDLJ, S. S. Homeric.
IBGI, S. S. Conte Verde. Works IAC, WOO.	4.280 megs.	70.05 m.	VQJM, S. S. Monarch of Bermuda.
IBLI, S. S. Conte di Savoia. Works IAC, WOO.	4.280 megs.	70.05 m.	VQJP, S. S. Queen of Bermuda.
ICEJ, S. S. Rex. Works IAC, WOO.	4.280 megs.	70.05 m.	CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
WTDV, St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie.	4.295 megs.	69.81 m.	YDB, Soerabaja, N. E. I. 1 kW.
WTDW, St. Croix, Virgin Islands. 250 watts.	4.295 megs.	69.81 m.	VDC, Calgary, Alta. Two Bros. Valley Gold Mines, Ltd.
WTDX, St. John, Virgin Islands. 250 watts.	4.295 megs.	69.81 m.	VDV, Two Brothers Lake, B. C. Address VDC, Calgary.
DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany.	4.320 megs.	69.40 m.	CGO, Ocean Falls, B. C. North-West Telephone Co., Corner 2nd Ave. and Wylie St., Vancouver, B. C.
GDB (G6RX), Rugby, England. 15 KW. Engineer-in-Chief, GPO (Radio Section), Armour House, St. Martins Le Grand, London EC1, England.	4.320 megs.	69.40 m.	CZO, Prince George, B. C. Address CGO above.
CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	4.348 megs.	68.92 m.	CZP, Claydon Bay, B. C. Address CGO above.
IAC, Coltano, Italy. 56 kW. Phones ships. Radiomartittimo Coltano Radio IAC, Piza, Italy.	4.355 megs.	68.84 m.	ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.
FNSK, S. S. Normandie. Works Paris. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.	4.390 megs.	68.30 m.	WDG, Rocky Point, N. Y. 40 kW. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.
RRZ, Moscow, U. S. S. R. 1kW.	4.400 megs.	68.14 m.	WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.
FNSK, S. S. Normandie. Works WOO. Address 4390 megs.	4.410 megs.	67.99 m.	DJG, Zeesen, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.
All these ships work with WOO. The German ships also work DAF; British ships with GBC:	4.413 megs.	67.94 m.	HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.
DDBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City.	4.413 megs.	67.94 m.	KMYA, Juneau, Alaska. Forestry.
DDCP, S. S. Cap Polonio.	4.413 megs.	67.94 m.	YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.
DDFF, S. S. Reliance.	4.413 megs.	67.94 m.	WOO Ocean Gate, N. J. Phones ships. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.
DDFT, S. S. Oceana.	4.413 megs.	67.94 m.	WOY, Lawrenceville, N. J. 20 kW. Address WOO above.
DHAO, S. S. Albert Ballin. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. C.	4.413 megs.	67.94 m.	CFU, Rossland, B. C. Consolidated Mining & Smelting Co.
DHDL, S. S. Cap Arcona.	4.413 megs.	67.94 m.	CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.
DHEY, S. S. Deutschland.	4.413 megs.	67.94 m.	YDE2, Solo, N. E. I. 100 watts.
DHJZ, S. S. Hamburg. Address DHAO above.	4.413 megs.	67.94 m.	YDL2, Solo, N. E. I. Owner: Solosche Radio Vereeniging.
DHRL, S. S. New York. Address DHAO above.	4.413 megs.	67.94 m.	GDW, Rugby, England. Phones N. Y. Engineer-in-Chief, GPO, (Radio Section), Armour House St. Martins Le Grand, London EC1.
DOAH, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.	4.413 megs.	67.94 m.	
DOAI, S. S. Europa. Address DOAH, above.	4.413 megs.	67.94 m.	
FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City.	4.413 megs.	67.94 m.	
FTNQ, S. S. Ile de France. Address FNSM above.	4.413 megs.	67.94 m.	
GFVV, S. S. Majestic. Address GBZW above.	4.413 megs.	67.94 m.	
GMBJ, S. S. Empress of Britain.	4.413 megs.	67.94 m.	
GMIQ, S. S. Belgenland. Address GBZW above.	4.413 megs.	67.94 m.	
GBZW, S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.	4.415 megs.	67.91 m.	

SHORT WAVE STATIONS BY FREQUENCIES

4.840 megs. CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.	61.95 m.	5.435 megs. LSH, Buenos Aires, Argentina. Compania Radiotelegrafica Arg., San Martin 301-329.	55.16 m.
4.865 megs. CGT, Campbell River, B. C. North-West Telephone Co., Corner 2nd and Wylie St., Vancouver, B. C.	61.63 m.	5.440 megs. RSN, Sverdlovsk, USSR. 10 kW.	55.11 m.
4.875 megs. RKF, Moscow, USSR. 20 kW.	61.50 m.	5.490 megs. ROI, Sverdlovsk, USSR. 15 kW.	54.61 m.
4.975 megs. GBC, Rugby, England. 5kW. Phones ships GDW, 4.820 megs.	60.27 m.	5.505 megs. WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	54.46 m.
4.988 megs. WWAD, S. S. Violet. Works Lighthouses on Great Lakes.	60.11 m.	5.520 megs. TI5HH, San Ramon, Costa Rica. 200 w. "La Voz de San Ramon." Address Sres. Herrera. Daily 1530-1700; 2000-2130.	54.32 m.
5.000 megs. WVW, Beltsville, Md. 1 kW. Standard frequency service, Wed., 1430-1530. Nat'l Bureau of Standards, Washington, D. C.	59.96 m.	5.540 megs. VXU, Regina, Sask. Dept. of Natural Resources, Govt. of the Province of Sask. VXV, Hudson Bay Junction, Sask. Address VXU VXW, Portable. Address VXU above.	54.11 m.
5.015 megs. IS3, Bolling Field, Va. United States Army airport.	59.78 m.	5.550 megs. I2RO, Rome, Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.	54.02 m.
5.025 megs. ZFA, St. George (Hamilton) Bermuda. 1.5 kW. Phones WOB nights.	59.67 m.	5.660 megs. CFD, Kenora, Ont. 150 watts. Ont. Dept. of Lands and Forests. CFJ, Red Lake Ont. Address CFD above. CFN, Slate Creek, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd. CFU, Rossland, B. C. Address CFN above.	52.97 m.
5.040 megs. RIR, Tiflis, USSR. 4 kW.	59.59 m.	5.710 megs. JDZ, Darien. Works JVU nazaki.	52.51 m.
5.078 megs. WCN, Lawrenceville, N. J. Works GDW nites. AT&T, 32 Sixth Ave., N. Y. C. Big Pine Key, Fla.	59.06 m.	5.720 megs. YV1ORSC, San Cristobal, Venezuela. "La Voz de Tachira." Jesus M. Diaz Gonzalez.	52.42 m.
5.138 megs. KIIO, McGrath, Alaska. Northern Commercial Co.	58.35 m.	5.725 megs. I2RO, Rome, Italy. Address EIAR, 5.550 megs.	52.37 m.
5.140 megs. PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nillmy Bldg., Bandoeng. 0040-0240; 0640-0940.	58.33 m.	5.730 megs. JVJ, Nazaki, Japan. Works JIA, JIB, JIC at Taiwan. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	52.32 m.
5.198 megs. Big Pine Key, Fla.	57.68 m.	5.765 megs. KZGF, Manila, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	52.00 m.
5.260 megs. YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.	57.00 m.	5.780 megs. CMB, Havana, Cuba. Cuba Transatlantic Radio Corp. OAX4D, Lima, Peru. "Radio DUSA." Interval sig.: 2 cuckoos. "The Voice of Peru." Sign off: "A Perfect Day." All America Cables, Box 858. Wed., Sat., 2100-2330.	51.87 m.
5.265 megs. WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	56.96 m.	5.790 megs. JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Address JVJ, 5730 megs.	51.78 m.
5.300 megs. ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS. 4.512 megs.	57.57 m.	5.795 megs. KZGH, Iloilo, P. I. (Iloilo Island). Inter-Island phone. Philippine Long Distance Tele. Co.	51.74 m.
5.375 megs. RSB, Stalinsk, USSR. 2 kW.	55.78 m.	5.800 megs. YV2RC, Caracas, Venezuela. 1kW. "Broadcasting Caracas." "La Habla a la Nacion." Int sig: 4 chimes. sign off: "March 1BC" address: Apartado 2009.	51.69 m.
5.400 megs. HAT, Szekesfehervar, Hungary. 6 kW. "Justice for Hungary!" Announcements: French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserletel Alomas, IX Kerulet Gyali Ut 22, Budapest, Hungary.	55.52 m.	5.810 megs. YV7RMO, Maracaibo, Venez. "Radiodifusora Maracaibo."	51.60 m.
HJA7, Cucuta, Colombia. Colombian Petroleum Corporation.			
5.405 megs. CGP, Prince Rupert, B. C. Address CGT, 4.865 megs. CZQ, Anyox, B. C. Address CGT, 4.865 megs. VXX, Sage Creek, B. C. Address CGT, 4.865 megs. WKDL, Miami, Fla. Airways. WMDU, San Juan, Puerto Rico. Airways.	55.47 m.		
5.415 megs. IAF, Fiumicino, Italy. 5 kW	55.37 m.		

SHORT WAVE STATIONS BY FREQUENCIES

HCK, Quito, Ecuador.	5.815 megs.	51.56 m.	HJ2ABD, Bucaramanga, Colombia. 100 watts. Sr. Hector McCormick.
CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.	5.820 megs.	51.52 m.	XEBI, Mexico City, D. F. Apartado 2874.
TIGPH, San Jose, Costa Rica. "Alma Tica." 1900-2200.	5.825 megs.	51.47 m.	RPT, Tashkent, USSR. 1 kW.
HJA2, Bogota, Colombia.	5.825 megs.	51.47 m.	WVD, Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.
KZGG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	5.830 megs.	51.43 m.	..... "Radio-Tananarive," Tananarive, Madagascar. Theme song: Ramona. 500 watts. Administration des Postes des Telegraphes et des Telephones. Sun., 0230-0400; daily exc. Sun. and Mon., 0300-0345.
WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.	5.830 megs.	51.43 m.	RV59, Moscow, USSR. 20 kW. Kremlin chimes at 4 p.m. EST. sign off: l'Internationale. Add: Inna Marr, Central Radio Committee. Petrovka 12, Moscow. (temporarily discontinued).
CWD, Montevideo, (Cerrito), Uruguay. 1.5 kW.	5.845 megs.	51.30 m.	..... "Radio Nacional," 6.000 megs. 49.97 m.
JZC, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Address: Manchukuo Telephone & Telegraph Co., Ltd.	5.845 megs.	51.30 m.	..... "Radio Nacional" Relays TGW. address: Ministerio de Fomento.
KRO, Kahuku, Oahu, T. H. (Off the air?)	5.850 megs.	51.25 m.	XEBT, Mexico City, D. F. 1kW. Interval sig.: cuckoo, rooster, bugle, auto horn, fire bell. Relays XEB. Add: El Buen Tono S. A., Apartado 79-44. Daily 1000 to 0115.
..... Kahuku, T. H. To work GMBJ.	5.850 megs.	51.25 m.	XGOX, Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang. Nanking.
WOB, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	5.865 megs.	51.12 m.	..... 6.005 megs. 49.93 m.
YV5RMO, Maracaibo, Venezuela. "Ecos del Caribe." (member Cadena Indo-Americana.) One gong precedes station announcement. Programs close with Blue Danube March. Address: Sr. Santiago M. Vegas, Apartado 214. Daily exc. Sun., 1130-1300; 1730-2130.	5.865 megs.	51.12 m.	VE9DN, Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.
HIIJ, San Pedro de Macoris, D. R. Daily 1700-2030.	5.875 megs.	51.03 m.	VE9DR, Montreal, P. Q. Address VE9DN above.
HRN, Tegucigalpa, Honduras. 400 w. "La Voz de Honduras." Daily 2000-2200.	5.875 megs.	51.03 m.	..... 6.006 megs. 49.92 m.
YV8RB, Barquisimeto, Venezuela. "La Voz de Lara."	5.880 megs.	50.90 m.	HJ1ABJ, Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.
JIC, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	5.880 megs.	50.90 m.	..... 6.010 megs. 49.89 m.
HJ4ABE, Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300. Owner: Jose M. Acevedo F.	5.900 megs.	50.82 m.	COCO, Havana, Cuba. Add: P. O. Box 98. Daily. 0930-1300; 1600-1900. Saturday, 2330-0030, special program for all s. w. clubs (programa dedicado a los clubs de ondas cortas).
..... 5.940 megs. 50.47 m.	5.900 megs.	50.82 m.	HJ1ABC, Quibdo, Colombia.
TG2X, Guatemala City, Guat. 200 w. "Policia Nacional."	5.940 megs.	50.47 m.	..... 6.012 megs. 49.87 m.
..... 5.970 megs. 50.22 m.	5.940 megs.	50.47 m.	HJ3ABH, Bogota, Colombia. 1.2 kW. "La Voz de la Victor." Member, Cadena Indo-Americana. Add: Manuel J. Gaitan, Almacenes Victor. Apartado 565. Sun., 1200-1400; 1600-2100. Other days, 1130-1400; 1800-2300.
HVJ, Vatican City. 10 kW. Interval sig: clock ticking for 10 minutes preceding xmission; bells of St. Peters at 3 o'clock. Announcement "Laudatur Jesus Christus". Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticano, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: Sundays and holidays, 0500-0530. Daily, 1400-1415.	5.970 megs.	50.22 m.	..... 6.020 megs. 49.80 m.
..... 5.975 megs. 50.18 m.	5.975 megs.	50.18 m.	DJC, Zeeson, Germany. 8 kW. Programs close with "Deutschland Ueber alles" and "Horst Wesselied." Programs preceded by a music box tune, "Ever be True and Honest." Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
HJ2ABC, Cucuta, Colombia. 250 watts. "La Voz de Cucuta." Interval sig: chimes C-D-E-F-C. Address, J. Alejandro Sanchez. Week days, 1190-1200; 1830-2100.	5.980 megs.	50.14 m.	XEUW, Veracruz, Mexico. 50 w. "El eco de Sotavento desde Veracruz." Radiodifusora Comercial XEU, Independencia 98.
..... 5.980 megs. 50.14 m.	5.980 megs.	50.14 m.	..... 6.030 megs. 49.72 m.
HIX, Santo Domingo, D. R. Mr. J. R. Saladin, Director HIX. Tues., Fri., 2000-2200.	5.980 megs.	50.14 m.	HPSB, Panama City, Panama. 100 watts. "Estacion Miramar." Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.
			VE9CA, Calgary, Alta. 100 watts (input). "The Voice of the Prairie." Add: Voice of P., Ltd., Calgary. Thurs., 0900-0200; Sun., 1200-2400; other days, 0900-2400.

SHORT WAVE STATIONS BY FREQUENCIES

6.040 megas. 49.64 m
PRAS, Pernambuco, Brazil. 3 kW. "A Vox do Norte." Radio Club Pernambuco, Ave. Cruz Cabaga 394.

1910-12-20-30
W1XAL, Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.

W4XB, Miami, Fla. (transmitter on Collins Island). 2500 watts. Relays **WIOD**. Isle of Dreams Broadcasting Co. Sun., 1130-1500; 1700-2400. Weekdays, 1200-1400; 1730-2400.

YDA, Tandjongpriok, N. E. I. 10 kW. Key Station, **NIROM** Network. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java. N. E. I. 0530-1100; 1745-1845; 2230-0130.

6.042 megas. 49.62 m
HJ1ABG, Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member. Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.

6.050 megas. 49.56 m
GSA, Daventry, England. 20 kW. "A for Aerial." Interval sigs: Bow Bells and Big Ben. Sign off: God Save the King. British Broadcasting Corp., Broadcasting House, London W. 1, England.

6.060 megas. 49.48 m
HJ4ABD, Medeklin, Colombia. "La Voz de Catia." **OXY**, Skamlebaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradiofonien, Heibergsgade 7, Copenhagen. Daily 1300-1830.

1910-12-20-30
VQ7LO, Nairobi, Kenya Colony. Cable & Wireless Ltd. Box 777. Tues., 0300-0400; Mon., Wed., Fri., 0545-0615; Thurs., 0800-0900; Sat., 1100-1530; daily exc. Sat., 1100-1400.

W3XAU, Philadelphia (Newton Square). Pa. Relays **WCAU**, CBS, **WCAU** Building, 1622 Chestnut St. 2100-2300.

W8XAL, Cincinnati (Mason), Ohio. 10 kW. Relays **NBC-WLW**. **Crosley** Radio Corp., 1329 Arlington St. Daily exc. Sun., 0630-2000; Sun., 0800-2000; daily exc. Sat., 2300-0200; Sat., 2300-0300.

ZHI, Singapore, Straits Settlements. 180 watts. Technical Director, Radio Service Co. of Malaya, Broadcast House 2 and 4, Orchard Road. Sat., 2300-0130; Mon., Wed., Thurs., 0600-0830.

6.065 megas. 49.43 m
HH2F, Port au Prince, Haiti.

6.070 megas. 49.39 m
HH2S, Port au Prince, Haiti.
HP5H, Colob, Panama.

IRA, Rome, Italy. Address **EIAR**, 5.550 megas.
VE9CS, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.

6.072 megas. 49.37 m
CQN, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0308-0500.

OER2, Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.

6.080 megas. 49.31 m

CPS, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.
DJMI, Zeeson, Germany. Address, **DJC**, 6.020 megas.
HJN, Bogota, Colombia. Sr. Luis Ramirez Arana, Jefe del Servicio de Inalambricos, Ministerio de Correos y Telégrafos.

VE9EH, Charlottetown, P. E. I. 250 watts. Relays **CFCY**. Island Radio Broadcasting Co., Ltd., 143 Great George St.

W9XAA, Chicago, Ill. 500 watts. Relays **NBC-WCFL**. Daily exc. Sun., 0930-1800; Sun., 1130-2100. Mr. Maynard Marquardt, Chicago Federation of Labor, 666 Lake Shore Drive.

ZHJ, Penang, Straits Settlements. 49 watts. Hon. Secy., Penang Wireless Society, 40 Perak Road. Daily exc. Sun., 0640-0840.

6.085 megas. 49.27 m
12R0, Rome, Italy. Address **EIAR**, 5.550 megas.

6.090 megas. 49.23 m
CRCX, Bowmanville, Ont. 200 watts. Relays Canadian Radio Commission-**CRCT**. Address: R. R. No. 4. Daily 1830-2330.
VE9BJ, St. John, N. B. 50 watts. C. A. Munro Ltd., Canterbury Street.

6.100 megas. 49.16 m
HJ4ABL, Manizales, Colombia. 150 watts. "L for Lady." "Ecos del Occidente." Chimes at midnight. Apartado 50. Sat., 2300-0100.
W3XAL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C. Relays **NBC-WJZ**. Mon., Wed., Sat., 1700-1800; Sun., 0000-0100.

W9XF, Chicago (Downers Grove), Ill. 5 kW. Relays **NBC-WENR**, N. B. C., Merchandise Mart, Chicago.

ZTJ, Johannesburg, U. of So. Africa. 5 kW. African Brdcastg. Co., Box 4559, Johannesburg.

6.110 megas. 49.07 m
CHNX, Halifax, N. S. Maritime Broadcasting Co., Ltd., Box 998.

GSL, Daventry, England. "L for Liberty" Int. sigs: Bow Bells and Big Ben. Sign off: God Save the King. Address **GSA**, 6.050 megas. Daily, 2200-2300.

HJ4ABB, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.
VE9CG, Calgary, Alta. Calgary Herald, Ltd.

6.112 megas. 49.05 m
VUC, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.

6.115 megas. 49.03 m
HJ1ABE, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31.

6.120 megas. 48.99 m

W2XE, New York, N. Y. (Wayne, N. J.) 10 kW. Relays **CBS-WABC** Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. C. Daily, 1800-2300.

XEFT, Veracruz, Ver. 20 w. "La Voz de Veracruz." Jose Rodriguez Lopez, Manager, Av. Independencia 28.

YDA5, Bandoeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Tegallegah 0.23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.

6.125 megas. 48.95 m
ZGE, Kuala Lumpur, Federated Malay States. 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.

6.130 megas. 48.91 m

COCD, Vedado, Havana, Cuba. 350 watts. "La Voz del Aire." Int. sig.: 4 chimes. Relays **CMCD**. Address: Hotel Palace, Calle 25 y G. Vedado, Havana. Sun., 1700-2300. Weekdays, 1100-2400.

SHORT WAVE STATIONS BY FREQUENCIES

LCL, Jeloy, Norway. Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.	6.385 megas.	46.94 m.
TGXA, Guatemala City, Guat. 20 w. Liberal Progresista.	W09, Mitchell Field, Mineola, Long Island. Army airport.	
XEOK, Tiajuana, B. C., Mex. Relays XEOK. Carlos de la Sierra, Box 1441, San Diego, Calif.	WTR, Albrook Field, Canal Zone. Army airport.	
6.132 megas.	6.400 megas.	46.85 m.
CTIGO, Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.	YV9RC, Caracas, Venez. "Ondas Populares."	
6.135 megas.	6.410 megas.	46.77 m.
RKK, Moscow, USSR. 20 kW.	TIPG (TI2PG), San Jose, Costa Rica. 1 kW. "La Voz de la Victor." Perry Girtton, Apartado 224. Sun., 0600-0700; 1100-2230. Weekdays, 1100-1300; 1730-2230.	
6.140 megas.	6.425 megas.	46.66 m.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.	CZG, Prince Rupert, B. C. B. C. Provincial Police. VE9AS, Fredericton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick.	
6.145 megas.	6.440 megas.	46.56 m.
....., Villejust, France. 120 kW. (Under constr.)	RTA, Novosibirsk, USSR. 15 kW.	
6.150 megas.	6.445 megas.	46.52 m.
CJRO, Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.	PD1, Maxwell Field, Montgomery, Ala. Army airport. PE2, Wright Field, Dayton, Ohio. Army airport.	
C09GC, Santiago de Cuba. Relays CMKB. "Ask for Bacardi." Laboratorio Radio-electrico. Sres. Grau y Caminero, Apartado 137. Daily, 0930-1000; 1245-1330; 1530-1615.	6.447 megas.	46.50 m.
CSL, Lisbon, Portugal.	HJ1ABB, Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJ1ABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.	
HJ5ABC, Cali, Colombia.	6.450 megas.	46.48 m.
YV3RC, Caracas, Venezuela. "Radiodifusora Venezuela YV3RC en Caracas." Bajos Pasaje Ramella. 1700-2200.	HJ4ABC, Ibague, Colombia. "Ecos de Combeima." Mario M. Barrios, Aptde. 39.	
6.170 megas.	6.490 megas.	46.20 m.
HJ2ABA, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana. Sr. Pompelio Sanchez.	HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.	
6.185 megas.	6.500 megas.	46.13 m.
HI1A, Santiago de los Caballeros, D. R. "La Voz del Yaque."	HIL, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623 HI4D, Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.	
6.200 megas.	6.520 megas.	45.98 m.
HJ3ABF, Bogota, Colombia. 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.	YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.	
6.230 megas.	6.550 megas.	45.76 m.
OAX4G, Lima, Peru. Relays OAX4B. R. Grellaud y Cia.	TIRCC, San Jose, Costa Rica. 500 watts. "Radioemisora Catolica Costaricense." Box 1064.	
6.285 megas.	6.590 megas.	45.50 m.
CZA Drummondville, P. Q. Works ships.	ZEA, Salisbury, Southern Rhodesia. 500 watts. Works ZEB.	
6.300 megas.	ZEB, Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.	
HJ1ABH, Cienaga, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.	6.610 megas.	45.36 m.
6.315 megas.	CWE, Cerrito (Montevideo) Uruguay. 1.5 kW.	
HI2, Santo Domingo, D. R. 100 watts. Operator, Frank Hatton, Calle Duarte No. 68. Sat., 2300-0100; daily exc. Sun., 1700-1800.	6.615 megas.	45.32 m.
6.330 megas.	KIKL, Los Angeles, Calif.	
JZG, Nazaki, Japan. 10 kW. Works ships. Kokusaidenwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	WMEP, Suffield, Ohio. 400 watts. Airways.	
6.375 megas.	WMEQ, Wheeling, Ill. Airways.	
YV4RC, Caracas, Venezuela. "La Florida." "Estacion S. A. R." Member: Cadena Indo-Americana. Address: Estacion SAR, Este 10, Bis No. 71, Caracas. Daily 1630-2230	WMEU, St. Petersburg, Fla. 400 watts. Airways.	

SHORT WAVE STATIONS BY FREQUENCIES

WMEV , Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.	6.760 megs.	44.35 m.	CJA6 , Drummondville, P. Q. Address VE9DN, 6.005 megs.
WNEK , Jackson Heights, L. I.	6.790 megs.	44.16 m.	GDB , Rugby, England. Address GDW, 4.820 megs.
6.618 megs. 45.31 m. WVD , Seattle, Wash. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg.	6.796 megs.	44.12 m.	HIH , San Pedro de Macoris, D. R. 150 w. "La Voz del Higuamo." Sr. Domingo Dominguez.
6.620 megs. 45.29 m. PRADO , Riobamba, Ecuador. "Estacion El Prado." Member: Cadena Indo-Americana. Apartado 98. Thurs., 2100-2330 and other nights irregularly.	6.860 megs.	43.71 m.	KEL , Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.
6.645 megs. 45.12 m. FG7 , Langley Field, Va. Army airport.	6.870 megs.	43.64 m.	RKF , Moscow, USSR. 20 kW.
6.650 megs. 45.09 m. HC2RL , Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945.	6.880 megs.	43.58 m.	CGA7 , Drummondville, P. Q. Address VE9DN, 6.005 megs.
IAC , Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs. This frequency has been assigned to certain SHIPS but it is not known whether or not voice is used. Reports from readers of actual VOICE reception are requested.	6.900 megs.	43.45 m.	RKF , Moscow, USSR. 20 kW.
6.662 megs. 45.00 m. WXH , Ketchikan, Alaska. Phones Seattle.	6.905 megs.	43.42 m.	GDS , Rugby, England. 15 kW. Phones N. Y. nights Address GDW, 4.820 megs.
6.666 megs. 44.98 m. ZP10 , Asuncion, Paraguay.	6.928 megs.	43.27 m.	WEZ , Rocky Point, N. Y. Address WDB, 6.718 megs.
6.672 megs. 44.94 m. YVQ , Maracay (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radio-telegrafico.	6.935 megs.	43.23 m.	WEB , Rocky Point, N. Y. Works Paris. Address WDB, 6.718 megs.
6.675 megs. 44.91 m. DGK , Nauen, Germany. Address: Reichspostzentramt, Telegraphentechnisches Reichsam, Schoneberger Strasse 11-15, Berlin-Tempelhof.	6.950 megs.	43.13 m.	WKP , Rocky Point, N. Y. Address WDB, 6.718 megs.
6.690 megs. 44.82 m. CGA6 , Drummondville, P. Q. Address VE9DN, 6.005 megs.	6.976 megs.	42.98 m.	HCETC , Quito, Ecuador. "del Teatro Bolivar."
6.710 megs. 44.68 m. TIEP , San Jose, Costa Rica. "La Voz del Tropico." Sr. Eduardo Pinto Hernandez, Apartado 257. Member: Cadena Indo-Americana. Daily, 1900-2200.	6.990 megs.	42.89 m.	JVS , Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.
6.718 megs. 44.62 m. KBK , Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	7.000 megs.	7.300 m.	41.07 meters to 42.83 meters. Amateur Band. Foreign amateurs use phone in this band. USA, code only.
WDB , Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.	7.005 megs.	42.80 m.	HB9H , Berne, Switzerland. Swiss Shortwave Association, 30 Neungasse, Berne. First Monday each month, 1500-1615.
6.720 megs. 44.62 m. CFU , Rossland, B. C. Consolidated Mining & Smelting Co.	7.080 megs.	42.35 m.	VP3MR , Georgetown, Br. Guiana. "The Voice of Guiana." Sun., 0745-1015; Mon., 1545-1645; Thurs., 1700-1845; Mon., Wed., Sat., 1845-1945.
6.725 megs. 44.57 m. WQO , Rocky Point, N. Y. Address WDB, 6.718 megs.	7.090 megs.	42.29 m.	HKE , Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.
6.735 megs. 44.53 m. KEQ , Kahuku, Oahu, Hawaii. Works California.	7.175 megs.	41.78 m.	CR6AA , Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.
6.750 megs. 44.42 m. JVT , Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG, 6.330 megs.	7.220 megs.	41.53 m.	HAT2 , Szekesferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserlet Allomas, IX Kerulet Gyali Ut 22, Budapest.
6.755 megs. 44.38 m. WOA , Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.			

SHORT WAVE STATIONS BY FREQUENCIES

7.225 mags. 41.50 m. RPK, Moscow, USSR. 20 kW.	7.680 mags. 39.04 m. YBZ, Menado, Celebes. N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-in-charge. Post-Telegraafen Telefoonendienst. Bedrijf der Radiostations op Java, Bandoeng.
7.260 mags. 41.30 m. RFF, Kharkov, USSR. 1kW.	7.685 mags. 39.01 m. HJA3, Barranquilla, Colombia. TIR, Cartago, Costa Rica. Address: Compania Radiografica Internacional de C. R., San Jose.
7.275 mags. 41.23 m. RTZ, Irkutsk, USSR. 15 kW.	7.715 mags. 38.86 m. KEE, Bolinas, Calif. Address KEL, 6.860 mags.
7.280 mags. 41.18 m. HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heroica." Jzd. Villarreal, Director, Apartado 252. Daily, 1945-2115.	7.740 mags. 38.74 m. CEC, La Granja (Santiago) Chile. Address CEC, 5.820 mags.
7.370 mags. 40.68 m. WJN, Rocky Point, N. Y. Address WDB, 6.718 mags.	7.797 mags. 38.47 m. HBP, Prangins (Geneva) Switzerland. 20 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address: M. G. Gallarati, Information Section, League of Nations, Geneva. Sat., 1730-1815.
7.380 mags. 40.63 m. XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores. Sunday, 1800-1900.	7.820 mags. 38.34 m. OCO, Lima (Valverde), Peru.
7.390 mags. 40.57 m. HJ3ABD, Bogota, Colombia. 50 watts. "Colombia Broadcasting." Apartado 509. Daily, 1930-2300.	7.830 mags. 38.29 m. HC2JSB, Guayaquil, Ecuador. Interval sig.: one gong. LQP, Buenos Aires, Arg.
JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 mags.	7.880 mags. 38.05 m. JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.
ZLT2, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	7.920 mags. 37.86 m. GCP, Rugby, England. Address GDW, 4.820 mags.
7.400 mags. 40.51 m. WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 mags.	7.960 mags. 37.67 m. VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A sia) Ltd., 47 York St., Sydney.
7.465 mags. 40.16 m. HJP, Bogota, Colombia. Works Hialeah nights.	XGL, Shanghai, China. Address: XGO, 7.575 mags.
7.470 mags. 40.14 m. JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 mags.	7.968 mags. 37.63 m. HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.
7.510 mags. 39.92 m. JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 mags.	7.980 mags. 37.57 m. VLZ (VK2ME), Pennant Hills (Sydney), Australia. Address VLZ, 7.960 mags.
7.520 mags. 39.87 m. KKH, Kahuku, Oahu, Hawaii. Works Dixon. RKI, Moscow, USSR. 20 kW., Kahuku, Oahu, Hawaii. Works GMBJ.	8.020 mags. 37.38 m. HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 mags.
7.550 mags. 39.71 m. CFQ, Edmonton, Alta. The E. Journal, Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg.	8.035 mags. 37.31 m. CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat.
CKS, Portable. Address CGE above. TI8WS, Puntarenas, Costa Rica. "Ecos del Pacifico." Aptdo. 75.	8.050 mags. 37.24 m. WXA, Juneau, Alaska. Works WVD at 2400.
7.565 mags. 39.63 m. KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	8.070 mags. 37.15 m. IRF, Rome, Italy. Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.
7.575 mags. 39.58 m. XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	8.095 mags. 37.04 m. VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 mags.
7.610 mags. 39.40 m. KWX (W6XN), Dixon, Calif. Address KWY, 7.565 mags.	8.120 mags. 36.92 m. KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 mags.
7.620 mags. 39.35 m. ETA, Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	8.180 mags. 36.85 m. PSK, Rio de Janeiro (Marapicu) Brazil. Phones
7.626 mags. 39.32 m. RIM, Tashkent, USSR. Works RKI. 20 kW.	

SHORT WAVE STATIONS BY FREQUENCIES

N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.	8.770 mags.	34.19 m.	RSZ, Irkutsk, USSR. 15 kW. Tests with RNE.
HCJB, Quito, Ecuador. 150 watts. "La Voz de los Andes." Interval sig.: 4 strokes on gong. Address Clarence W. Jones, Casilla 691, Quito. Sun., 1615-2245; Mon., silent; other days, 1915-2315.	8.775 mags.	34.16 m.	PNI, Macassar, Celebes, N. E. I. 3 kW. Phones Bandoeng. Address YBZ, 7,680 mags.
WNED, Tampa, Fla. Pan American Airways, Inc. ZSV, Walvis Bay, Union of South Africa. 1 kW.	8.790 mags.	34.11 m.	HJA3, Barranquilla, Colombia.
RRD, Moscow, USSR. 20 kW.	8.810 mags.	34.03 m.	FNSK, S. S. Normandie. Works Paris nights. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.
HSP, Bangkok, Siam. 20 kW. Address HSP, 7,968 mags.	8.830 mags.	33.95 m.	SHIPS. For address of these ships refer to 4.413 mags., 4.415 mags and 4.430 mags. All these ships work with WOO. The German ships work also DAF; British ships with GBC and CZA; Furness-Bermuda ships with ZFA-B.
CFW, Montevideo (Cerrito) Uruguay. 1.5 kW.	8.830 mags.	33.95 m.	DBBR, S. S. Berlin.
DAF, Norden, Germany. Works ships. Address Hauptfunkstelle Norddeich, Norden-Land.	8.830 mags.	33.95 m.	DCCP, S. S. Cap Polonio.
JZF, Nazaki, Japan. 10 kW. Works ships. Address JZG, 6,330 mags.	8.830 mags.	33.95 m.	DDFF, S. S. Reliance.
WOO, Ocean Gate, N. J. 20 kW. Works ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.	8.830 mags.	33.95 m.	DDFT, S. S. Oceana.
WOY, Lawrenceville, N. J. 20 kW. Address WOO above.	8.830 mags.	33.95 m.	DHAO, S. S. Albert Ballin.
HAT3, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7,220 mags.	8.830 mags.	33.95 m.	DHDL, S. S. Cap Arcona.
TYD2, Pontoise, France. Phones Rabat.	8.830 mags.	33.95 m.	DHEY, S. S. Deutschland.
YCP, Balikpapan, N. E. I. 3 kW. Address YBZ, 7,680 mags.	8.830 mags.	33.95 m.	DHJZ, S. S. Hamburg.
WVD, Seattle, Wash. Works Alaska at 2400. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	8.830 mags.	33.95 m.	DHRL, S. S. New York.
HC2CW, Guayaquil, Ecuador. "Ondas del Pacifico."	8.830 mags.	33.95 m.	DOAH, S. S. Bremen.
CO9JQ, Camaguey, Cuba. 150 watts. Rafael Grimany, Calle General Gomez No. 4.	8.830 mags.	33.95 m.	DOAI, S. S. Europa.
GBC, Rugby, England. Works ships. Address GDW, 4,820 mags.	8.830 mags.	33.95 m.	FNSK, S. S. Normandie. Works WOO nights. Address 8,810 mags.
VWZ, Kirkee, Poona, India. 10 kW. Works also on freqs. 8,691, 8,693, 8,700 mags. Phones London.	8.830 mags.	33.95 m.	FNSM, S. S. Paris.
VWZ, Kirkee, Poona, India. 10 kW. Phones London.	8.830 mags.	33.95 m.	FTNQ, S. S. Ile de France.
CEC, La Granja, (Santiago) Chile. 800 watts. Address CEC, 5,820 mags.	8.830 mags.	33.95 m.	GBZW, S. S. Berengaria.
ZBW, Hong Kong, 500 w. The Secy., Hong Kong Brdcastg. Committee, P. O. Box 290.	8.830 mags.	33.95 m.	GDLJ, S. S. Homeric.
	8.830 mags.	33.95 m.	GFVV, S. S. Majestic.
	8.830 mags.	33.95 m.	GLRZ, S. S. Aquitania.
	8.830 mags.	33.95 m.	GMBJ, S. S. Empress of Britain.
	8.830 mags.	33.95 m.	GMJQ, S. S. Belgenland.
	8.830 mags.	33.95 m.	VQJM, S. S. Monarch of Bermuda.
	8.830 mags.	33.95 m.	VQJP, S. S. Queen of Bermuda.
	8.900 mags.	33.69 m.	ZLS, Wellington, N. Z. Address Supt. of Post and Telegraphs, GPO.
	8.930 mags.	33.57 m.	WAD, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. City.
	8.940 mags.	33.54 m.	WEC, Rocky Point, N. Y. Address WAD above.
	8.950 mags.	33.50 m.	KZGG, Cebu, Island of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.
	8.975 mags.	33.41 m.	WKL, Rocky Point, N. Y. Address WAD, 8,930 mags.
	9.010 mags.	33.28 m.	WEL, Rocky Point, N. Y. Address WAD, 8,930 mags.
	9.020 mags.	33.24 m.	WVY, Kirkee, Poona, India. Phones London.
	9.040 mags.	33.17 m.	KEJ, Bolinas, Calif. 20-40 kW. Address KEL, 6,860 mags.
	9.050 mags.	33.13 m.	GCS, Rugby, England. 15 kW. Phones N. Y. night.
			TYA2, Pontoise, France. Phones Algeria.
			TFK, Reykjavik, Iceland. 8.5 kW.

SHORT WAVE STATIONS BY FREQUENCIES

9.120 megs.	32.88 m.	German. Address: Director of the Imprensa Nacional. Daily, 1730-1815.
CP6, La Paz, Bolivia. "Illimani Radio." Compania Radio Boliviana, Casilla 637.		
9.125 megs.	32.86 m.	9.510 megs.
HAT4, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2. 7.220 megs.		31.53 m.
		GSB, Daventry, England. 20 kW. "B for Broadcasting." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6.050 megs. Daily, 0115-0315; 1215-1500; 1515-1645.
9.168 megs.	32.70 m.	9.520 megs.
YVR, Santa Rita, Maracay, Venezuela. Address YVQ, 6.672 megs.		31.49 m.
		XEDQ, Guadalupe, Jal. Relays XED. Address Cia. Radiofonografica, Apartado 197. Daily, 0800-0900; 1200-2400.
9.170 megs.	32.70 m.	9.530 megs.
KZGF, Manila, P. I. Inter-Island phone. WNA, Lawrenceville, N. J. Works London. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City		31.46 m.
		W2XAF, Schenectady, N. Y. 40 kW. Relays NBC-WGY. The General Electric Co., Schenectady. "The Voice of Electricity." Programs commence with electrical discharge of 10,000,000 Volts (man-made lightning). Sun., 1615-2400; Thurs., 1700-2300; other days, 1730-2300.
9.280 megs.	32.31 m.	9.540 megs.
GCB, Rugby, England. 15 kW. Phones Canada. Address Engineer-in-Chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.		31.43 m.
		DJN, Zeesen, Germany, 8 kW. Programs close with "Deutschland ueber alles" and "Horst Wessellied." Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 megs.
9.332 megs.	32.13 m.	LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 megs. Daily, 0500-0800.
CGA4, Drummondville, P. Q. Phones London. Address VE9DN, 6.005 megs.		9.550 megs.
		31.39 m.
9.415 megs.	31.84 m.	HH2R, Port au Prince, Haiti.
PLV, Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veen, Post-Telegraafen Telefoonendienst, Bedrijf der Radiostations op Java, Bandoeng.		9.555 megs.
		31.38 m.
9.428 megs.	31.80 m.	VE9DN, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
COCH, Vedado, Havana, Cuba. Slogan: "Cuba, the Evergreen Land." Address: No. 2, B. Street. Daily 1000-1200; 1600-1800; 2100-2200; Relays CMCY Sunday, 1000-1100.		9.560 megs.
		31.36 m.
9.448 megs.	31.74 m.	DJA, Zeesen, Germany. For details see DJN, 9.540 megs.
WES, Rocky Point, N. Y. Address WAD, 8.930 megs.		9.565 megs.
		31.35 m.
9.450 megs.	31.73 m.	VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.
TG1X, Guatemala City, Guat. 200 watts. Ministerio de Fomento.		9.570 megs.
		31.33 m.
9.460 megs.	31.69 m.	W1XK, Millis (Boston), Mass. 10 kW. Relays WBZ-WBZA, NBC programs. "These are the New England Westinghouse stations WBZ, WBZA, W1XK." Address: Westinghouse Radio Stations of New England, Hotel Bradford, Boston. Sunday, 0800-0100; other days, 0700-0100.
WKJ, New Brunswick, N. J. Address WNA, 9.170 megs.		9.575 megs.
9.470 megs.	31.66 m.	31.31 m.
WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 megs.		VUC, Calcutta, India. Refer to VUC, 6.112 megs.
		9.580 megs.
9.480 megs.	31.63 m.	31.30 m.
KES, Bolinas, Calif. RCA Communications, Inc.		GSC, Daventry, England. 20 kW. "C for Corporation." For other details see GSB, 9.510 megs. Daily, 1800-2000; 2200-2300.
		9.590 megs.
9.490 megs.	31.59 m.	31.28 m.
KZGH, Iloilo, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.		VK2ME, Sydney (Pennant Hills), Australia. 12 kW. "The Voice of Australia." Laughing notes of the kookaburra, the Laughing Jackass, various times during program. Sign off: God Save the King. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney. Sundays, 0100-0300; 0500-1100.
OXY, Copenhagen, Denmark. Not used at present.		
SRI, Poznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglasnia, Poznan. (This station is probably off the air).		
9.500 megs.	31.56 m.	
XGOX, Nanking, China. See 6.000 megs.		
9.503 megs.	31.55 m.	
VK3ME, Melbourne, Victoria, Australia (Braybank). 5 kW. Amalgamated Wireless (A/sia) Ltd., Box No. 1272L, Elizabeth St. P. O., Melbourne. Wed., Thurs., Fri., Sat., 0500-0700.		
9.505 megs.	31.54 m.	
PRF5, Rio de Janeiro, Brazil. "Radio Journal." Program consists of talks in Portuguese, Spanish, English and sometimes French,		

SHORT WAVE STATIONS BY FREQUENCIES

Villejust, France. 120 kW. (Under construction.)	9.930 megs.	30.19 m.	HJY, Bogota, Columbia. Phones CEC, OCI evenings.
9.590 megs. 31.26 m.	9.950 megs.	30.13 m.	9.950 megs. 30.13 m.
MP5J, Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.	9.990 megs.	30.01 m.	GCU, Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9,280 megs.
W3XAU, Philadelphia (Newton Square). Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6,060 megs. Daily, 1200-2000.	10.000 megs.	29.98 m.	KAZ, Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.
9.595 megs. 31.25 m.	10.000 megs.	29.98 m.	LSL, Buenos Aires, Argentina. Address LQA, 9,600 megs.
MBL, Prangins (Geneva), Switzerland. 18 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address HBP, 7,797 megs. Sat., 1730-1815.	10.000 megs.	29.98 m.	10.000 megs. 29.98 m.
9.600 megs. 31.23 m.	10.040 megs.	29.86 m.	WVW, Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.
CT1AA, Lisbon, Portugal. 2kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguiar 144. Tues., Thurs., Sat., 1630-1900.	10.040 megs.	29.86 m.	10.040 megs. 29.86 m.
LQA, Buenos Aires, Argentina. Compania Internacional de Radio, Defensa 143, B. A.	10.055 megs.	29.82 m.	SUV, Cairo (Abu Zabal), Egypt, 10 kW. Marconi Radio Telegraph Co., of Egypt, S. A., Box 795, Cairo.
9.609 megs. 31.20 m.	10.055 megs.	29.82 m.	ZFB, Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.
DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6,675 megs.	10.070 megs.	29.77 m.	10.070 megs. 29.77 m.
9.630 megs. 31.13 m.	10.070 megs.	29.77 m.	EHY, Madrid (Pozuelo del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.
12RO, Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.	10.080 megs.	29.74 m.	10.080 megs. 29.74 m.
9.710 megs. 30.88 m.	10.080 megs.	29.74 m.	RIR, Tiflis, USSR. Works RIO, RNE mornings.
GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9,280 megs.	10.135 megs.	29.58 m.	10.135 megs. 29.58 m.
9.750 megs. 30.75 m.	10.135 megs.	29.58 m.	OPM, Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.
RKF, Moscow, USSR. 20 kW.	10.160 megs.	29.51 m.	10.160 megs. 29.51 m.
VLJ, Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME, 9,585 megs.	10.160 megs.	29.51 m.	RIO, Baku, USSR. Works RIR, RNE mornings.
WOF, Lawrenceville, N. J. Address WNA, 9,170 megs.	10.200 megs.	29.34 m.	10.200 megs. 29.34 m.
9.790 megs. 30.63 m.	10.200 megs.	29.34 m.	PSH, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 590.
GCW, Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9,280 megs.	10.250 megs.	29.25 m.	10.250 megs. 29.25 m.
9.830 megs. 30.50 m.	10.250 megs.	29.25 m.	LSL, Buenos Aires (Hurlingham), Argentina. 5 kW.
IRM, Rome, Italy. "Italo Radio"	10.260 megs.	29.22 m.	10.260 megs. 29.22 m.
9.840 megs. 30.47 m.	10.260 megs.	29.22 m.	PMN, Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9,415.
JYS, Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.	10.285 megs.	29.15 m.	10.285 megs. 29.15 m.
9.862 megs. 30.40 m.	10.285 megs.	29.15 m.	DIQ, Koenigswusterhausen, Germany. Address DGK, 6,675 megs.
EAQ, Madrid (Aranjuez), Spain. 20 kW. "La Voz de Espana." Transradio Espanola, S. A., Departamento de Radiodifusion Ibero-Americana, Apartado 951. Programs close with National Hymn. "Himno de Riego." Daily, 1730-1900; Sat., 1200-1400.	10.290 megs.	29.14 m.	10.290 megs. 29.14 m.
9.870 megs. 30.38 m.	10.290 megs.	29.14 m.	HPC, Panama City, Panama.
WON, Lawrenceville, N. J. 20 kW. Works London. Add.: WNA, 9,170.	10.300 megs.	29.11 m.	10.300 megs. 29.11 m.
9.890 megs. 30.32 m.	10.300 megs.	29.11 m.	LSL2, Buenos Aires, Arg. 5 kW. Phones Europe.
LSN2, Buenos Aires (Hurlingham), Argentina. Address LQA, 9,600 megs.	10.310 megs.	29.08 m.	10.310 megs. 29.08 m.
9.895 megs. 30.30 m.	10.310 megs.	29.08 m.	PPM, Rio de Janeiro, Brazil. Works LSX, WCG. WET irreg.
LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9,600 megs.	10.330 megs.	29.02 m.	10.330 megs. 29.02 m.
9.920 megs. 30.22 m.	10.330 megs.	29.02 m.	ORK, Brussels (Ruyssedele), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telegraphes et des Telephones, Direction des Radiocommunications. Bruxelles.
JDY, Darien. Works JVU, Nazaki.	10.335 megs.	29.01 m.	10.335 megs. 29.01 m.
	10.335 megs.	29.01 m.	ZFD, St. George, Bermuda. 1.5 kW. Address reports

SHORT WAVE STATIONS BY FREQUENCIES

	on special transmissions to Town Clerk, St. George.	10.740 mags.	27.92 m.	JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.
LSX,	Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	10.350 mags.	28.97 m.	
EHZ,	El Tablero, Canaries. Works EHX.	10.370 mags.	28.91 m.	
WCG (W2XBJ),	Tuckerton, N. J.	10.375 mags.	28.89 m.	
JVO,	Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address JZG, 6.330 mags.	10.400 mags.	28.83 m.	
KEZ,	Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.	10.410 mags.	28.80 m.	
.....,	Bolinas, Calif. 40 kW. Address KEZ, 10.400 mags.			
PDK,	Kootwijk, Netherlands. 60 kW. Address Radio-laboratory, Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.	10.420 mags.	28.77 m.	
XGW,	Shanghai, China. 20 kW. Address XGO, 7.575 mags.	10.430 mags.	28.75 m.	
YBG,	Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoondienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300.	10.465 mags.	28.64 m.	
WKC,	Rocky Point, N. Y. 100 kW. Address WAD, 8.930 mags.	10.520 mags.	28.50 m.	
VLK,	Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 mags.	10.530 mags.	28.47 m.	
GBX,	Rugby, England. 8 kW. Address GCB, 9.280 mags.	JIB, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.		
WOK,	Lawrenceville, N. J. 20 kW. Address WNA, 9.170 mags.	10.550 mags.	28.42 m.	
WEA,	Rocky Point, N. Y. 40 kW. Address WAD, 8.930 mags.	10.610 mags.	28.25 m.	
EHX,	Madrid (Pozuelo del Rey), Spain.	10.620 mags.	28.23 m.	
JVN,	Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 mags. Mon., Thurs., 1600-1700; daily, 0000-0100.	10.660 mags.	28.13 m.	
CEC,	La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.	10.670 mags.	28.10 m.	
PLQ,	Bandoeng, N. E. I. 60 kW.	10.675 mags.	28.09 m.	
WNB,	Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 mags.			
		10.770 mags.	27.84 m.	GBP, Rugby, England. 15 kW. Address GCB, 9.280 mags.
		10.840 mags.	27.66 m.	KWV (W6XN), Dixon, Calif. 20 kW. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.
		10.850 mags.	27.63 m.	DFL, Nauen, Germany.
		10.960 mags.	27.36 m.	JZB, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Add: Manchukuo Telephone & Telegraph Co., Ltd., Shinkio.
		11.000 mags.	27.26 m.	PLP, Bandoeng, Java, N. E. I. 3 kW.
				XBJQ, Mexico City, Mexico. Relays XEW irreg. Int. sig.: 4 chimes. National Bank of Mexico, Box 2825.
		11.140 mags.	26.91 m.	XGB, Shanghai, China. 15 kW. (Existence doubtful).
		11.370 mags.	26.38 m.	CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.
		11.495 mags.	26.08 m.	VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 mags.
		11.660 mags.	25.71 m.	JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 mags.
		11.670 mags.	25.69 m.	PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 mags.
		11.680 mags.	25.67 m.	KIO, Kahuku, Oahu, Hawaii. Works Bolinas., Kahuku, Oahu, T. H. Works GMBJ.
		11.720 mags.	25.58 m.	CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.
				HJ4ABA, Medellin, Colombia. "Ecos de la Montana.", "Radio Coloniale," Pontoise, France. 15 kW. Address: Ministere des Postes, Telegraphes et Telephones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann, Paris. Daily, 1900-2200; 2300-0100.
		11.725 mags.	25.57 m.	PHI, Hilversum, Netherlands. 23.6 kW. (Winter frequency). Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announces in Dutch, Malay, German, French, English, Spanish, Portuguese. Close: Dutch National Anthem.
		11.750 mags.	25.52 m.	GSD, Daventry, England. 20 kW. "D for Daventry." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address, see GSA, 6.050 mags. Daily, 0115-0315; 1215-1600; 1800-2000; 2200-2300.
		11.770 mags.	25.47 m.	DJD, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 mags.

SHORT WAVE STATIONS BY FREQUENCIES

11.790 megs. 25.43 m. DJO, Zeesen, Germany. Address DJC, 6.020 megs. HH2T, Port-au-Prince, Haiti. W1XAL, Boston, Mass. 5 kW.	12.150 megs. 24.68 m. GBS, Rugby, England. 15 kW. Phones N. Y. after- noons. Address: GCB, 9.280 megs.
11.800 megs. 25.37 m. CO9WR, Sancti-Spiritus, Cuba. 150 watts. V. E. Weiss y O. Ramirez, Apartado 85.	12.215 megs. 21.55 m. TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 megs.
11.810 megs. 25.39 m. VE9GW, Toronto (Bowmanville), Ont.	12.225 megs. 24.53 m. TFK, Reykjavik, Iceland. 8.5 kW.
11.811 megs. 25.38 m. IRE, Rome, Italy. Address I2RO, 9.630 megs. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.	12.240 megs. 24.49 m. GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 megs.
11.830 megs. 25.34 m. W2XE, New York, N. Y. (Wayne, N. J.) Relays CBS, WABC, 10 kW. Address W2XE, 6.120 megs. Daily, 1500-1700.	12.250 megs. 24.48 m. TYB, Pontoise, France. Works JVH and Ships.
W9XAA, Chicago, Ill.	12.260 megs. 24.46 m. FTN, Ste. Assise, France. Address: FTA, 11.940 megs.
11.845 megs. 25.31 m. Villejust, France. 120 kW. Under con- struction.	12.270 megs. 24.52 m. JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs. RKK, Moscow, USSR. 20 kW.
11.860 megs. 25.28 m. GSE, Daventry, England. 20 kW. "E for Empire." Interval signal: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: see GSA, 6.050 megs. Daily, 1100-1200.	12.325 megs. 24.33 m. DAF, Norden, Germany. 5 kW. Phones ships, morn- ings. For address see DAF, 8.464 megs.
11.870 megs. 25.25 m. W6XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Man- ufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.	12.500 megs. 23.99 m. RKF, Moscow, USSR. 20 kW. ZSV, Walvis Bay, Union of South Africa. 1 kW.
11.880 megs. 25.24 m. "Radio Coloniale," Pontoise, France. 15 kW. Address, see 11.720 megs. Daily, 1115- 1415; 1500-1800.	12.745 megs. 23.60 m. DAF, Norden, Germany. 5 kW. Works ships. Ad- dress DAF, 8.464 megs.
11.940 megs. 25.11 m. FTA, Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Hauser- mann, Paris VIII.	12.780 megs. 23.46 m. GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megs.
(ETA-ETB?), Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	12.795 megs. 23.45 m. IAC, Cattano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.
11.950 megs. 25.08 m. KKQ, Bolinas, Calif. Address KEZ, 10.400 megs.	12.830 megs. 23.36 m. CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 megs. HJA3, Barranquilla, Colombia.
11.990 megs. 25.00 m. FZS2, Saigon, French Indo-China. 15 kW. Phones Paris. Cie Generale de Telegraphie Sans Fil, Boite Postale 238.	12.840 megs. 23.35 m. WOO, Ocean Gate, N. J. 20 kW. Works ships. Ad- dress WNA, 9.170 megs. WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.
12.000 megs. 24.99 m. RNE, Moscow, U.S.S.R. 20 kW. Kremlin Chimes at 1600 EST. Programs in English, Russian, German, French, Czech, Hungarian, Dutch, Spanish, Swedish. Address: Mme. Inna Marr, Central Radio Committee, Petrovka 12, Moscow.	12.862 megs. 23.31 m. WOEH, Broadcast pickup. NBC, 30 Rockefeller Plaza, NYC.
12.020 megs. 24.94 m. JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.	12.930 megs. 23.18 m. WAW, Hialeah, Fla.
12.030 megs. 24.92 m. HBO, Prangins, (Geneva), Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megs.	12.955 megs. 23.14 m. GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.
12.035 megs. 24.91 m. DJK, Nauen, Germany. 7.2 kW. Address DGK, 6.675 megs.	13.020 megs. 23.03 m. JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 megs.
12.050 megs. 24.88 m. PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megs.	13.040 megs. 22.99 m. SHIPS. For address of these ships refer to 4413, 4415 and 4430 megs. All these ships work with WOO, and DAF. DDBR, S. S. Berlin. DDCP, S. S. Cap Polonia. DDFF, S. S. Relianca. DDFT, S. S. Oceana.

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DHAO, Albert Ballin.	13.630 megs.	22.00 m.
DHDL, S. S. Cap Arcona.	SPW, Warsaw, Poland. 10 kW. Minister of Posts and Telegraphs, Mazawiecka 5, Warsaw.	
DHEY, S. S. Deutschland.	13.690 megs.	21.90 m.
DHJZ, S. S. Hamburg.	KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10,400 megs.	
DHRL, S. S. New York.	13.745 megs.	21.81 m.
DOAH, S. S. Bremen.	CGA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	
DOAI, S. S. Europa.	13.780 megs.	21.75 m.
	KKW, Bolinas, Calif. Address: KEZ, 10,400 megs.	
	13.810 megs.	21.71 m.
	HRM, Tela, Honduras. Tela Railroad Co.	
	SUZ, Cario (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and /3.830 megs. Address SUV, 10.055 megs.	
	13.870 megs.	21.61 m.
	WIY, Rocky Point, N. Y. Address: WPE, 13,840 megs.	
	13.900 megs.	21.57 m.
	WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13,840 megs.	
	13.980 megs.	21.45 m.
	LCO, Jeloy, Norway. 1kW. Address LCL, 6,130 megs.	
	13.984 megs.	21.44 m.
	GBA, Rugby, England. Address GCB, 9,280 megs.	
	14.000 to 14.400 megs.	
	20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 megs.	
	14.000 megs.	21.42 m.
	HJ5ABE, Cali, Colombia. Apartado 50. Daily 1900-2200.	
	14.236 megs.	21.06 m.
	HB9B, Berne, Switzerland. Swiss Shortwave Association, 30 Neuengasse, Berne. First Monday every month 1510-1615; 1800-1900.	
	14.290 megs.	20.99 m.
	HB9AT, Berne, Switzerland. Address HB9B above. First Monday each month, 1800-1900.	
	14.400 megs.	20.82 m.
	HB9J, Berne, Switzerland. Address HB9B above. First Monday each month, 1510-1615.	
	14.400 megs.	20.81 m.
	DIP, Zeesen, Germany.	
	14.440 megs.	20.76 m.
	GBW, Rugby, England. 15 kW. Address GCB, 9,280 megs.	
	14.470 megs.	20.72 m.
	WMF, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.	
	14.480 megs.	20.70 m.
	LSN, Buenos Aires (Hurlingham), Argentina, Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.	
	YNA, Managua, Nicaragua. Phones Hialeah days.	
	14.535 megs.	20.63 m.
	HBJ, Prangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.	
	13.050 megs.	22.97 m.
	These ships work with IAC and WOO. All owned by the Italian Line, 1 State St., N. Y. C.	
	13.075 megs.	22.93 m.
	VPD, Suva, Fiji. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva. Daily exc. Sunday. 0030-0130.	
	13.105 megs.	22.88 m.
	IRJ, Rome, Italy.	
	13.140 megs.	22.82 m.
	CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.	
	13.190 megs.	22.73 m.
	FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 megs.	
	13.200 megs.	22.71 m.
	CFU, Rossland, B. C. Consolidated Mining & Smelting Co.	
	13.210 megs.	22.70 m.
	FNSK, S. S. Normandie. Works WOO, afternoons Address FNSK, 8.810 megs.	
	13.320 megs.	22.51 m.
	GBZW, S. S. Berengaria.	
	GD LJ, S. S. Homeric.	
	GFVV, S. S. Majestic.	
	GLRZ, S. S. Aquitania.	
	GMJQ, S. S. Belgenland.	
	13.337 megs.	22.48 m.
	YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.	
	13.390 megs.	22.39 m.
	WMA, Lawrenceville, N. J. Works London. Address WNA, 9,170 megs.	
	13.395 megs.	22.39 m.
	FNSM, S. S. Paris.	
	FTNQ, S. S. Ile de Franco.	
	13.415 megs.	22.35 m.
	GCJ, Rugby, England. Works JVH, Nazaki. Address GCB 9,280 megs., 0300-0800.	
	TIEP, San Jose, Costa Rica. "La Voz del Tropico". Sr. Eduardo Pinto Hernandez, Apartado 257. Sunday at 1300.	
	13.435 megs.	22.31 m.
	WEL, Rocky Point, N.Y. Phones London. Address WAD, 8,930 megs.	
	13.500 megs.	22.21 m.
	G8B, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9,280 megs.	
	13.560 megs.	22.11 m.
	JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC Harbin. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	
	13.600 megs.	22.05 m.
	JYK, Kemikawa-Cho, Chiba-Ken, Japan. Experimental.	

SHORT WAVE STATIONS BY FREQUENCIES

14.545 megas.	20.69 m.		
HPF, Panama City, Panama. Phones Hialeah days.			
TGF, Guatemala City, Guat. Phones Hialeah days.			
TIN, Cartago, Costa Rica. Phones Hialeah days.			
Compania Radiografica Internacional de C. R., San Jose.			
TIU, Cartago, Costa Rica, See TIN above.			
14.590 megas.	20.55 m.		
WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 megas.			
14.640 megas.	20.42 m.		
JVH, Nazaki, Japan. 20 kW. Address JVI, 13.580 megas. Works GCJ, 0200-0600.			
14.690 megas.	20.41 m.		
PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709.			
14.740 megas.	20.34 m.		
IRG, Massawa, Eritrea.			
14.790 megas.	20.27 m.		
ROU, Omsk, USSR.			
14.800 megas.	20.26 m.		
WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megas.			
14.830 megas.	20.21 m.		
WKU, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megas.			
14.845 megas.	20.20 m.		
OCJ2, Lima (Valverde) Peru.			
14.910 megas.	20.11 m.		
JVG, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address: JVI, 13.560 megas.			
14.930 megas.	20.08 m.		
HJB, Bogota, Colombia. Phones Hialeah, days.			
14.935 megas.	20.07 m.		
PSA, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14.690 megas.			
14.980 megas.	20.01 m.		
KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.			
15.000 megas.	19.99 m.		
WWV, Beltsville, Md. 1kW. National Bureau of Standards, Washington, D. C. Wed, 1200-1300.			
15.040 megas.	19.93 m.		
RKI, Moscow, USSR. 20 kW. Works RIM Tashkent.			
15.055 megas.	19.91 m.		
WNC, Hialeah, Fla. 400 watts. Works HJB, HJP, HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.			
15.070 megas.	19.89 m.		
PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Madrid and Buenos Aires mornings. Address: PSF, 14.690 megas.			
15.090 megas.	19.87 m.		
RKI, Moscow, USSR. 20 kW. Works Rocky Point.			
15.104 megas.	19.85 m.		
RAU, Tashkent, USSR. Phones Moscow mornings.			
15.120 megas.	19.83 m.		
HVJ, Vatican City. 10 kW. Interval sig.: clock tick-			
			ing for 10 minutes preceding transmission; bells of St. Peter's at 3 o'clock. Announcement: Laudatur Jesus Christus. Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticana, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.
15.140 megas.	19.80 m.		
GSF, Daventry, England. 15 kW. "F for Fortune." Interval sig.: Westminster chimes and Big Ben. Sign off: God Save the King. Address. British Broadcasting Corp., Broadcasting House, London W.1. Daily, 0900-1200; daily exc. Sun., 0600-0845; Sun., 0630-0845.			
15.200 megas.	19.73 m.		
DJB, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC 6.020 megas.			
15.210 megas.	19.71 m.		
W8XK, Pittsburgh (Saxenburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.			
15.220 megas.	19.70 m.		
PCJ, Hilversum, Netherlands. Philips' Omroep Holland-India, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.			
15.250 megas.	19.66 m.		
..... "Radio Coloniale," Pontoise, France. 12 kW. Address, see 11.720 megas. Daily, 0700-1100.			
W1XAL, Boston, Mass. 5 kW.			
15.260 megas.	19.65 m.		
GSI, Daventry, England. "I for Island." For other details see GSF, 15.140 megas.			
15.270 megas.	19.64 m.		
W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6.120 megas. Daily 1100-1300.			
15.280 megas.	19.62 m.		
DJQ, Zeesen, Germany.			
15.295 megas.	19.60 m.		
..... , Villejust, France. 120 kW. Under construction.			
15.300 megas.	19.60 m.		
CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637.			
OXY, Copenhagen, Denmark.			
15.330 megas.	19.56 m.		
W2XAD, Schenectady, N. Y. 20 kW. The General Electric Co. Relays NBC-WGY. "The Voice of Electricity." Program commences with electrical discharge of 10,000,000 volts of man-made lightning. Sunday, 1030-1600; other days, 1400-1500.			
15.340 megas.	19.55 m.		
DJR, Zeesen, Germany.			
15.350 megas.	19.53 m.		
CT1AA, Lisbon, Portugal. 2kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 megas.			

SHORT WAVE STATIONS BY FREQUENCIES

15.355 megs. KWU (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 megs.	19.52 m.	16.200 megs. FZR, Saigon, French Indo-china. Phones Paris. Address FZS2, 11.990 megs.	18.51 m.
15.370 megs. HAS3, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address, see HAT2, 7.220 megs.	19.51 m.	16.240 megs. KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.	18.49 m.
15.415 megs. KWO (W6XN), Dixon, Calif. 20 kW. Address KWV 10.840 megs.	19.45 m.	16.270 megs. WLK, Lawrenceville, N. J. Works London. Address WMF, 14.470 megs.	18.48 m.
15.440 megs. PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.	19.42 m.	16.380 megs. XGN, Shanghai, China. Address XGO, 7.575 megs.	18.30 m.
15.445 megs. WKW, Rocky Point, N. Y. Address WPE, 13.840.	19.41 m.	16.460 megs. DHEY, S. S. Deutschland. Works WOO, DAF. Address, North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.	18.22 m.
15.454 megs., Pontoise, France. (Proposed).	19.40 m.	16.600 megs. DOAI, S. S. Europa. Phones WOO, DAF. Address DHEY above.	18.06 m.
15.475 megs. KKL, Bolinas, Calif. Address KEZ, 10.400 megs.	19.37 m.	16.910 megs. JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13.560 megs.	17.73 m.
15.510 megs. JDX, Darien. Works JYU Nazaki.	19.33 m.	17.080 megs. GBC, Rugby, England. 5 kW. Works ships. Address GBX, 16.150 megs.	17.55 m.
15.620 megs. JVF, Nazaki, Japan. 20 kW. Works Dixon, nights. Address JVI, 13.560 megs.	19.19 m.	17.120 megs. WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WMF, 14.470 megs.	17.51 m.
15.680 megs. JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13.560 megs.	19.15 m.	17.260 megs. WOY, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 megs.	17.37 m.
15.680 megs. JZA, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JYU. Add.: Manchukuo Telephone & Telegraph Co., Shinkio.	19.12 m.	17.310 megs. CZA, Drummondville, P. Q. Works ships. Address CGA2, 13.745 megs.	17.32 m.
15.750 megs. JIA, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	19.04 m.	17.480 megs. W3XL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C.	17.15 m.
15.760 megs. JYT, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW.	19.02 m.	17.520 megs. VWY, Kirkee, Poona, India. Phones London.	17.11 m.
15.860 megs. CEC, La Granja (Santiago), Chile. 800 watts. Phones Peru, afternoons. Address CEC, 10.670 megs.	18.90 m.	17.710 megs. DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6.675 megs.	17.15 m.
JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 megs.	18.90 m.	17.710 megs. CJA3, Drummondville, P. Q. Works London. Address CGA2, 13.745 megs.	16.93 m.
15.863 megs. FTK, Ste. Assise, France. Phones Saigon. Address FTA, 11.940 megs.	18.90 m.	17.740 megs. HSP, Bangkok, Siam. 20 kW. Post & Telegraph Dept.	16.90 m.
15.950 megs. PLG, Bandoeng, Java, N. E. I.	18.80 m.	17.760 megs. DJE, Zeesen, Germany. 5 kW.	16.88 m.
15.970 megs. WKO, Rocky Point, N. Y. Address WPE, 13.840 megs.	18.77 m.	17.765 megs., Villejust, France. 120 kW. Under construction.	16.88 m.
16.030 megs. KKP, Kahuku, Oahu, Hawaii., Kahuku, Oahu, T. H. Phones GMBJ.	18.71 m.	17.775 megs. PHI, Hilversum, Netherlands. 23.6 kW. For details see PCJ, 15.220 megs. Mon., Thurs., Fri., 0730-0930; Sat., Sun., 0730-1030.	16.87 m.
16.050 megs. JVC, Nazaki, Japan. Works Hongkong. Address JVI, 13.560 megs.	18.68 m.	17.780 megs. W3XAL, Bound Brook, N. J. 14 kW. Relays WJZ-NBC programs. Address W3XL, 17.310 megs. Daily exc. Sun., 0900-1000; Tues., Thurs., Fri., 1500-1600.	16.86 m.
16.150 megs. GBX, Rugby, England. Phones Sydney. Address Engineer-in-chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.	18.56 m.		

SHORT WAVE STATIONS BY FREQUENCIES

W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Not used at present.
 W9XAA, Chicago, Ill. Not used at present.

17.790 megs. 16.85 m.
 GSG, Daventry, England. 15 kW. "G for Greeting."
 For other details see GSF, 15.140. Daily,
 0900-1045; daily exc. Sun., 0600-0845; Sun.,
 0630-0845.

17.830 megs. 16.82 m.
 PCV, Kootwijk, Netherlands. Works Java, mornings.
 Radiolaboratory Neth. State Telegraphs.
 Parkstraat 29, S'Gravenhage.

17.850 megs. 16.80 m.
 PLF, Bandoeng, Java, N. E. I.

17.900 megs. 16.75 m.
 WLL, Rocky Point, N. Y. 20 kW. Address WPE,
 13.840 megs.

17.920 megs. 16.73 m.
 WQF, Rocky Point, N. Y. 40 kW. Address WPE,
 13.840 megs.

17.940 megs. 16.71 m.
 WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address
 WPE, 13.840 megs.

18.020 megs. 16.64 m.
 KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400
 megs.

18.115 megs. 16.55 m.
 LSY3, Buenos Aires (Monte Grande), Argentina.
 Transradio Internacional, San Martin 329,
 B. A.

18.135 megs. 16.53 m.
 PMC, Bandoeng, Java, N. E. I. 40 kW. Works Neth.,
 0330-0900. Address: Mr. H. Van der Veen,
 Engineer in Charge, Post-Telegraaf-en Tele-
 fondienst, Bedrijf der Radiostations op
 Java, Bandoeng.

18.180 megs. 16.49 m.
 CGA, Drummondville, P. Q. Canadian Marconi Co.,
 Box 1690, Montreal, P. Q.

18.190 megs. 16.48 m.
 JVB, Nazaki, Japan. 10 kW. Works PLE, PLV.
 Address: Kokusai-Denwa Kaisha, Ltd.,
 Osaka Bldg., Kojimachiku, Tokyo.

18.200 megs. 16.47 m.
 GAW, Rugby, England. 15 kW. Works N. Y. Address:
 GBX, 16.150 megs.

18.270 megs. 16.41 m.
 ETA, Addis Ababa, Ethiopia. 2 kW.

18.296 megs. 16.39 m.
 YVR, Maracay (Santa Rita), Venezuela. Works
 Berlin. Estados Unidos de Venezuela,
 Servicio Radiotelegrafico.

18.304 megs. 16.38 m.
 GAS, Rugby, England. Works N. Y. mornings.
 Address: GBX, 16.150 megs.

18.330 megs. 16.36 m.
 FTE, Ste. Assise, France. Societe Francaise Radio-
 Electrique, 79 Blvd. Haussmann, Paris VIII.

18.342 megs. 16.35 m.
 FZS, Saigon, French Indo-China. Works Paris.
 Address: FZS2, 11.990 megs.

18.350 megs. 16.34 m.
 WLA, Lawrenceville, N. J. A. T. & T. Long Lines
 Dept., 32 Sixth Ave., N. Y. City.

18.400 megs. 16.29 m.
 PCK, Kootwijk, Netherlands. Works Java. Address:
 PCV, 17.830 megs.

18.444 megs. 16.25 m.
 HJY, Bogota, Colombia. Works CEC, LSR, OCI days.

18.450 megs. 16.25 m.
 HBH, Prangins, Switzerland. 20 kW. Address: HBJ,
 14.535 megs.

18.600 megs. 16.12 m.
 PCM, Kootwijk, Netherlands. Address: PCV, 17.830
 megs.

18.620 megs. 16.10 m.
 GAU, Rugby, England. 15 kW. Address: GBX,
 16.150 megs.

18.670 megs. 16.06 m.
 OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR,
 WNC days. Compania Peruana de Telefonos,
 Apartado 986, Lima.

18.830 megs. 15.92 m.
 PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon
 nights, Tokyo mornings. Address: PMC,
 18.135 megs.

18.860 megs. 15.89 m.
 WKM, Rocky Point, N. Y. 40 kW. Address: R. C. A.,
 66 Broad St., N. Y. City.

18.890 megs. 15.87 m.
 ZSS, Capetown (Klipheuevel), Union of South Africa.
 5kW. Works London. Overseas Communica-
 tion Co., Kodak House, Shortmarket St.,
 Capetown.

18.900 megs. 15.86 m.
 WDS, Rocky Point, N. Y. Address WKM, 18.860 megs.

18.910 megs. 15.86 m.
 JVA, Nazaki, Japan. 20 kW. Works Europe. Address
 JVB, 18.190.

18.920 megs. 15.84 m.
 WQE, Rocky Point, N. Y. Address WKM, 18.860 megs.

18.950 megs. 15.82 m.
 HBF, Prangins (Geneva), Switzerland. 20 kW.
 Address HBJ, 14.535 megs.

18.970 megs. 15.80 m.
 GAQ, Rugby, England. Works Capetown 0800.
 Address GBX, 16.150 megs.

19.120 megs. 15.68 m.
 LSM, Buenos Aires, Argentina. Works Europe.

19.200 megs. 15.62 m.
 ORG, Brussels (Ruyssede), Belgium. 8 kW. Works
 Leopoldville. Address ORK, 10.330 megs.

19.220 megs. 15.60 m.
 WKF, Lawrenceville, N. J. 20 kW. Address WLA,
 18.350 megs.

19.270 megs. 15.57 m.
 PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW.
 Address: Cia Radiotelegraphica Brasileira,
 Caixa Postal 500, Rio de Janeiro.

19.345 megs. 15.50 m.
 PMA, Bandoeng, Java, N. E. I. 40 kW. Address:
 PMC, 18.135 megs.

19.355 megs. 15.46 m.
 FTM, Ste. Assise, France. Address: FTE, 18.330 megs.

SHORT WAVE STATIONS BY FREQUENCIES

<p>19.520 megs. 15.36 m. IRW, Rome, Italy, Works Argentina. 20 kW. Address: Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.</p>	<p>WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 megs.</p>
<p>19.600 megs. 15.30 m. LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.</p>	<p>21.070 megs. 14.23 m. PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW. Works N. Y. Address: PSF, 14.690 megs.</p>
<p>19.680 megs. 15.24 m. CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.</p>	<p>21.128 megs. 14.19 m. LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 megs.</p>
<p>19.820 megs. 15.13 m. WKN, Lawrenceville, N. J. Address: WLA, 18.350.</p>	<p>21.410 megs. 14.00 m. WKK, Lawrenceville, N. J. Address: WLA, 18.250 megs.</p>
<p>19.900 megs. 15.06 m. LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.</p>	<p>21.460 megs. 13.97 m. W1XAL, Boston, Mass. 5 kW.</p>
<p>19.980 megs. 15.01 m. KAX, Manila, P. I. Radio Corp of the Philippines, Plaza Moraga, Manila.</p>	<p>21.470 megs. 13.95 m. GSH, Daventry, England. "H for Home." Interval sig: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: British Broadcasting Corp., Brdcasting House, London W.1.</p>
<p>20.020 megs. 14.98 m. DHO, Nauen, Germany. 7.2 kW. Works S. America. Reichspost-zentralamt, Telegraphentechnisches Reichsamt, Schoneberger Strasse 11-15, Berlin-Tempelhof.</p>	<p>21.490 megs. 13.95 m. Villejust, France. 120 kW. Under construction.</p>
<p>20.040 megs. 14.97 m. OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.</p>	<p>21.530 megs. 13.93 m. GSJ, Daventry, England. "J for Justice." See GSH, 21.470 megs.</p>
<p>20.100 megs. 14.91 m. WQY, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 megs.</p>	<p>21.540 megs. 13.92 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.</p>
<p>20.368 megs. 14.72 m. GAA, Rugby, England. 15 kW. Address: GBX 16.150 megs.</p>	<p>22.290 megs. 13.45 m. GBU, Rugby, England, Works N. Y. Address: GBX, 16.150 megs.</p>
<p>20.606 megs. 14.55 m. PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 megs.</p>	<p>26.100 megs. 11.49 m. GSK, Daventry, England. "K for King." See GSH, 21.470 megs.</p>
<p>21.020 megs. 14.27 m. LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.480 megs.</p>	<p>29.820 megs 10.05 m. IAF, Fiumicino, Italy, 5 kW.</p>
<p>21.060 megs. 14.24 m. KWN, (W6XN), Dixon, Calif. 20 kW. Address: KWV, 10.840 megs.</p>	<p>30.604 megs. 9.80 m. IAG, Golfo Aranci, Sardinia. 5 kW.</p>

SHORT WAVE STATIONS BY LOCATIONS

ALASKA (K)	Excursion Inlet	Igloo	Luckyshot	Port Althorp	Saldovia
Akutan	KILY 2.994	KIUQ 2.616	KIIP 3.093	KIAW 3.093	KIKY 3.265
KHW 2.912	Eyak River	Iron Creek	McGrath	KLB 2.512	Shearwater Bay
KIOI 2.632	KIKN 3.093	KIOH 2.632	KIO 2.994	Port Armstrong	KIJW 2.632
	Fairbanks	Jack Wade	KIIO 3.190	KGXU 1.622	Tanana
	KIFM 4.124	KAEF 2.616	Nakeen	Port Conclusion	KIJJ 2.994
	False Pass	KAEF 2.994	KHV 2.556	KIJI 1.622	KIJJ 3.190
Angoon	KDX 2.986	Juneau	KICE 3.265	Port Herbert	Tin City
KAED 2.616	Fort Yukon	KMYA 2.304	Nellie Juan	KIJO 1.622	KION 2.616
KAED 3.093	KIIL 2.994	KMYA 4.610	KGI 2.632	Port Hobron	Todd
	KIHL 3.190	WXA 8.050	KIOD 2.632	KHZ 2.912	KGO 2.986
Cape Pole	Hidden Inlet	Kadiak Island	KIOP 2.632	KJMA 2.632	KIJU 2.986
KIJB 2.994	KIDE 3.265	KIJX 2.632	Newport Walter	Port San Juan	Uganik
KIIC 2.994	KLD 2.566	Kake	KIJS 1.622	KIJR 2.986	KIJP 2.986
KIKK 3.190	Hoonah	KIBA 3.093	Pillar Bay	P. Wakefield	Union Bay
Cordova	KIUZ 3.093	KLC 2.512	KDY 2.994	KGX 2.632	KFF 2.566
KDV 2.538	Hot Springs	Ketchikan	KNBZ 2.994	KIOC 2.632	KICG 3.265
Deep Cove	KIIM 2.994	KBAI 2.304	Poorman	Red Bluff	View Cove
KHP 1.622	KIIM 3.190	KGM 2.512	KIEJ 2.994	KIOG 1.622	KICI 3.093
KiJV 1.622	Hydaburg	KIAY 3.093	Port Alexander	Rose Inlet	Washington Bay
KIIN 2.994	KAEB 2.616	KXH 2.604	KDH 2.538	KIAP 3.093	KIKJ 1.622
KiIN 3.190	KAEB 3.265	KXH 6.662	KGXW 1.606	KLE 2.512	

SHORT WAVE STATIONS BY LOCATIONS

Waterfall KIBZ 3.265 KLA 2.566	BERMUDA (ZF-)	Humpback Bay CZL 2.290 Knight Inlet CJK 1.510 Margaret Bay CJX 2.290	Red Lake CFJ 1.620 CFJ 5.660	Lac la Ronge CGQ 1.596 CGQ 1.668 Prince Albert VYP 1.596 VYP 1.668	Cucuta HJA7 5.400 HJ2ABC 5.975
Wrangell KDK 2.538	Hamilton ZFA 5.025 ZFB 10.055 St. George ZFD 10.335	Namu CFV 2.290 Ocean Falls CGO 4.505 Prince George CZO 4.505 Prince Rupert CGP 3.268 CGP 5.405 CZG 1.712 CZG 2.416 CZG 6.425	Toronto CRCX 6.090	Regina VXU 5.540	Ibague HJ4ABC 6.450
ARGENTINA (LOA-LVZ)	BOLIVIA (CPA-CPZ)	PRINCE EDWARD ISLAND	PRINCE EDWARD ISLAND	Portable VXW 5.540	Manizales HJ4AB 7.200 HJ4ABL 6.100
Buenos Aires LQA 5.600 LSF 19.600 LSG 19.900 LSL 9.990 LSL 10.250 LSM 19.120 LSM 21.128 LSN 9.895 LSN 14.480 LSN 21.020 LSN2 9.890 LSR 18.958 LSX 10.350 LSY3 18.115	La Paz CP5 6.080 CP6 9.120 CP7 15.300	Borden CJM 1.580 Charlottetown VE5EH 6.080	QUEBEC	CANAL ZONE (W)	Medellin HJ4ABA 11.720 HJ4ABD 6.060 HJ4ABE 5.900
AUSTRALIA (VHA-VMZ)	BRAZIL (PPA-PYZ)	QUEBEC	Belleveue CZB 1.620 Crane Island CKO 2.284 Drummondville CFA2 4.465 CFA4 10.520 CGA 18.180 CGA2 13.745 CGA4 9.332 CGA6 6.690 CGA7 6.880 CGA9 4.348 CGD 3.340 CJA3 17.710 CJA6 6.760 CZA 2.980 CZA 4.785 CZA 6.285 CZA 8.515 CZA 12.660 VE9DN 6.005 VE9DN 9.555 VE9DN 11.780	Albrook Field WTR 6.385	Quibdo HJ1ABC 6.010 Santa Marta HJ1ABJ 6.006
Adelaide VIA 1.520 Fiskville VIZ3 11.495 Melbourne VK3LR 9.580 VK3ME 9.503 Sydney VKO 1.520 VK2ME 9.585 VLJ 9.750 VLK 8.095 VLK 10.520 VLZ 7.960 VLZ 7.980	Rio de Janeiro PPQ 11.670 PPU 19.270 PRF5 9.505 PSA 14.935 PSA 21.070 PSD 15.070 PSF 14.690 PSH 19.220 PSK 8.180	Rossland CFU 4.755 CFU 5.660 CFU 6.720 CFU 13.200 Sage Creek VXX 5.405 Slate Creek CFN 5.705 Two Brothers VDV 4.490 Vancouver CGZ 2.452 VESCS 6.070 Waterloo Mine CZV 3.300 CZV 4.840	QUEBEC	CANARIES El Tablero EHZ 10.370	Tunja HJ2ABA 6.170
AUSTRIA (OAE-OEZ)	BRITISH GUIANA (VP3)	MANITOBA	QUEBEC	CHILE (CAA-CEZ)	COSTA RICA (TIA-TIZ)
Vienna OER2 6.072	Georgetown VP3MR 7.080	Winnipeg CJRO 6.150 CJRX 11.720 CJU 3.070 CJU 3.452 VYW 2.396	QUEBEC	Santiago CEC 5.820 CEC 7.740 CEC 8.710 CEC 10.670 CEC 15.860 CEC 19.680	Cartago TIN 14.545 TIU 14.545 TIR 7.685 Puntarenas TISWS 7.550 San Jose TIEP 6.710 TIEP 13.415 TIGPH 5.820 TIPG 6.410 TIRCC 6.550
AZORES (CT2-)	CANADA (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)	NEW BRUNSWICK	QUEBEC	CHINA (XGA-XUZ)	San Ramon TISHH 5.520
Ponta Delgada CT2AJ 4.000	Calgary CGE 3.040 CGE 7.550 CKS 3.040 CKS 7.550 VDC 4.490 VE9CA 6.030 VE9CA 11.860	Fredericton VE9AS 6.425 St. John CJW 2.416 VE9BJ 6.090	QUEBEC	Nanking XGOX 6.000 XOX 9.500 XGOX 11.900 XGOX 17.800	CUBA (CLA-CMZ; COA-COZ)
BAHAMAS (ZF-)	Edmonton CFQ 3.040 CFQ 7.550	NOVA SCOTIA	Montmagny CKP 2.284 Montreal CGM 3.152 VE9DR 6.005 VE9DR 9.580 VYR 1.712	Shanghai XGB 11.140 XGBD 9.580 XGK 18.690 XGL 7.960 XGN 16.380 XGO 7.575 XGW 10.420	Camaguey CO9JQ 8.665 Havana CMB 5.780 CMPN 1.712 COD 6.130 COCH 9.428 COCO 6.010
Cat Cay ZF0 5.300 Nassau ZFS 4.512	BRITISH COLUMBIA	Halifax CHNX 6.110 VBQ 2.350 Lunenburg VBY 1.540 VBY 1.650 Pictou CKB 2.284 Pictou Island CKU 2.284	Riviere du Chef CZY 1.620 St. Felecie CZZ 1.620 Tabouret CFL 1.620 Verdun CJZ 2.452 Yamachiche CGY 3.152	COLOMBIA (HJA-HKZ)	Sancti Spiritus CO9WR 11.800 Santiago CO9CG 6.150
BELGIAN CONGO (OP-)	Alert Bay VAF 1.510 Anoyx CZQ 5.405 Bones Bay CFW 2.290 Campbell River CGT 4.865 CJD 1.510 CJD 1.540	ONTARIO	SASKATCHEWAN	Barranquilla HJA3 7.685 HJA3 8.790 HJA3 12.830 HJ1ABB 6.447 HJ1ABG 6.042 Bogota HJA2 5.825 HJB 14.930 HJN 6.080 HJP 7.465 HJY 9.930 HJY 18.444 HJ3ABD 7.390 HJ3ABF 6.200 HJ3ABH 6.012 HKE 7.090	DARIEN (J)
Leopoldville OPL 20.040 OPM 10.135	Cape Lazo VAC 1.510 Ceepcece CJE 2.290 Claydon Bay CZP 4.505 Homalke VFJ 2.290	Bowmanville VE9GW 11.810 Kenora CFD 1.620 CFD 5.660 Leamington CFT 2.284 Pelee Island CFX 2.284	Cub Lake CFC 1.596 CFC 1.668 Emma Lake CGV 1.596 CGV 1.668 Hudson Bay Junct. VXY 5.540 Isle-a-la-Crosse CZJ 1.596 CZJ 1.668	HJ1ABH 6.300	Darien JDx 15.510 JDY 9.920 JDZ 5.710
BELGIUM (ONA-OTZ)				COLOMBIA (HJA-HKZ)	DENMARK (OUA-OZZ)
Brussels ORG 19.200 ORK 10.330				Bucaramanga HJ2ABD 5.980 Cali HJ5ABD 6.490 HJ5ABE 14.000 Cartagena HJ1ABD 7.280 HJ1ABE 6.115 Cienaga HJ1ABH 6.300	Copenhagen OXY 6.060 OXY 9.490 OXY 15.300
				DOMINICAN REPUBLIC (HIA-HIZ)	San Pedro de Macoris HIH 6.800

SHORT WAVE STATIONS BY LOCATIONS

PARAGUAY (ZPA-ZPZ)	Salisbury ZEA 6.590	Tachkent RAU 15.104 RIM 7.626 RPT 5.995	Mobile NMG 2.670 WPGW 2.382	San Francisco KBCJ 3.155 KCPD 2.466 San Gabriel Dam KIIV 2.726 San Jose KGPM 2.466 San Pedro NOJ 2.670 San Rafael KLH 2.506 Santa Ana KGHX 2.430 Santa Barbara KBCA 3.385 KBCB 3.385 KGZO 2.414 Santa Cruz KGZT 1.683 Sequoia Park KNKG 3.410 Tujunga Dam KIIX 2.726 Tulare WPDA 2.414 Vallejo KGGP 2.422 Whittier KGGH 1.712 Wilmington KOU 2.566 Yosemite KNKS 2.604 KNKU 2.604 KNKX 2.604 Yreka KBCG 2.385	Miami NOM 2.670 WPFFZ 2.442 WXB 6.040 Opa Locka WMEV 2.930 WMEV 6.615 Orlando WPHM 2.442 Palm Beach WPFX 2.442 St. Petersburg NOF 2.670 WMEU 2.930 WMEU 6.615 Tampa WPHN 2.466			
Asuncion ZP10 6.666 ZP11 3.800	SPAIN (EAA-EHZ)	Tiflis RIR 5.040 RIR 10.080	ARIZONA Phoenix KNGG 1.698 KNZJ 2.430	Georgia Atlanta WPDY 2.414 Augusta WQFV 2.414 Columbus WPMI 2.414 La Grange WPGM 2.414 Macon WQFB 2.414				
PERU (OAA-OCZ)	Madrid EAQ 9.862	UNION OF SOUTH AFRICA (ZSA-ZUZ)	ARKANSAS Little Rock KGHZ 2.406	IDAHO Boise KBCQ 3.300 Idaho Falls KNFB 2.458				
Lima OAX4B 6.230 OAX4D 5.780 OCI 10.962 OCI 18.670 OCJ 15.625 OCO 7.820	STRAITS SETTLEMENTS (ZH-)	Capetown ZSS 18.890 Johannesburg ZTJ 6.100 Walvis Bay ZSV 8.220 ZSV 12.500	CALIFORNIA Bakersfield KGPS 2.414 Berkeley KSW 1.658 Bolinas KEE 7.715 KEJ 9.010 KEL 6.860 KET 10.410 KEZ 10.400 KKL 15.575 KKQ 11.950 KKW 13.780 KKZ 13.690 KQJ 18.028 Compton KNFM 2.490 Death Valley KNLO 3.410 KNLP 3.410 KNLQ 3.410 KNLR 3.410 Devils Post Pile KNKY 2.604 Dixon KWN 21.060 KWO 15.415 KWU 15.355 KWV 10.840 KWY 7.610 KWY 7.565 EL Centro KNGJ 2.490 Fresno KGZA 2.414 Lodi 2.414 Los Angeles KGPL 1.712 KIIV 2.726 KIKL 6.615 Mt. Shasta KBCC 3.200 North Fork KBCC 3.445 KBCE 3.445 KBCF 3.445 Oakland KBCH 3.385 Palo Alto KCHK 1.674 Pasadena KGJX 1.712 Point Bonita NMC 2.670 Pomona KNFJ 1.712 Sacramento KNGF 2.422 San Bernardino KGZY 1.712 San Diego KGDZ 2.490	ILLINOIS Chicago WPDB 1.712 WPDG 1.712 WPDH 1.712 W9XAA 6.080 W9XAA 11.830 W9XAA 17.780 Highland Park WPDF 2.430 Oak Park WQFL 1.712 Ottawa WQFZ 2.458 Rockford WPGD 2.458 Wheeling WMEQ 6.615 Wilmette NMP 2.670 NMP 2.698				
PHILIPPINE ISLANDS (K)	Penang ZHH 6.080 Singapore ZHI 6.060	UNITED KINGDOM (G; M.) Davertry GSA 6.050 GSB 9.510 GSC 9.580 GSD 11.750 GSE 11.860 GSF 15.140 GSG 17.790 GSH 21.470 GSI 15.260 GSJ 21.530 GSK 26.10 GSL 6.110 Rugby GAA 20.368 GAQ 18.970 GAS 18.304 GAU 18.620 GAW 18.200 GBA 13.984 GBB 13.500 GBC 4.430 GBC 4.975 GBC 8.680 GBC 12.780 GBC 17.080 GBP 10.770 GBS 12.150 GBU 12.240 GBU 22.290 GBW 14.440 GBX 10.530 GBX 16.150 GCA 9.710 GCB 9.280 GCJ 13.415 GCP 7.920 GCS 9.020 GCU 9.950 GCW 9.790 GDB 6.790 GDS 6.905 GDW 4.820 GGRX 4.320	UNITED STATES (K; N; W) ALABAMA Birmingham WPFM 2.382 Maxwell Field PD1 6.445	CONNECTICUT Bridgeport WPFV 2.466 New Haven WQFA 2.466 New London NOU 2.670 DISTRICT OF COLUMBIA Washington WPDW 2.422 FLORIDA Clearwater WQFK 2.466 Dry Tortugas WST 3.410 Ft. Lauderdale NMV 2.670 Gainesville WQFC 2.466 Hialeah WND 4.098 WAW 12.930 WNC 15.055 Jacksonville WPFJ 2.442 Key West WWZ 3.410 Lakeland WPFT 2.442	INDIANA Columbia City WQFW 1.634 Culver WPHS 1.634 Fort Wayne WPDZ 2.490 WAKA 2.490 Indianapolis WMDZ 2.442 1.634 Jasper WPHU 1.634 Kokomo WPDT 2.490			
Poland (SOA-SRZ)	SWITZERLAND (HBA-HBZ)	Poland Warsaw SPW 13.630	California Bakersfield KGPS 2.414 Berkeley KSW 1.658 Bolinas KEE 7.715 KEJ 9.010 KEL 6.860 KET 10.410 KEZ 10.400 KKL 15.575 KKQ 11.950 KKW 13.780 KKZ 13.690 KQJ 18.028 Compton KNFM 2.490 Death Valley KNLO 3.410 KNLP 3.410 KNLQ 3.410 KNLR 3.410 Devils Post Pile KNKY 2.604 Dixon KWN 21.060 KWO 15.415 KWU 15.355 KWV 10.840 KWY 7.610 KWY 7.565 EL Centro KNGJ 2.490 Fresno KGZA 2.414 Lodi 2.414 Los Angeles KGPL 1.712 KIIV 2.726 KIKL 6.615 Mt. Shasta KBCC 3.200 North Fork KBCC 3.445 KBCE 3.445 KBCF 3.445 Oakland KBCH 3.385 Palo Alto KCHK 1.674 Pasadena KGJX 1.712 Point Bonita NMC 2.670 Pomona KNFJ 1.712 Sacramento KNGF 2.422 San Bernardino KGZY 1.712 San Diego KGDZ 2.490	Poland Poznan SR1 9.490 Warsaw SPW 13.630	Poland Warsaw SPW 13.630	Poland Warsaw SPW 13.630	Poland Warsaw SPW 13.630	Poland Warsaw SPW 13.630
Portugal (CSA-CUZ)	Taiwan (J)	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132	Portugal Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Parede CT1GO 6.132
Puerto Rico	Union of Socialist Soviet Republics (R; U)	Puerto Rico San Juan WMDU 3.070 WMDU 5.405	Puerto Rico San Juan WMDU 3.070 WMDU 5.405	Puerto Rico San Juan WMDU 3.070 WMDU 5.405	Puerto Rico San Juan WMDU 3.070 WMDU 5.405	Puerto Rico San Juan WMDU 3.070 WMDU 5.405	Puerto Rico San Juan WMDU 3.070 WMDU 5.405	Puerto Rico San Juan WMDU 3.070 WMDU 5.405
Siam (HSA-HSZ)	Union of Socialist Soviet Republics (R; U)	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	Siam Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730
Southern Rhodesia (ZE-)	Union of Socialist Soviet Republics (R; U)	Southern Rhodesia Bulawayo ZEB 6.590	Southern Rhodesia Bulawayo ZEB 6.590	Southern Rhodesia Bulawayo ZEB 6.590	Southern Rhodesia Bulawayo ZEB 6.590	Southern Rhodesia Bulawayo ZEB 6.590	Southern Rhodesia Bulawayo ZEB 6.590	Southern Rhodesia Bulawayo ZEB 6.590

SHORT WAVE STATIONS BY LOCATIONS

Lafayette	Beltsville	Manitou Island	Hackensack	Rochester	OHIO
WQFQ 2.442	WVV 5.000	WWAJ 3.410	WPFK 2.430	WPDR 2.422	Akron
Marion County	WVV 10.000	Marquette	Lawrenceville	Rockaway Point	WPDO 2.458
WPHE 1.634	WVV 15.000	WWM 3.410	WKA 21.060	NMY 2.670	Cambridge
Muncie	MASSA- CHUSETTS	Muskegon	WKF 4.253	Rocky Point	WPHT 1.596
WPGP 2.442		WPFC 2.442	WKK 19.220	WAD 8.930	Cincinnati
Richmond		Passage Island	WKN 19.820	WAJ 13.480	WKDU 1.706
WPDH 2.442	Arlington	Poe Reef	WLA 18.350	WBU 21.260	W8XAL 6.060
Seymour	WPED 1.712	Port Huron	WLK 16.270	WDB 6.718	Cleveland
WQFE 1.634	Boston	WPB 2.466	WMA 13.390	WDG 4.535	NMD 2.670
South Bend	WEY 1.630	Rock of Ages	WMF 14.470	WDN 4.550	NMD 2.698
WPGN 2.490	WPGV 1.712	WWAM 3.410	WNN 14.590	WEA 18.900	WRBH 2.458
IOWA	W1XAL 6.040	Saginaw	WNA 9.170	WEB 6.935	Columbus
	W1XAL 11.790	WPES 2.442	WNB 10.675	WEC 8.930	WPDI 2.430
Atlantic	W1XAL 15.250	Sault Ste. Marie	WOB 6.755	WEL 8.950	WPGQ 1.596
KACD 1.682	W1XAL 21.460	NOR 2.670	WOB 5.850	WEL 13.435	Dayton
Cedar Rapids	W1XH 2.110	NOR 2.698	WOF 9.750	WEM 7.400	WPDM 2.430
KGZ 2.466	Brookline	NOR 2.698	WOK 10.550	WES 9.448	Findlay
Davenport	WPJ 1.712	Selfridge Field	WON 9.870	WET 9.470	WPGG 1.596
KGPN 2.466	Fairhaven	VK1 6.425	WOY 4.178	WEZ 6.928	Lancaster
Des Moines	WPN 1.712	Stannard Rock	WOY 4.753	WIR 4.276	WQFI 2.430
KGHO 1.682	Fitchburg	WVH 3.410	WOY 8.560	WJY 13.870	Lorain
KGZ 2.466	WPHA 2.466	MINNESOTA	WOY 12.840	WJN 7.370	WMES 2.558
Fairfield	Framingham		WOY 17.120	WKC 10.465	Massillon
KACC 1.682	WMP 1.666	Duluth	New Brunswick	WKL 8.940	WPHC 1.596
Sioux City	NOG 2.670	KNFE 2.382	WKJ 9.460	WKO 18.680	Portsmouth
KGPK 2.466	Marshfield	Minneapolis	WOC 4.253	WKO 15.970	WPGI 2.430
Storm Lake	WOU 2.506	KGPP 2.430	WOO 4.178	WKP 6.950	Steubenville
KNFO 1.682	Medford	Redwood Falls	WOO 4.753	WKU 14.830	WPHD 2.458
Waterloo	WPHG 1.712	KNHD 1.658	WOO 8.560	WKW 15.445	Suffield
KNFN 1.682	Millis	St. Paul	WOO 12.840	WLL 17.900	WMEP 2.930
KANSAS	W1XK 9.570	WPD5 2.430	WOO 17.120	WPE 13.840	WMEP 6.615
	Newton	MISSOURI	Passaic	WQB 17.940	Toledo
Chanute	WFFA 1.712	Jefferson City	WPDJ 2.414	WQC 17.860	WRDQ 2.474
KGZF 2.450	Northampton	KIUK 1.674	Tuckerton	WQE 18.920	Wilmington
Coffeyville	WPEW 1.666	Kansas City	WCG 10.370	WQF 17.920	WPHK 1.596
KGZP 2.450	Somerville	KGPE 2.422	Wayne	WQG 15.040	Wright Field
Dodge City	WPEH 1.712	Napoleon	W2XE 6.120	WQH 18.880	PE2 6.445
KNGH 2.474	W. Bridgewater	WYBF 2.604	W2XE 11.830	WQI 17.880	Youngstown
Garden City	WPEL 1.666	St. Louis	W2XE 15.270	WQL 14.815	WPDG 2.458
KNFH 2.474	Winthrop	KGPC 1.706	NEW MEXICO	WQN 5.263	Zanesville
Hutchinson	NMF 2.670	MONTANA	Albuquerque	WQN 5.505	WPHO 2.430
KGHN 2.450	Woods Hole	Glacier Nat'l Park	KGZX 2.414	WQN 5.825	OKLAHOMA
Leavenworth	NOP 2.670	KNIA 2.604	Clovis	WQO 6.725	Chickasha
KNFF 2.422	Worcester	NEBRASKA	KNFA 2.414	WQP 13.900	KACF 2.450
Manhattan	WPGX 2.466	Lincoln	Santa Fe	WQR 16.015	Duncan
W9XAK 2.050	MICHIGAN	KGZU 2.490	KGPF 2.414	WQS 13.915	KNGK 2.450
Topeka		Norfolk	NEW YORK	WQU 13.855	Lawton
KGZC 2.422	Bay City	KGPI 2.466	Albany	WQV 14.800	KGPH 2.466
Wichita	WPGA 2.466	NEVADA	WPGH 2.414	WQW 10.600	Muskogee
KGZP 2.450	Cheboygan	Reno	Auburn	WQY 20.100	KNGT 2.450
KENTUCKY	Range	KGHM 2.474	WPDN 2.382	WTT 18.940	Oklahoma City
Lexington	WVG 3.410	NEW HAMPSHIRE	Binghamton	Schenectady	KGPH 2.450
WPET 1.706	Detroit	Nashua	WPLG 2.442	W2XAD 15.330	Tulsa
Louisville	WCK 2.414	WPHB 2.422	Bronx	W2XAF 9.530	KGPH 2.450
WPDE 2.442	WKD 1.630	NEW JERSEY	WPEF 2.450	S. Schenectady	KGPO 2.450
LOUISIANA	WPD 2.414	Bound Brook	Brooklyn	WPGC 1.658	OREGON
	WPN 3.410	W3XAL 6.100	Buffalo	St. George	Hood River
Baton Rouge	WWR 3.410	W3XL 17.780	WPEE 2.450	WOX 2.590	KIJY 7.278
WPEQ 1.570	E. Lansing	W3XL 6.425	WPF 2.450	Syracuse	Klamath Falls
New Orleans	WRDS 1.642	W3XL 17.310	Buffalo	WPEA 2.382	KGZJ 2.442
WPEK 2.430	Flint	Cape May	NOB 2.670	Utica	Portland
Shreveport	WPDF 2.442	NOV 2.670	NOB 2.698	WPGJ 2.414	KGPP 2.442
KGPY 1.574	Fourteen Foot	NEW HAMPSHIRE	WNJ 2.422	Yonkers	Salem
KGZL 1.712	Shoals	Nashua	Huntington	WPFY 2.442	KGZR 2.442
KNGP 2.430	WWE 3.410	WPHB 2.422	WPGO 2.490	NORTH CAROLINA	PENN- SYLVANIA
MAINE	Grand Rapids	NEW JERSEY	Mineola	Asheville	Harrisburg
	WPEB 2.442	Bound Brook	WPGS 2.490	WFFS 2.458	WPSJ 1.674
Portland	WRDR 2.414	W3XAL 17.800	Mitchell Field	WFFS 2.474	New Castle
WPFU 2.422	Highland Park	W3XL 6.425	W09 6.385	Charlotte	WPGT 2.482
MARYLAND	WMO 2.414	W3XL 6.425	New York	WPDV 2.458	Oil City
Baltimore	WMO 2.414	W3XL 17.310	WQZ 3.423	NORTH DAKOTA	WPHZ 2.482
WPFH 2.414	Huron Island	Cape May	WPEG 2.450	Fargo	Philadelphia
	WVAA 3.410	NOV 2.670	Niagara Falls	KNHM 2.442	WPDJ 2.474
	Jackson		WPNF 2.422		
	WPHP 2.466		Oneonta		
	Lansing		WQFJ 2.414		
	WPDJ 2.442				

SHORT WAVE STATIONS BY LOCATIONS

WWHJ 3.410 W3XAU 6.060 W3XAU 9.590 Pittsburgh WPDU 1.712 W8XX 6.140 W8XX 9.570 W8XX 11.870 W8XX 15.210 W8XX 17.780 W8XX 21.540 Reading WPFE 2.442 Swarthmore WFFQ 2.474 Wilkes-Barre WQFM 2.442 RHODE ISLAND Cranston WPGK 2.466 E. Providence WPEI 1.712 Pawtucket WPFV 2.466 Providence WPGF 1.712 Woonsocket WPEM 2.466 SOUTH DAKOTA Rapid City KNGM 2.450 TENNESSEE Elizabethton WPHY 2.474 Johnson City WPGZ 2.474 Knoxville WPFO 2.474 Memphis WPEC 2.466	TEXAS Austin KGHU 2.442 Beaumont KGPJ 1.712 Brownsville KGHT 2.382 Brownwood KNGW 2.458 Cleburne KNGE 1.712 Corpus Christi KGHV 2.382 Dallas KVP 1.712 Denton KNHF 1.712 El Paso KGZM 2.414 Fort Worth KGPR 1.712 Galveston KNGL 1.712 HOUSTON NOY 2.670 Houston KGBZ 1.712 Lubbock KGZW 2.458 San Antonio KGZE 2.482 Waco KGZQ 1.712 Wichita Falls KGZI 2.458 UTAH Salt Lake City KGPW 2.406 VIRGINIA Bolling Field FS3 5.015 Cape Henry NMN 2.670	Langley Field FG7 6.645 Lynchburg WQFH 2.450 Petersburg WQFI 2.450 Richmond WPHF 2.450 Roanoke WQFG 2.450 WASHINGTON Aberdeen KGZV 2.414 Bear River Camp KNFY 2.490 Bellingham KNFK 2.490 Cataract Creek KNLT 3.387 Centralia KGHW 2.414 Chinook Pass KGHV 2.490 Edmonds KOW 2.522 Ellenburg KNFX 2.490 Ephrata KNGZ 2.490 Everett KNFP 2.414 Ft. Lewis YT2 4.200 Fremont KNLV 3.387 Grays Harbor NMW 2.670 Hells Crossing Camp KNFZ 2.490 Longmire KGYA 3.387 KGVB 3.387	Mt. Olympus KNDI 3.387 KNDK 3.387 KNDL 3.387 KNDM 3.387 KNDP 3.387 KNDS 3.387 KNDT 3.387 Mt. Ranier KGYC 3.387 KFYD 3.387 KGYF 3.387 KNLS 3.387 KNLX 3.387 KNLU 3.387 Mt. Vernon KNFI 2.414 North Bend KBAL 3.200 Olympia KACE 2.414 KABT 3.300 KNFG 2.490 Port Townsend NOZ 2.670 Pt. Angeles KNFC 2.490 Quilcene KBAU 3.300 Satus Pass Camp KNGA 2.490 Seattle KBAP 3.200 KGHD 2.490 KGPA 2.414 KGYI 3.387 WVD 2.604 WVD 5.995 WVD 6.618 WVD 8.620 W7XX 3.493 Shuksan Camp KNFL 2.490 Skykomish KNFU 2.490	Snoqualmie Pass KGHE 2.490 Spokane KGHS 2.414 KGHS 2.458 Tacoma KGZN 2.414 Vancouver KNGC 2.490 Walla Walla KNGD 2.490 Wenatchee KNGQ 2.490 White River WGVE 3.387 Yakima KNGB 2.490 KNGU 2.414 WEST VIRGINIA Charleston WPHI 2.490 Clarksburg WFPF 2.490 Fairmont WPHJ 2.490 Parkersburg WPHQ 2.490 WISCONSIN Green Bay KNHB 2.382 Kenosha WPEP 2.450 Milwaukee WPKD 2.450 URUGUAY (CVA-CXA) Montevideo CWD 5.830	CWE 6.610 CWF 8.455 CWG 11.370 CWH 13.140 VATICAN STATE (HVA-HVZ) Vatican City HVJ 5.970 HVJ 15.120 VENEZUELA (YVA-YWZ) Barquisimeto YV8RB 5.875 Caracas YV2RC 6.112 YV3RC 6.150 YV4RC 6.375 YV5RC 6.400 Maracaibo YV5RMO 5.850 Maracay YVQ 6.672 YVQ 13.337 YVR 9.168 YVR 18.296 San Cristobal YV10RSC 5.720 Valencia YV6RV 6.520 VIRGIN ISLANDS (W) St. Thomas WTDV 4.295 St. Croix WTDW 4.295 St. John WTDX 4.295
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SHORT WAVE STATIONS BY CALLS

CEC 5.820	CFX 2.284	CJ K 1.510	CQN 6.073	CZV 3.300	DHDL 4.413	DJN 9.540
CEC 7.740	CGA 1.810	CJM 1.580	CRCX 6.090	CZV 4.840	DHDL 8.830	DJO 11.790
CEC 8.710	CGA2 13.745	CJRO 6.150	CR6AA 7.175	CZY 1.620	DHDL 13.040	DJQ 15.280
CEC 10.670	CGA4 9.332	CJRX 11.720	CSL 6.150	CZZ 1.620	DHEY 4.413	DJR 15.340
CEC 15.860	CGA6 6.690	CJU 3.070	CT1AA 9.600	DAF 4.320	DHEY 8.820	DOAH 4.413
CEC 19.680	CGA7 6.880	CJU 3.452	CT1AA 15.350	DAF 8.464	DHEY 13.040	DOAH 8.830
CFA2 4.465	CGA9 4.348	CJW 2.416	CT1CT 3.750	DAF 12.325	DHEY 16.660	DOAH 13.040
CFC 1.596	CGD 3.340	CJX 2.290	CT1GO 6.132	DAF 12.745	DHJZ 4.413	DOAI 4.413
CFC 1.668	CGE 3.040	CJZ 2.452	CT2AJ 4.000	DAF 17.260	DHJZ 8.830	DOAI 8.830
CFD 1.620	CGF 7.550	CKB 2.284	CWD 5.830	DDBR 4.413	DHJZ 13.040	DOAI 13.040
CFD 1.620	CGM 3.152	CKO 2.284	CWE 6.610	DDBR 8.830	DHO 20.020	DOAI 16.600
CFD 1.620	CGM 3.340	CKP 2.284	CWF 8.455	DDBR 13.040	DHRL 4.413	EAQ 9.862
CFJ 1.620	CGO 4.506	CKS 3.040	CWG 11.370	DDCP 4.413	DHRL 8.830	FG7 6.645
CFJ 1.620	CGP 3.268	CKS 7.550	CWH 13.140	DDCP 8.830	DHRL 13.040	FNSK 4.413
CFJ 1.620	CGQ 5.405	CKU 2.284	CZA 2.980	DDCP 13.040	DHTY 4.413	FNSK 8.810
CFJ 1.620	CGQ 1.668	CMB 5.780	CZA 4.785	DDFF 4.413	DHTY 8.830	FNSK 8.830
CFM 1.620	CGT 4.865	CNR 8.035	CZA 17.310	DDFF 8.830	DHTY 13.840	FNSK 13.190
CFQ 3.040	CGV 1.596	COCD 6.130	CZB 1.620	DDFF 13.040	DHTY 16.765	FNSK 13.210
CFQ 7.550	CGV 1.668	COCH 9.428	CZG 2.416	DDFT 8.830	DJA 9.560	FNSM 4.413
CFT 2.284	CGY 3.152	COCO 6.010	CZG 6.425	DDFT 13.040	DJB 15.200	FNSM 8.830
CFU 4.755	CGZ 2.452	CO9GC 6.150	CZJ 1.596	DFB 17.520	DJC 6.020	FNSM 13.395
CFU 5.668	CJA3 17.710	CO9JQ 8.665	CZJ 1.668	DGK 6.675	DJD 11.770	FTA 11.840
CFU 6.720	CJA6 6.760	CO9WR 11.800	CZL 2.290	DGU 9.609	DJE 17.760	FTE 18.330
CFU 13.200	CJD 1.510	CP5 6.080	CZO 4.505	DHAO 4.413	DJG 4.580	FTM 15.863
CFV 2.290	CJD 1.540	CP6 9.120	CZP 4.505	DHAO 8.830	DJK 12.035	FTK 19.355
CFW 2.290	CJE 2.290	CP7 15.300	CZQ 4.505	DHAO 13.040	DJM 6.080	FTN 12.260

SHORT WAVE STATIONS BY CALLS

FTNQ	4.413	HIZ	6.340	JVK	12.020	KGHU	2.442	KIDE	3.265	KNDS	3.387	KZGF	9.170
FTNQ	8.830	HI1A	6.185	JVL	11.660	KGHV	2.382	KIED	1.622	KNDT	3.387	KZGG	5.825
FTNQ	13.395	HI4D	6.500	JVM	10.740	KGHW	2.414	KIED	2.150	KNED	1.606	KZGG	8.940
FZR	16.200	HJA2	5.825	JVN	10.660	KGHX	2.430	KIEJ	2.994	KNED	2.020	KZGH	5.795
FZS	18.342	HJA3	7.685	JVO	10.375	KGHY	1.712	KIEF	1.120	KNED	2.102	KZGH	9.490
FZ52	11.990	HJA3	8.790	JVP	7.510	KGHZ	2.406	KIEI	1.622	KNEF	2.830	LCL	6.130
GAA	20.368	HJA3	12.830	JVQ	7.470	KGJ	2.632	KIFI	2.150	KNFA	2.414	LCO	13.980
GAQ	18.970	HJA7	5.400	JVR	7.390	KGJX	1.712	KIFT	2.150	KNFB	2.458	LKJ	9.540
GAS	18.304	HJB	14.930	JVS	6.990	KGJ	2.512	KIGA	1.606	KNFE	2.382	LQA	9.600
GAU	18.620	HJN	6.080	JVT	6.750	KGJZ	2.466	KIGA	2.102	KNFF	2.422	LSF	19.600
GAW	18.290	HJP	7.465	JVU	5.790	KGPA	2.414	KIGW	2.102	KNFG	2.490	LSG	19.900
GBA	13.984	HJY	9.930	JVV	5.730	KGPB	2.430	KIHH	2.190	KNFH	2.474	LSL	9.990
GBB	13.500	HJY	18.444	JYK	13.600	KGPC	1.706	KIJJ	2.994	KNFI	2.414	LSM	19.120
GBC	4.430	HJ1ARB	6.447	JYR	7.880	KGPD	2.466	KIJJ	3.190	KNFJ	1.712	LSM	21.128
GBC	4.975	HJ1ABD	7.280	JYS	9.840	KGPE	2.422	KIJK	2.994	KNFK	2.490	LSN	9.895
GBC	8.688	HJ1ABE	6.115	JYT	15.760	KGPF	2.414	KIJK	3.190	KNFL	2.490	LSN	14.480
GBC	12.780	HJ1ABG	6.042	JZA	15.680	KGPG	2.422	KIIL	2.994	KNFM	2.490	LSN	21.020
GBC	17.080	HJ1ABJ	6.300	JZB	10.960	KGPH	2.450	KIIL	3.190	KNFN	1.682	LSN2	9.890
GBP	10.770	HJ1ABJ	6.006	JZC	5.830	KGPI	2.466	KIIM	2.994	KNFO	1.682	LSR	18.958
GBS	12.150	HJ2ABA	6.170	JZD	16.910	KGPI	1.712	KIIM	3.190	KNFP	2.414	LSX	10.350
GBU	12.240	HJ2ABC	5.975	JZE	13.020	KGPK	2.466	KIIN	2.994	KNFR	2.490	LSY3	18.115
GBU	22.290	HJ2ABD	5.980	JZF	8.500	KGPL	1.712	KIIN	3.190	KNFS	2.490	NMC	2.670
GBW	14.440	HJ3AB	7.390	JZG	6.330	KGPM	2.466	KIIO	2.994	KNFU	2.490	NMD	2.670
GBX	10.530	HJ3ABF	6.200	KACC	1.682	KGPN	2.466	KIIO	3.190	KNFX	2.490	NMD	2.698
GBX	16.150	HJ3ABH	6.012	KACD	1.682	KGPO	2.450	KIIP	3.093	KNFY	2.490	NMF	2.670
GBZW	4.413	HJ4ABA11.720	KACE	2.414	KGPP	2.442	KIIQ	2.150	KNFZ	2.490	NMG	2.670	
GBZW	8.830	HJ4ABC	6.230	KACF	2.450	KGPP	1.712	KIIV	2.726	KNGA	2.490	NMN	2.670
GBZW	13.320	HJ4ABE	5.900	KAEB	2.616	KGPR	1.712	KIIV	2.726	KNGB	2.490	NMP	2.670
GCA	9.710	HJ5ABL	6.100	KAEB	3.265	KGPS	2.414	KIIV	2.726	KNGC	2.490	NMP	2.698
GCB	9.280	HJ5ABD	6.490	KAED	2.616	KGPW	2.406	KIJB	2.994	KNGD	2.490	NMV	2.670
GCJ	13.415	HJ5ABE	14.000	KAED	3.093	KGPY	2.442	KIJI	1.622	KNGE	1.712	NMW	2.670
GCS	9.020	HKE	7.090	KAEF	2.616	KGQ	1.574	KIJK	1.622	KNGF	2.422	NMY	2.670
GCU	9.950	HPC	10.290	KAEF	2.994	KGQZ	2.450	KIJO	1.622	KNGG	1.698	NOB	2.670
GCW	9.790	HPF	14.545	KAX	19.980	KGQ	2.986	KIJP	2.986	KNGH	2.474	NOB	2.698
GDB	4.320	HPSB	6.030	KAY	14.980	KGX	2.632	KIJR	2.986	KNGJ	2.490	NOF	2.670
GDB	6.790	HP5J	9.950	KAZ	9.990	KGXU	1.622	KIJS	1.622	KNKG	2.450	NOG	2.670
GDJL	4.430	HRM	13.810	KBAA	3.385	KGXW	1.606	KIJU	2.986	KNGL	1.712	NOJ	2.670
GDJL	13.320	HSJ	8.020	KBAD	3.410	KGYA	1.622	KIJV	1.622	KNGM	2.450	NOM	2.670
GDS	6.095	HSP	7.968	KBAL	3.204	KGYP	3.387	KIJW	2.632	KNGN	2.490	NOP	2.670
GDW	4.820	HSP	8.396	KBAL	3.200	KGYC	3.387	KIJX	2.632	KNGO	2.450	NOR	2.670
GLRZ	4.415	HSP	17.740	KBAM	3.445	KGYP	3.387	KIJY	2.728	KNGP	2.430	NOR	2.698
GMBJ	4.413	HVJ	5.970	KBAP	3.200	KGYE	3.387	KIJZ	2.728	KNGT	2.450	NOU	2.670
GMBJ	12.955	HVJ	15.120	KBAT	3.300	KGYP	3.387	KIKL	6.615	KNGU	2.414	NOV	2.670
GSA	6.050	IAC	4.355	KBAU	3.300	KGYG	3.387	KIKN	3.093	KNQ	2.490	NOY	2.670
GSB	9.510	IAC	6.650	KBCA	3.385	KGYP	3.387	KIKY	3.265	KNGR	2.490	NOZ	2.670
GSC	9.580	IAC	12.795	KBCB	3.385	KGYP	3.387	KILU	1.622	KNZ	2.490	OAX4D	5.780
GSD	11.750	IAC	17.770	KBCD	3.445	KGZA	2.414	KILU	2.150	KNHB	2.682	OAX4G	6.230
GSE	11.860	IAF	5.415	KBCE	3.445	KGZB	2.414	KILY	2.994	KNHD	1.538	OCI	18.670
GSG	15.140	IAF	29.820	KBCF	3.445	KGZC	2.422	KIMA	2.632	KNHF	1.712	OER2	6.072
GSF	17.790	IAG	30.604	KBCG	3.385	KGZD	2.490	KINT	2.726	KNHM	2.442	OPL	20.040
GSH	21.470	ICEJ	13.050	KBCJ	3.385	KGZE	2.482	KIO	11.680	KNIA	2.604	OPM	10.135
GSI	15.260	IRA	6.070	KBCJ	3.155	KGZF	2.450	KIOC	2.632	KNKG	3.410	ORP	19.200
GSJ	21.530	IRE	11.810	KBCQ	3.300	KGZG	2.466	KIOD	2.632	KNKS	2.604	ORK	10.330
GSK	26.100	IRF	8.070	KBK	6.718	KGZH	2.442	KIOG	1.622	KNKU	2.604	OXY	6.060
GSL	6.110	IRG	14.740	KDH	2.538	KGZI	2.458	KIOH	2.632	KNKX	2.604	OXY	9.490
G6RX	4.320	IRJ	13.105	KDK	2.538	KGZJ	2.430	KIOI	2.632	KNKY	2.604	OXY	15.300
HAS3	15.370	IRM	9.823	KDV	2.538	KGZL	1.712	KION	2.616	KNLO	3.410	PCJ	15.220
HAT	5.400	IRO	9.780	KDX	2.986	KGZM	2.414	KIUJ	1.674	KNLP	3.410	PCK	18.400
HAT2	7.220	IRW	19.520	KDY	2.994	KGZN	2.414	KIUQ	2.616	KNLQ	3.410	PCM	18.600
HAT3	8.565	IS3	5.015	KEE	7.715	KGZO	2.414	KIUZ	3.093	KNLR	3.410	PCV	17.830
HAT4	9.125	I2R0	5.550	KEJ	9.010	KGZP	2.450	KKH	7.520	KNLS	3.387	PDK	10.410
HBF	18.950	I2R0	5.725	KEL	6.860	KGZQ	1.712	KKL	15.475	KNLT	3.387	PDB	12.050
HBH	18.450	I2R0	6.085	KEQ	6.733	KGZR	2.442	KKP	16.030	KNLU	3.387	PD1	6.445
HBJ	14.535	I2R0	6.980	KES	9.480	KGZT	1.674	KKQ	11.950	KNLV	3.387	PE2	6.445
HBL	9.595	I2R0	9.630	KEZ	10.400	KGZU	2.490	KKW	13.780	KNLX	3.387	PHI	11.725
HBP	7.797	JDJ	15.510	KFF	2.566	KGZV	2.414	KKZ	13.690	KOU	2.566	PHI	17.775
HBO	10.030	JDY	9.920	KGHA	2.490	KGZW	2.458	KLA	2.566	KOW	2.522	PLE	18.830
HB9AT	14.290	JDZ	5.710	KGHB	2.490	KGZX	2.414	KLB	2.512	KQJ	18.020	PLF	17.850
HB9B	14.236	JIA	15.750	KGHC	2.490	KGZY	1.712	KLC	2.512	KRO	5.845	PLG	15.950
HB9H	7.005	JIB	10.530	KGHD	2.490	KHP	1.622	KLD	2.566	KSW	1.658	PLP	11.000
HB9J	14.400	JIC	5.890	KGHE	2.490	KHV	2.566	KLE	2.512	KSW	2.422	PLV	9.415
HCBJ	8.214	JVA	18.910	KGHG	2.474	KHW	2.912	KLGK	2.912	KTO	16.240	PMA	19.345
HCK	5.815	JVB	18.190	KGHH	1.674	KHZ	2.912	KLH	2.506	KTP	8.120	PMB	20.606
HC2CW	8.625	JVC	16.050	KGHM	2.474	KIAP	3.093	KMYA	2.304	KVP	1.712	PMC	18.135
HC2ET	4.600	JVD	15.860	KGHN	2.450	KIAY	3.093	KMYA	4.610	KWN	21.060	PMN	10.260
HC2JSB	7.770	JVE	15.660	KGHO	1.682	KIAY	3.093	KNBZ	2.994	KWO	15.415	PMT	5.140
HC2RL	6.650	JVF	15.620	KGHP	2.466	KIBA	3.093	KNDI	3.387	KWU	15.355	PNI	8.775
H1H	8.800	JVG	14.910	KGHQ	2.490	KIBZ	3.265	KNDK	3.387	KWV	10.840	PNQ	11.670
H1I	10.040	JVH	14.640	KGHR	2.490	KICE	3.265	KNDL	3.387	KWX	7.610	PPU	19.270
H1L	6.518	JVI	13.560	KGHS	2.458	KICG	3.265	KNDM	3.387	KWY	7.565	PRADO	6.620
H1X	5.980	JVJ	12.270	KGHT	2.382	KICI	3.093	KNDP	3.387	KZGF	5.765	PRF5	9.505

SHORT WAVE STATIONS BY CALLS

PSA	21.069	VPD	13.075	WKF	19.220	WPDP	2.474	WPHJ	2.490	W1XAL	21.460	YDG2	3.470
PSA	14.935	VP3MR	7.080	WKJ	9.460	WPDR	2.422	WPHK	1.596	W1XH	2.110	YBG3	3.150
PSD	15.070	VQJM	4.430	WKL	21.410	WPDS	2.430	WPHM	2.442	W1XK	9.570	YDG4	2.850
PSF	14.690	VQJN	8.830	WKM	18.860	WPDH	2.490	WPHN	2.466	W2XAD	15.330	YDG5	2.098
PSH	10.220	VQJP	4.430	WKN	19.820	WPDJ	1.712	WPHO	2.430	W2XAF	9.530	YDG6	1.900
PSK	8.180	VQJQ	8.830	WKO	15.970	WPDV	2.458	WPHP	2.466	W2XBJ	4.550	YDG7	3.300
RAU	15.104	VQZLO	6.060	WKP	6.950	WPDW	2.422	WPHQ	2.490	W2XBJ	10.370	YDH3	3.490
RFF	7.260	VUB	9.565	WKU	14.830	WPDX	2.414	WPHS	1.634	W2XBJ	13.900	YDH4	3.310
RIM	7.626	VUC	6.112	WKV	15.445	WPDY	2.414	WPHU	1.634	W2XBJ	17.940	YDH5	3.250
RIO	10.160	VUC	9.575	WLA	18.350	WPEA	2.490	WPHY	2.474	W2XE	6.120	YDH6	3.130
RIR	5.040	VWY	8.975	WLB	15.455	WPEB	2.382	WPHZ	2.482	W2XE	11.830	YDH7	1.960
RIR	10.080	VWY	17.480	WLEZ	1.646	WPEB	2.442	WPSP	1.674	W2XE	15.270	YDH9	1.920
RKF	4.875	VWZ	8.690	WLEZ	2.150	WPEC	2.466	WQB	17.940	W3XAL	6.100	YDI2	2.110
RKF	6.870	VWZ	8.693	WLL	16.270	WPEE	1.712	WQC	17.860	W3XAL	17.780	YDJ2	3.270
RKF	6.880	VWZ	8.700	WLL	17.900	WPEE	2.450	WQE	18.920	W3XAU	6.060	YDJ3	2.870
RKF	6.900	VWZ	8.708	WMA	13.390	WPEF	2.450	WQF	17.920	W3XAU	9.590	YDJ4	1.840
RKF	9.750	VXU	5.940	WMDU	3.070	WPEG	2.450	WQF	2.466	W3XL	6.425	YDK2	3.190
RKF	12.500	VXV	5.940	WMDU	5.405	WPEH	1.712	WQFB	2.434	W3XL	17.310	YDK3	2.910
RKI	7.520	VXW	5.940	WMDZ	2.442	WPEI	1.712	WQFC	2.466	W4XB	6.040	YDK4	3.270
RKI	15.040	VXX	5.405	WMEF	1.606	WPEJ	1.712	WQFE	1.634	W7XK	3.493	YDK5	2.710
RKI	15.090	VYP	1.596	WMEF	2.020	WPEK	2.430	WQFH	2.450	W8XA	1.682	YDK6	1.860
RKK	6.135	VYP	1.668	WMEF	2.102	WPEL	1.666	WQFH	2.450	W8XAL	6.060	YDL2	4.810
RKK	12.270	VYR	1.712	WMEF	2.768	WPEM	2.466	WQFI	2.450	W8XK	6.140	YDL3	3.450
RNE	12.000	VYW	2.416	WMEP	2.930	WPEP	2.450	WQFJ	2.434	W8XK	9.570	YDL4	3.410
ROI	5.490	VYZ	2.212	WMEP	6.615	WPEQ	1.570	WQFK	2.466	W8XK	13.870	YDL5	3.210
RPK	7.225	WAD	8.930	WMEQ	6.615	WPEE	2.442	WQFL	2.442	W8XK	15.210	YDL6	2.750
RPT	5.995	WAKA	2.490	WMEE	2.550	WPET	1.706	WQFM	2.442	W8XK	17.780	YDM2	3.320
RRD	8.225	WAW	12.930	WMEU	2.930	WPEU	1.666	WQFN	2.442	W8XK	21.540	YDM1	1.940
RSB	5.375	WCG	10.370	WMEU	6.615	WPEW	1.666	WQFO	2.442	W8XK	6.080	YDM3	2.790
RSN	5.440	WCK	2.414	WMEV	2.930	WPEX	1.712	WQFV	2.434	W8XK	9.590	YDM4	1.840
RTA	8.770	WDB	6.718	WMEV	6.615	WPEY	2.442	WQFW	1.634	W8XAL	17.780	YDO3	3.290
RTA	6.440	WDDQ	2.738	WMF	14.470	WPF0	2.430	WQFZ	2.458	W8XAK	2.050	YDO4	3.180
RTZ	7.275	WDFL	2.738	WMJ	2.422	WPF1	2.442	WQG	15.040	W8XBS	6.425	YDO5	2.930
RV15	4.273	WDG	4.535	WMN	14.590	WPF2	2.442	WQH	18.880	W8XBU	1.634	YDO6	2.770
RV59	5.996	WDN	4.550	WMO	2.414	WPFH	2.414	WQI	17.880	W8XF	6.100	YDO7	2.070
SPW	13.630	WDS	18.900	WMP	1.666	WPFJ	2.414	WQL	14.815	W8XF	6.425	YDO8	1.980
SR1	9.490	WEA	10.610	WNA	9.370	WPFK	2.430	WQN	5.263	W8XQ	6.425	YDO9	1.880
SUV	10.055	WEB	6.935	WNB	10.675	WPFM	2.382	WQN	5.505	XBJQ	11.000	YDQ2	3.390
SUZ	13.810	WEC	8.930	WNC	15.055	WPFN	1.712	WQN	5.825	XEBI	5.980	YDQ3	3.350
TFK	9.050	WEL	8.950	WND	4.098	WPF0	2.474	WQO	6.725	XEBT	6.000	YDQ4	3.230
TGF	14.545	WEL	13.435	WNEI	1.622	WPF1	2.490	WQP	13.900	XECR	7.380	YDQ5	2.950
TGWA	6.000	WEM	7.400	WNEI	2.150	WPF2	2.474	WQR	16.015	XEDQ	9.520	YDQ6	2.810
TGXA	6.130	WES	9.448	WNER	2.060	WPF5	2.458	WQS	13.915	XEFT	6.120	YDU2	4.710
TG1X	9.450	WET	9.470	WNFG	2.538	WPF6	2.474	WQU	13.855	XEOK	6.138	YDU3	5.260
TG2X	5.940	WEY	1.630	WNFJ	2.986	WPF7	2.442	WQV	14.800	XEUW	6.020	YDU4	2.830
TIEP	6.710	WEZ	6.928	WNFP	2.422	WPFU	2.422	WQW	10.600	XGB	11.140	YDU5	1.850
TIEP	13.415	WHER	2.102	WOA	6.755	WPFV	2.466	WQY	20.100	XGBD	9.580	YDV2	3.330
TIGPH	5.820	WHER	1.606	WOB	5.850	WPFW	2.466	WRBH	2.458	XGK	18.690	YNA	14.480
TIN	14.545	WIED	1.566	WOF	9.750	WPFX	2.442	WRDQ	2.474	XGL	7.960	YNLF	6.714
TIU	14.545	WIED	2.390	WOG	4.253	WPFY	2.442	WRDR	2.414	XGN	16.380	YNI6G	6.450
TIPG	6.650	WIEG	2.150	WOK	10.550	WPFZ	2.442	WRDS	1.642	XGO	7.575	YVQ	6.672
TIR	7.685	WIEH	1.622	WON	9.870	WPGA	2.466	WRJ	3.410	XGOX	6.000	YVQ	13.337
TIRCC	6.650	WIEK	1.646	WOO	4.178	WPGB	2.466	WST	3.410	XGOX	9.500	YVR	9.168
TYA	12.215	WIEK	2.190	WOO	4.753	WPGC	1.658	WTDV	4.295	XGOX	11.900	YVR	18.296
VAC	1.510	WIEL	1.646	WOO	8.560	WPGD	2.458	WTDW	4.295	XGOX	17.800	YV2RC	6.112
VAF	1.510	WIEL	2.190	WOO	12.840	WPGF	1.712	WTDX	4.295	XGOX	10.420	YV3RC	6.150
VBY	2.350	WIEO	1.606	WOO	17.120	WPGG	1.596	WTR	6.385	YBG	10.430	YV3RC	9.510
VBQ	1.540	WIEO	2.020	WOU	2.506	WPGH	2.414	WTT	18.940	YBZ	7.680	YV4RC	6.375
VBQ	1.650	WIEO	2.102	WOX	2.590	WPGI	2.430	WVD	2.604	YCP	8.575	YV5RMS	0.850
VE9AS	6.425	WIEO	2.760	WOY	4.178	WPGJ	2.414	WVD	5.995	YDA	3.040	YV6RV	6.520
VE9CB	6.090	WIEW	1.606	WOY	4.753	WPGK	2.466	WVD	6.618	YDA	6.040	YV10RSC5	7.720
VE9CA	6.030	WIEW	2.102	WOY	8.560	WPLG	2.442	WWAD	4.988	YDA2	2.385	ZBV	8.750
VE9CS	6.070	WIEX	1.566	WOY	12.840	WPGM	2.414	WWAJ	3.410	YDA3	1.640	ZEA	6.590
VE9DN	6.005	WIEX	1.606	WOY	17.120	WPGN	2.490	WWAL	3.410	YDA4	1.550	ZEB	6.590
VE9DN	9.555	WIEX	2.102	WOZ	3.423	WPGO	2.490	WWAM	3.410	YDA5	6.120	ZFA	5.025
VE9DR	6.005	WIEX	2.390	WO9	6.385	WPGP	2.442	WWAO	3.410	YDA6	2.870	ZFB	10.055
VE9DR	9.580	WIFI	2.738	WPDA	2.414	WPGQ	1.596	WWE	3.410	YDA7	3.270	ZFD	10.335
VE9EH	6.000	WIR	4.276	WPDB	1.712	WPGS	2.490	WWG	3.410	YDA8	1.510	ZFO	5.300
VE9GW	11.810	WIY	13.870	WPDC	1.712	WPGT	2.482	WWW	3.410	YDB	4.470	ZFS	4.512
VFJ	2.290	WJER	1.606	WPDD	1.712	WPGV	1.712	WWWJ	3.410	YDB2	2.450	ZGE	6.125
VI23	11.495	WJER	2.102	WPDE	2.442	WPGW	2.382	WWWM	3.410	YDB3	1.660	ZHI	6.060
VK1	6.425	WJN	7.370	WPDF	2.442	WPGX	2.466	WWN	3.410	YDB4	1.615	ZHJ	6.080
VK2ME	9.585	WKA	21.060	WPDG	2.458	WPGZ	2.474	WWR	3.410	YDB5	1.595	ZLR	7.390
VK3LR	5.678	WKC	10.465	WPDH	2.442	WPHA	2.466	WWH	3.410	YDB6	1.570	ZLS	8.900
VK3LR	9.580	WKDL	3.070	WPDI	2.430	WPHB	2.422	WXA	8.050	YDB7	1.530	ZLT	10.990
VK3ME	5.903	WKDL	5.405	WPDJ	2.414	WPHC	1.596	WXH	2.604	YDD2	1.630	ZSS	19.890
VLJ	9.750	WKDT	1.630	WPDK	2.450	WPHD	2.458	WXH	6.662	YDD3	1.585	ZSV	8.220
VLK	8.095	WKDU	1.706	WPDL	2.442	WPHF	1.634	WYBF	2.604	YDE2	4.810	ZSU	12.500
VLK	10.520	WKEM	1.622	WPDN	2.430	WPHG	2.450	W1XAL	6.040	YDE3	2.910	ZTJ	6.123
VLK	7.960	WKEM	2.150	WPDN	2.382	WPHH	1.712	W1XAL	11.790	YDE4	2.415	ZP10	6.666
VLZ	7.980	WKF	4.253	WPDO	2.458	WPHI	2.490	W1XAL	15.250	YDE5	2.350	ZP11	3.800

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

530 kilocycles (565.7)

CJKL ak 1000 Kirkland Lake, Ont., Northern Brdctg. Co., Ltd.

540 kilocycles (555.2)

CJRM ak 1000 F Moose Jaw, Sask., J. Richardsons & Sons, 311 Main St.

550 kilocycles (545.1)

CFNB ak 500 F (1) Fredericton, N. B., J. S. Neill & Sons, York St.
 KFUO ae 500 2 (1) St. Louis, Mo., Evangelical Lutheran Synod, 801 DeMun St.
 KFYR ae 1000 N (5) Bismarck, N. D., Meyer Brdctg. Co., 320 Broadway
 KOAC ak 1000 Corvallis, Ore., State Agricultural College
 KSD ak 1000 2R St. Louis, Mo., St. Louis Post-Dispatch
 K TSA ak 1000 C (5) San Antonio, Texas, Southwest Brdctg. Co., Plaza Hotel
 WDEV ae 500 D Waterbury, Vt., Harry C. Whitehill, Stowe St.
 WGR ck 1000 C Buffalo, N. Y., Buffalo Brdctg. Corp., Rand Bldg.
 WKRC ak 1000 C Cincinnati, Ohio, WKRC Inc., Hotel Alms
 WSYA ak 500 D Harrisonburg, Va., Marion Gilliam, Main & Market Sts.

560 kilocycles (535.4)

KFDM ak 500 (1) Beaumont, Texas, Sabine Brdctg. Co., Box 2950
 KLZ ae 1000 C Denver, Colo., Reynolds Radio Co., Shirley-Savoy Hotel
 KSFO ak 1000 San Francisco, Calif., Russ Bldg.
 KWTO ak 5000 D Springfield, Mo., KGBX Inc., St. Louis at Kimbrough
 WFIL ak 1000 B Philadelphia, Pa., WFIL Brdctg. Co., 801 Market St.
 WIND ak 1000 (5) Gary, Ind., Johnson-Kennedy Corp., 504 Broadway
 WNOX ak 1000 C (2) Knoxville, Tenn., Continental Radio Corp., Hotel A. Johnson
 WQAM ae 1000 C Miami, Fla., Miami Brdctg. Co., 327 N. E. 1st Ave.
 XEAO ak 250 (.15) Mexicali, L. C., Luis Castro, Altamirano 156
 XEFC ak 100 Merida, Yuc., J. Molina Font., Calle 59, 517

570 kilocycles (526.0)

KGKO ak 250 C (1) Wichita Falls, Tex., Wichita Falls Brdctg., 9th & Indiana
 KMTR ak 1000 Hollywood, Calif., KMTR Radio Corp., 915 N. Formosa Ave.
 KVI ak 1000 C Tacoma, Wash., Puget Sound Brdctg. Co., Rust Bldg.
 WKBN ae 500 1C Youngstown, Ohio, WKBN Brdctg. Corp., 17 N. Champion St.
 WMCA ak 500 New York, N. Y., Knickerbocker Brdctg. Co., 1697 Broadway
 WNAX ak 1000 C (5) Yankton, S. D., WNAX Brdctg. Co., 2nd and Capitol
 WOSU ak 750 1 (1) Columbus, Ohio, Ohio State University
 WSYR ak 250 BX Syracuse, N. Y., 315 Starret-Syracuse Bldg.
 WWNC ak 1000 N Asheville, N. C., Citizen Brdctg. Co., Inc., Flatiron Bldg.

580 kilocycles (516.9)

CFPR z 50 Prince Rupert, B. C., Felix E. Batt, Box 79
 CHRC ak 100 F Quebec, Que., CHRC, Ltd., Victoria Hotel
 CJRC ak 100 F Winnipeg, Man., J. Richardsons & Sons, Royal Alexandra
 CKCL ae 100 F Toronto, Ont., Dominion Battery Co., 444 University
 GKUA ak 500 Edmonton, Alta., University of Alberta
 KMJ ak 1000 C Fresno, Calif., J. McClatchy Co., Van Ness & Calaveras
 KSAC ak 500 2 (1) Manhattan, Kans., Stare College of Agriculture
 WCHS ak 500 (1) Charleston, W. Va., WOBU, Inc., Ruffner Hotel
 WDBO ae 1000 C2 Orlando, Fla., Orlando Brdctg. Co., Box 1097
 WIBW ak 1000 C (5) Topeka, Kans., 11th and Topeka Bld.
 WTAG ae 500 R Worcester, Mass., Worcester Telegram, 18 Franklin St.

590 kilocycles (508.2)

KHQ ak 1000 N (2.5) Spokane, Wash., Louis Wasmer, Inc., Sprague & Post
 WEEI ak 1000 R Boston, Mass., Edison Electric Co., 182 Tremont
 WKZO ae 1000 D Kalamazoo, Mich., John Fetzler, Burdick Hotel
 WOW ae 1000 R (5) Omaha, Neb., Woodmen of the World, 4th & Farnam
 XEPN ak 50000 Piedras Negras, Coah., Piedras Negras Brdctg. Co., Box 360

600 kilocycles (499.7)

CFCF ae 400 FN Montreal, Que., Canadian Marconi, Mt. Royal Hotel
 CJOR ak 500 Vancouver, B. C., G. C. Chandler, Hotel Grosvenor
 CMW ak 1000 Havana, Cuba, Troncoso y Gil, Prado 105 (altos)
 CRCW ak 500 F (1) Windsor, Ont., C. R. B. C., Guaranty Trust Bldg.
 FQN z 250 609 St. Pierre, Miquelon

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFSD	ae	1000	N	San Diego, Calif., Airfan Radio Corp., U. S. Grant Hotel
WCAC	ak	500	2	Storrs, Conn., Connecticut State College
WCAO	ae	500	C (1)	Baltimore, Md., Monumental Radio Co., 811 W. Lanvale
WICC	ae	500	2 C (1)	Bridgeport, Conn., So. Conn. Brdcastg. Corp., Stratfield Hotel
WMT	ak	1000	B (2.5)	Cedar Rapids, Iowa, Waterloo Brdcastg. Co., Hotel Montrose
WREC	ak	1000	C (2.5)	Memphis, Tenn., WREC Inc., Hotel Peabody

610 kilocycles (491.5)

KFRC	ck	1000	C (5)	San Francisco, Calif., Don Lee Brdcastg. Sys., 1000 Van Ness Ave.
WDAF	ak	1000	R (5)	Kansas City, Mo., Kansas City Star, 1729 Grand Ave.
WIP	ae	1000	.....	Philadelphia, Pa., Penn. Brdcastg. Co., Gimbel Bldg.
WJAY	ae	500	D	Cleveland, Ohio, Cleve. Brdcastg. Corp., 1224 Huron Road
XXFX	ak	1000	.....	Mexico City, D. F., Secretaria de Educacion Publica

620 kilocycles (483.6)

KGW	ak	1000	N (5)	Portland, Ore., Oregonian Pub. Co., 325 Adler St.
KTAR	ae	1000	N	Phoenix, Ariz., KTAR Brdcastg. Co., Heard Bldg.
WFLA	ae	1000	Na (5)	Clearwater, Fla., Chamber of Commerce, Box 119
WHJB	ak	250	D	Greensburg, Pa., Pittsburgh Radio Supply, 128 Pa. Ave.
WLBS	ak	500	C (1)	Bangor, Maine, Maine Brdcastg. Co., 100 Main St.
WSUN	ae	1000	Na (5)	St. Petersburg, Fla., Chamber of Commerce, Recreation Pier
WTMJ	ae	1000	N (5)	Milwaukee, Wis., The Journal Co., 333 W. State St.

630 kilocycles (475.9)

CFCO	ak	100	F	Chatham, Ont., John Beardall, Wm. Pitt Hotel
CFCY	ae	1000	F	Charlottetown, P. E. I., Island Radio Co., 143 Great George St.
CJGX	ae	500	F	Yorkton, Sask., 188 Grain Exchange Bldg., Winnipeg, Man.
CKOV	ak	100	F	Kelowna, B. C., Okanagan Broadcasters, Box 243
KFRU	ak	500	I (1)	Columbia, Mo., KFRU Inc., 9th & Elm Sts.
KGFX	ak	200	D	Pierre, S. D., Dana McNeil, Box 573
WGFB	ak	500	I	Evansville, Ind., Evansville on the Air, Inc., 519 Vine St.
WMAL	ak	250	B (5)	Washington, D. C., NBC., 712 11th St., N. W.
WOS	ak	500	1D	Jefferson City, Mo., State Highway Control, Capitol Bldg.
WPRO	ak	250	.....	Providence, R. I., Cherry & Webb Brdcastg. Co., 15 Chestnut
XEZ	z	500	.....	Merida, Yuc., Jorge L. Falomeque, Estamores Ctd. 214

640 kilocycles (468.5)

CMBY	z	150	.....	Havana, Cuba, Callejas y Estefany, Calle Infanta 132
KFI	ah	50000	N	Los Angeles, Calif., Earle G. Anthony, Inc., 1000 S. Hope St.
WAIU	ae	500	.....	Columbus, Ohio, Associated Radiocasting, Deshler-Wallick
WOI	ae	5000	D	Ames, Iowa, Iowa State College
XEOX	ak	500	.....	Saltillo, Coah., Antonio Garza C., Victoria 4 (altos)

650 kilocycles (461.3)

RDN	z	500	.....	San Salvador, E. S., Republic of El Salvador
WSM	ae	50000	N	Nashville, Tenn., Nat'l. Life & Accident, 301 7th St.

660 kilocycles (454.3)

CMCX	z	150	.....	Havana, Cuba, Calle Maceo 7, Guanabacoa, Havana
WAAW	ak	500	D	Omaha, Neb., Omaha Grain Exchange
WEAF	ak	50000	R	New York, N. Y., NBC., 30 Rockefeller Plaza

670 kilocycles (447.5)

WMIAQ	ak	50000	N	Chicago, Ill., NBC., Inc., Merchandise Mart.
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680 kilocycles (440.9)

CMCO	z	250	Havana, Cuba, Calle Vista Alegre 80, Vibora, Havana
KFEQ	ak	2500	D	St. Joseph, Mo., KFEQ Inc., Schneider Bldg.
KPO	ak	50000	N	San Francisco, Calif., NBC, Inc., 111 Sutter St.
VAS	akn	2000	685	Glace Bay, N. S., Canadian Marconi Co., Ltd.
VOWR	ck	500	681	St. John's Nfld., Wesley United Church, Box 157
WPTF	ae	5000	DnN	Raleigh, N. C., WPTF Radio Co., 324 Fayetteville St.

690 kilocycles (434.5)

CFRB	ak	10000	C	Toronto, Ont., Rogers-Majestic Corp., 37 Bloor St.
CJ CJ	aj	100	F	Calgary, Alta., Albertan Pub. Co., New Albertan Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

NAA akn 1000 Arlington, Va., United States Navy
 XET ak 500 Monterrey, N. L., P. O. Box 203, Hidalgo

700 kilocycles (428.3)

WLW ak 50000 N Cincinnati, Ohio, Crosley Radio Corp., 1329 Arlington St.

710 kilocycles (422.3)

KIRO ae 500 Seattle, Wash., Tower Bldg.
 KMPC ak 500 Beverly Hills, Calif., Bev. Hills Brdcastg. Corp., 9631 Wiltshire
 WOR ak 50000 Newark, N. J., Bamberger Brdcastg. Serv., 147 Market St.
 XEN ak 1000 Mexico City, D. F., Cerveceria Modelo Ave., Juarez 77

720 kilocycles (416.4)

WGN ak 50000 Chicago, Ill., WGN, Inc., 435 N. Michigan Ave.

730 kilocycles (410.7)

CFPL ak 100 F London, Ont., London Free Press, Richmond St.
 CJCA ah 1000 F Edmonton, Alta., Edmonton Journal, 10122-100 A St.
 CKAC ck 5000 C Montreal, Que., La Presse Pub. Co., 980 St. Catherine St.

740 kilocycles (405.2)

KMMJ ae 1000 D Clay Center, Neb., The M. M. Johnson Co.
 KTRB ak 250 D Modesto, Calif., McTammany & Bates, P. O. Box 405
 WHEB ak 250 D Portsmouth, N. H., Granite State Brdcastg. Corp., Box 522
 WSB ah 50000 N Atlanta, Ga., Atlanta Journal, 7 No. Forsyth St.

750 kilocycles (399.8)

CMCW dk 150 Havana, Cuba, Calle San Lazaro Ile, Havana
 KGU aj 2500 N Honolulu, T. H., Advertiser Pub. Co., Kapiolani & South St.
 WJR ak 50000 C Detroit, Mich., WJR, Inc., Fisher Bldg.
 XEAM z 7.5 Matamoros, Tams., Edificio Banco Longoria

760 kilocycles (394.5)

CMHX ak 500 (.15) Cienfuegos, Cuba, F. Chavarry, P. O. Box 205
 KXA ae 250 (.5) Seattle, Wash., American Radio Tel. Co., 312 Bigelow Bldg.
 WBAL ae 10000 BSy Baltimore, Md., Amer. Radio News Corp., Lexington Bldg.
 WEW ae 1000 D St. Louis, Mo., St. Louis University, 221 N. Grand Blvd.
 WJZ ak 50000 BSy New York, N. Y., NBC, Inc., 30 Rockefeller Plaza
 XEOK z 250 Tijuana, L. C., Carlos de la Sierra, Calle 5a, 312

770 kilocycles (389.4)

CMBS ak 150 Havana, Cuba, Calzada y "H" St., Vedado, Habana
 KFAB ae 10000 CSy Lincoln, Neb., KFAB Brdcastg. Co., Cornhusker Hotel
 WBBM ae 50000 CSy Chicago, Ill., WBBM Brdcastg. Corp., 410 N. Michigan Ave.

780 kilocycles (384.4)

CHWK dk 100 F Chilliwack, B. C., Chilliwack Brdcastg. Co., Box 452
 CKSO ak 1000 F Sudbury, Ont., W. E. Mason, Grand Theatre Bldg.
 CMJK ak 250 Camaguey, Cuba, Cia. Nacional de Radio, Finlay No. 3
 KELW ak 500 2 Burbank, Calif., Magnolia Park Ltd., 3702 Mag. Park Blvd.
 KFDY ae 1000 D Brookings, S. D., S. Dak. State College, Box L
 KFOQ ck 250 Anchorage, Alaska, Anchorage Radio Club, 411 Fourth Ave.
 KGHL ak 1000 N (2.5) Billings, Mont., Northwestern Auto Supply, 5th & Broadway
 KTM ak 500 2 (1) Los Angeles, Calif., 214 So. Vermont St.
 WEAN ae 500 C Providence, R. I., Shepard Brdcastg. Serv., New Crown Hotel
 WMC ak 1000 N (5) Memphis, Tenn., WMC Inc., Hotel Gayoso
 WTAR ae 500 N (1) Norfolk, Va., WTAR Radio Corp., Bank of Com. Bldg.
 XEYZ z 10000 Mexico City, D. F., Angel M. Diez, Avenida Juarez 48

790 kilocycles (379.5)

CMOA z 150 Havana, Cuba, Juan Fernandez, Aguilar 126 altes.
 KGO ak 7500 N San Francisco, Calif., NBC, 111 Sutter St.
 WGY ak 50000 R Schenectady, N. Y., General Electric Co., 1 River Road

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

800 kilocycles (374.8)

HIX	ak	700	....	Santo Domingo, D. R., J. R. Saladin, Director General
WBAP	ak	50000	Na	Fort Worth, Tex., Ft. Worth Star-Telegram
WFAA	ak	50000	Na	Dallas, Tex., A. H. Belo Corp., Baker Hotel
WTBO	ak	250	D	Cumberland, Md., Associated Brdcstg. Corp., Box 794

810 kilocycles (370.2)

CMCF	ak	250	815	Havana, Cuba, Cuban Brdcstg. Co., Paseo de Marti No. 9
CMHW	ak	100	....	Cienfuegos, Cuba, Ramon Gonzales, Box 226
WCCO	ae	50000	C	Minneapolis, Minn., Northwestern Brdcstg. Co., Nicollet Hotel
WNYC	ak	1000	D	New York, N. Y., City of N. Y., Centre & Duane Sts.
XFC	z	350	....	Aguascalientes, Ags., Gobierno del Estado de Aguascalientes

820 kilocycles (365.6)

WHAS	aj	50000	C	Louisville, Ky., Courier-Journal, 300 W. Liberty St.
XETW	dk	500	....	Mexico City, D. F., Rafael M. Pena, Avenida 16 de Sept.. 83

830 kilocycles (361.2)

KOA	ak	50000	N	Denver, Colo., General Electric Co., 1370 Krameria St.
WEU	ak	1000	D	Reading, Pa., Berks Brdcstg. Co., 533 Pennsylvania
WHDH	ae	1000	Dn	Boston, Mass., Matheson Radio Co., 62 Boylston
WRUF	ae	5000	Dn	Gainesville, Fla., University of Florida

840 kilocycles (356.9)

CFQC	ak	1000	F	Saskatoon, Sask., Electric Shop Ltd., 216 First Ave., No.
CMO	ak	500	....	Havana, Cuba, 25 Numero 445, Vedado, Havana
CRCT	ak	5000	FN	Toronto, Ont., C. R. B. C., 805 Davenport Road
WQGY	ak	400	....	St. John's, Nfld., Newfoundland Hotel
XEP	z	500	....	Mexico City, D. F., Cia. Difusora de Mexico, S. A., Rembrandt 11
XERA	ck	250000	....	Villa Acuna, Coah., Brinkley Hospital (Del Rio, Tex.)

850 kilocycles (352.7)

KIEV	ak	100	D	Glendale, Calif., Cannon System, Ltd., Glendale Hotel
TIEP	z	500	....	San Jose, C. R., Eduardo Pinto H., Apartado 257
WESG	ak	1000	C	Elmira, N. Y., Cornell University, Mark Twain Hotel
WKAR	ae	1000	D	East Lansing, Mich., Michigan State College
WWL	ae	10000	C	New Orleans, La., Loyola Univ., Roosevelt Hotel
XEFE	z	250	....	Nuevo Laredo, T., R. T. Carranza, Km. 4 Carretera Laredo Mt.

860 kilocycles (348.6)

WABC	ak	50000	C	New York, N. Y., Atlantic Brdcstg. Corp., 485 Madison Ave.
WHB	ak	1000	D	Kansas City, Mo., WHB Brdcstg. Co., Scarritt Bldg.
XEMO	ak	5000	....	Tijuana, L. C., P. O. Box 202, San Diego, Calif.

870 kilocycles (344.6)

WENR	ak	50000	Na	Chicago, Ill., NBC., Inc., Merchandise Mart.
WLS	ae	50000	Na	Chicago, Ill., Agricultural Brdcstg., 1230 Washington Bl.

880 kilocycles (340.7)

CFJC	ak	100	F	Kamloops, B. C., Review Pub. Co., Wilcox-Hall Bldg.
CMBN	z	150	....	Havana, Cuba, Calle Pozos Dulces 3, Rpt. Ensanche
CRCO	ak	1000	F	Ottawa, Ont., C. R. B. C., Chateau Laurier Hotel
KFKA	ak	5000	2 (1)	Greeley, Colo., Mid-Western Radio Corp., Box 735
KLX	ae	1000	....	Oakland, Calif., Tribune Tower
KPOF	ae	500	2	Denver, Colo., Pillar of Fire, 1845 Champa St.
WQOC	ae	500	(1)	Meridian, Miss., Miss. Brdcstg. Co., Box 603
WGBI	ae	500	1	Scranton, Pa., Scranton Brdcsters, Inc., 1000 Wyoming Ave.
WPIR	ak	500	D	Petersburg, Va., WLBG Inc., Medical Arts Bldg.
WQAM	ae	250	1	Scranton, Pa., Scranton Times, 149 Penn Ave.
WSUI	ae	500	(1)	Iowa City, Iowa, State University of Iowa

890 kilocycles (336.9)

KARK	ak	250	(.5)	Little Rock, Ark., Ark. Radio & Equip. Co., N.S.L. Bldg.
KFNF	ak	500	2 (1)	Shenandoah, Iowa, Henry Field Co., 407 Sycamore St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFPY	ak	1000	C	Spokane, Wash., Symons Brdcastg. Co., Symons Bldg.
KUSD	ae	500	2	Vermillion, S. D., University of South Dakota
WBAA	ak	1000	D	W. Lafayette, Ind., Purdue University
WGST	ak	500	C (1)	Atlanta, Ga., Ga. School of Technology, Ansley Hotel
WILL	ak	250	2 (1)	Urbana, Ill., University of Illinois
WJAR	ae	500	R	Providence, R. I., Outlet Co., Weybossett St.
WMMN	ak	500	(1)	Fairmount, W. Va., W. Va. Brdcastg. Corp., 208 Main St.
XEW	ak	50000	...	Mexico City, D. F., Cadena Radiodifusora Mexicana, Box 2516

900 kilocycles (333.1)

KGBU	ak	500	...	Ketchikan, Alaska, Alaska Radio & Serv. Co., Mile 5, Wards Cove
KHJ	ae	1000	C (5)	Los Angeles, Calif., Don Lee System, 7th & Bixel Sts.
KSEI	ck	250	(5)	Pocatello, Idaho, Radio Service Corp., 141 So. 6th St.
WBEN	ak	1000	R	Buffalo, N. Y., WBEN Inc., Hotel Statler
WFLI	z	500	D	New Haven, Conn., Patrick J. Goode
WFMD	ah	500	DP	Frederick, Md., Francis Scott Key Hotel
WJAX	aeH	1000	N (5)	Jacksonville, Fla., City of Jacksonville
WKY	ae	1000	N	Oklahoma City, Okla., WKY Radiophone Co., Plaza Court Bldg.
WLBL	ak	2500	D	Stevens Point, Wis., State of Wis., Fox Theater Bldg.
WTAD	ak	500	D	Quincy, Ill., Ill. Brdcastg. Corp., State & 6th.

910 kilocycles (329.6)

GJAT	ak	250	F	Trail, B. C., Kootenay Brdcastg. Co., Box 1959
GRCM	ak	5000	F	Montreal, Que., C. R. B. C., 1231 St. Catherines St. W.
XENT	ak	65000	...	Nuevo Laredo, Tams., P. O. Box 410, Laredo, Texas

920 kilocycles (325.9)

CMX	ae	650	...	Havana, Cuba, Francisco Lavin, Calle Obrapia y Oficis
HKK	ae	1000	...	Port-au-Prince, Haiti, Haitian Government
KFEL	ak	500	a	Denver, Colo., Eugene P. O'Fallon, Inc., Albany Hotel
KOMO	ak	1000	N (5)	Seattle, Wash., Fishers Blend Station, Inc., Skinner Bldg.
KPRC	ak	1000	N (5)	Houston, Texas, Houston Prtg. Co., Lamar Hotel
KVOD	ak	500	a	Denver, Colo., Colo. Radio Corp., Continental Oil Bldg.
WAAP	ak	1000	D	Chicago, Ill., Drivers Journal Pub. Co., Palmer House
WBOS	ae	500	D	Babson Park, Mass., Brdcastg. Serv. Org., Drawer B
WFEN	ak	250	(5) 1	Philadelphia, Pa., Wm. Penn Brdcastg. Co., 22nd & Walnut Sts.
WRAX	ak	250	1 (5)	Philadelphia, Pa., WRAX Brdcastg. Co., 217 So. Broad St.
WSPA	ae	1000	D	Spartanburg, S. C., Virgil V. Evans, Ravenel & Avant Sts.
WVJ	ak	1000	R (5)	Detroit, Mich., Evening News Assn., 616 Lafayette Blvd.
XEAA	ak	200	...	Mexicali, L. C., P. O. Box 714, Calexico, Calif.

930 kilocycles (322.4)

GFAC	ak	100	F	Calgary, Alta., T. P. & C. Brdcastg. Co., Southam Bldg.
GFCH	ak	100	F	North Bay, Ont., Roy H. Thomson, Capitol Theatre Bldg.
GFCL	ae	100	...	Prescott, Ont., Radio Assn. of Prescott, 307 George St.
CHNS	ae	1000	F	Halifax, N. S., Maritime Brdcastg. Co., Lord Nelson Hotel
CKPC	ae	100	F	Brantford, Ont., Telephone City Brdcastg. Ltd., Arcade Bldg.
CKPR	ak	100	F	Fort William, Ont., Dougall Motor Co., Royal Edward Hotel
KGBZ	ak	1000	2 (2.5)	York, Neb., KGBZ Brdcastg. Co., 719 Grant Ave.
KMA	ak	1000	2 (2.5)	Shenandoah, Iowa, Earl E. May Seed and Nursery Co.
KROW	ak	500	(1)	Oakland, Calif., Educational Brdcastg. Corp., 1803 Franklin
TIRII	z	50	...	San Jose, C. R.
WBRC	ak	1000	C	Birmingham, Ala., Birmingham Brdcastg. Co., Bankhead Hotel
WDBJ	ae	1000	C	Roanoke, Va., Times World Corp., P. O. Box 150

940 kilocycles (319.0)

CMBC	dj	500	...	Havana, Cuba, Domingo Fernandez, Monte No. 139
KOIN	ak	1000	C (5)	Portland, Ore., KOIN Inc., New Heathman Hotel
VOAS	ak	100	...	St. John's Nfld., Ayre & Sons, Ltd., Water St.
WAAI	ae	500	D	Jersey City, N. J., Bremer Brdcastg. Corp., 50 Journal Sq.
WAVE	bk	1000	N	Louisville, Ky., WAVE, Inc., 1525 Brown Hotel
WCSH	ae	1000	R (2.5)	Portland, Maine, Congress Square Hotel Co.
WDAY	ae	1000	N (5)	Fargo, N. D., WDAY, Inc., Black Bldg., 118 Broadway
WHA	ak	1000	D (5)	Madison, Wis., University of Wis., Radio Hall
XEFO	ak	5000	(XF0)	Mexico City, D. F., Reforma No. 137

950 kilocycles (315.6)

GRCS	ak	100	F	Chicoutimi, Que., C. R. B. C., 4 Rue Larouche
KFWB	ak	1000	(5)	Hollywood, Calif., Warner Bros., Motion Pictures, Inc.
KHSL	ak	250	D	Chico, Calif., Golden Empire Brdcastg. Co.
KMBC	ae	1000	C (5)	Kansas City, Mo., Midland Brdcastg. Co., Pickwick Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WRC ak 500 R (1) Washington, D. C., NBC, Inc., National Press Bldg.
 YNVA z 30 Managua, Nic.

960 kilocycles (312.3)

CKY ak 15000 F Winnipeg, Man., Manitoba Telephone System, Sherbrooke St.
 CMCD ak 250 Havana, Cuba., Calle "G" y 25, Vedado, Havana
 XEAW ck 50000 Reynosa, Tams., Cla. Int. Difusora Reynosa, Aptdo. 6

970 kilocycles (309.1)

KJR ak 5000 N Seattle, Wash., Fishers Blent Station, Skinner Bldg.
 WCFL ae 5000 B Chicago, Ill., Chi. Fed. of Labor, 666 Lake Shore Drive
 WIBG ak 100 D Glenside, Pa., Seaboard Radio Brdcstg. Corp.

980 kilocycles (303.9)

KDKA ae 50000 B Pittsburgh, Pa., Westinghouse Elec. Co., Grant Bldg.

990 kilocycles (302.8)

WBZ ak 50000 BSy Boston, Mass., Westinghouse Elec. Co., Hotel Bradford
 WBZA ak 1000 BSy Springfield, Mass., Westinghouse Elec. Co., Hotel Kimball
 XEAF ak 500 Nogales, Sonora, Fransisco G. Elias, Hotel Central
 XEK ak 100 Mexico City, D. F., Arturo Martinez, Jalapa No. 51
 XES dk 250 Tampico, Tams., Fernando Sada, Box 309

1000 kilocycles (299.8)

CMBZ ak 250 Havana, Cuba, Manuel y G. Salas, San Rafael No. 14
 KFVD ak 250 Dn Los Angeles, Calif., E. L. Cord, 645 S. Mariposa
 TIGH z 500 San Jose, C. R.
 WHO ak 50000 R Des Moines, Iowa, Central Brdcstg. Co., 914 Walnut St.
 XEY z 10 Merida, Yuc., Ramon Rubio, Calle 64, No. 568

1010 kilocycles (296.9)

CHML ak 100 F Hamilton, Ont., Maple Leaf Radio Co., Pigott Bldg.
 CHWC ak 500 3F Regina, Sask., R. H. Williams & Sons, Kitchener Hotel
 CKCD ak 100 Vancouver, B. C., Van. Daily Province, 142 Hastings St. W.
 CKCK ak 500 3F Regina, Sask., Leader-Post Ltd., 1853 Hamilton St.
 CKCO ak 100 F Ottawa, Ont., Dr. Geldert, 272 Somerset St. W.
 CKIC ak 50 Wolfville, N. S., Acadia University
 CKWX ak 100 F Vancouver, B. C., Western Brdcstg. Co., Hotel Georgia
 CMJA ak 300 Camaguey, Cuba, Rafael Valdes, P. O. Box 64
 KGGF ak 1000 2 Coffeyville, Kans., Powell & Platz, Coffeyville Journal Bldg.
 KOW ak 1000 San Jose, Calif., 87 E. San Antonio St.
 TIGA z 30 1014 Cartago, C. R.
 WHN ae 1000 (5) New York, N. Y., Marcus Loew Agency, 1540 Broadway
 WIS ae 500 N (1) Columbia, S. C., Station WIS, Inc., Box 635
 WNAD ae 1000 2 (1) Norman, Okla., University of Oklahoma
 XEU ak 250 Veracruz, Ver., Fernandez Pazos S., Independencia 98

1020 kilocycles (293.9)

KYW ak 10000 R Philadelphia, Pa., Westinghouse Elec. Co., 1622 Chestnut St.
 XEJ ak 1000 Juarez, Chih., Juan G. Buttner, P. O. Box 111

1030 kilocycles (291.1)

CFCN ak 10000 Calgary, Alta., Grant & Love, Toronto Gen. Trust Bldg.
 CKLW ag 5000 Windsor, Ont., West. Ont. Brdcstg. Co., Guaranty Trust Bldg.
 CMCY ak 1000 Havana, Cuba, Manuel D. Outran, Calle "G" 215, Vedado
 XEB ak 10000 Mexico City, D. F., El Buen Tono, S. A., Aptdo. 79-44

1040 kilocycles (288.3)

KRLD ae 10000 C Dallas, Texas, KRLD Radio Corp., Adolphus Hotel
 KWJJ ak 500 Portland, Ore., KWJJ Brdcstg. Co., 622 Salmon St.
 WTIC ah 50000 Hartford, Conn., Travelers Brdcstg. Co., 26 Grove St.

1050 kilocycles (285.5)

QMKD ak 250 Santiago, Cuba, Radioemisora Oriental, Box 23

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CRCK	ak	1000	F	Quebec, Que., C. R. B. C., Chateau Frontenac Hotel
KFBI	ak	5000	Dn	Abilene, Kans., Farmers and Bankers Life, Box 345
KNX	ak	50000	....	Hollywood, Calif., West. Brdcastg. Co., 1558 N. Vine St.
TIFA	z	75	....	San Jose, C. R.

1060 kilocycles (282.8)

CMK	ae	250	....	Havana, Cuba, Cia. Nacional de Radio, Hotel Plaza
KTHS	ak	10000	N	Hot Springs, Ark., Chamber of Commerce, Box 86
VOAC	z	40	1065	St. John's, Nfld., Amer. Radio News Corp., Lexington Bldg.
WBAL	ak	10000	B	Baltimore, Md., Norfolk Daily News
WJAG	ak	1000	D	Norfolk, Neb., Edificio Assad., Pedro Loza 28
XEA	ak	500	....	Guadalajara, Jal., Alberto Palos Sauza, Juan Manuel 383

1070 kilocycles (280.2)

CMHA	z	50	....	Sagua la Grande, C., Abelardo Menocal, Carrillo No. 31
KJBS	ak	500	Dn	San Francisco, Calif., Julius Brunton & Sons, 1380 Bush St.
WCAZ	ak	100	D	Carthage, Ill., Superior Brdcastg. Serv., 97 1/2 Adams
WDZ	ak	100	D	Tuscola, Ill., James L. Bush, Star Store Bldg.
WTAM	ak	50000	R	Cleveland, Ohio, NBC, Inc., 1367 E. 6th St.

1080 kilocycles (277.6)

WBT	ak	50000	C	Charlotte, N. C., Station WBT, Inc., Wilder Bldg.
WCBD	ak	5000	1Dn	Waukegan, Ill., WCBD, Inc., Karcher Hotel
WMBI	ak	5000	1Dn	Chicago, Ill., Moody Bible Institute, 153 Inst. Place
XEMA	z	50	....	Tampico, Tams., Manuel M. Pier, Aretanos 10

1090 kilocycles (275.1)

KMOX	ak	50000	C	St. Louis, Mo., Voice of St. Louis, 401 S. 12th St.
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1100 kilocycles (272.6)

CRCV	ak	500	F	Vancouver, B. C., C. R. B. C., 1150 Main St.
KGDM	ak	1000	D	Stockton, Calif., E. F. Pepper, 42 S. California St.
KWKH	ae	10000	C	Shreveport, La., Times Pub. Co., Spring & Fannin Sts.
LWL	ae	5000	1	New York, N. Y., 415 W. 59th St.
WPG	ak	5000	1C	Atlantic City, N. J., City of Atlantic City, Convention Hall
XEL	z	250	....	Mexico City, D. F., Calzada del Rosel, No. 1

1110 kilocycles (270.1)

CMCO	ak	250	....	Havana, Cuba, Enrique Lasanta, Calle Oficios 116
KSQO	ak	2500	Dn	Sioux Falls, S. D., Sioux Falls Brdcastg. Co., Carpenter Hotel
WRVA	ae	5000	N	Richmond, Va., Larus & Bros. Co., 22nd & Gary Sts.
XELO	z	10000	....	Piedras Negras, Co., Piedras Negras Brdcastg. Co., Madero 53

1120 kilocycles (267.7)

CHLP	ak	100	F	Montreal, Que., La Patrie Pub. Co., Sun Life Bldg.
CHSJ	ae	500	F (1)	St. John, N. B., N. B. Brdcastg. Co., Admiral Beatty Hotel
CKOC	ae	500	F (1)	Hamilton, Ont., Westworth Brdcastg. Co., Wentworth Bldg.
CKX	ak	100	F	Brandon, Man., Man. Tele. System, City Hall Square
CMGF	dk	100	....	Matanzas, Cuba, Calle Grnl. Betancourt No. 51
CMKM	ak	200	....	Manzanillo, Cuba, Merchan P. Figeredo, P. O. Box 4
KFIO	ae	100	D	Spokane, Wash., Spokane Brdcastg. Corp., Ziegler Bldg.
KFSG	ag	500	a (1)	Los Angeles, Calif., Echo Park Assn., 1100 Glendale Blvd.
KRKC	aj	500	a (1)	Los Angeles, Calif., Radio Brdcasters, Inc., 815 Spring Arcade
KRSC	ak	100	D	Seattle, Wash., Radio Sales Corp., Washington Athletic Club
WCOP	ak	500	D	Boston, Mass., Joseph M. Kirby, Hotel Copley-Plaza
WDEL	ak	250	(5)	Wilmington, Del., WDEL, Inc., 10th & King Sts.
WISN	ak	250	(1)	Milwaukee, Wis., Hearst Radio, Inc., 123 W. Michigan St.
WTAW	ae	500	....	College Station, Tex., Agricultural & Mechanical College

1130 kilocycles (265.3)

CMJI	ak	50	....	Ciego de Avila, Cuba, Gilberto Gesse Lopez, Independencia 95
KSL	ak	50000	C	Salt Lake City, Utah, Radio Serv. Corp., Vermont Bldg.
WJJD	ak	20000	Dn	Chicago, Ill., WJJD, Inc., 201 N. Wells St.
WOV	ag	1000	D	New York, N. Y., Internat'l. Brdcastg. Co., 132 W. 43rd St.

1140 kilocycles (263.0)

CMBG	z	200	Havana, Cuba, John L. Stowers, Hospital No. 100
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KVOO ak 25000 1N Tulsa, Okla., Southwestern Sales Corp., Wright Bldg.
WAPI ae 5000 1N Birmingham, Ala., WAPI Brdctg. Corp., Protective Life Bldg.

1150 kilocycles (260.7)

CMJF z 200 Camaguey, Cuba, John L. Stowers, Republica No. 88
WHAM ae 50000 B Rochester, N. Y., Stromberg-Carlson, 100 Carlson Road
XED ak 2500 1155 Guadalajara, Jal., Cia. Radiofonomografica, Aptdo. 197
XEFL z 500 Tijuana, L. C., P. O. Box 6, San Diego, Calif.
XEH ak 250 Monterrey, N. L., Tarnava y Cia., P. O. Box 147
XEWZ ak 100 Mexico City, D. F., Jesus Valezzi E., P. O. Box 291

1160 kilocycles (258.5)

CMHJ z 100 Cienfuegos, Cuba, Romualdo Ugalde, Sta. Elena 184
WOWO ae 10000 1C Fort Wayne, Ind., Main Auto Supply Co., 213 W. Main St.
WWVA ak 5000 1C Wheeling, W. Va., W. Va. Brdctg. Corp., Hawley Bldg.
XEAS z 100 Saltillo, Coah., "La Voz del Comercio en Saltillo"
XEC z 30 Tijuana, L. C., Luis F. Encisco, Teatro Zaragoza

1170 kilocycles (256.3)

CMBD z 150 Havana, Cuba, Luis Perez Garcia, Calle 17, 3, Vedado
WCAU ae 50000 C Philadelphia, Pa., WCAU Brdctg. Corp., 1622 Chestnut St.

1180 kilocycles (254.1)

CMJO ak 50 Ciego de Avila, Cuba, B. Ildefonso, Calle Maceo y C. Central
KEX ak 5000 2N Portland, Ore., Oregonian Pub. Co., Oregonian Bldg.
KOB ak 10000 2 Albuquerque, N. M., Albuquerque Journal, Box 1319
VE9EK ak 10 1185 Montmagny, Que., J. A. Marquis, Box 52
WDGY ak 1000 Dn (5) Minneapolis, Minn., Dr. Geo. W. Young, 909 W. Broadway
WINS ak 1000 New York, N. Y., Hearst Radio Inc., 114 E. 58th St.
WMAZ ak 1000 Macon, Ga., Southeastern Brdctg., 211 Cotton Ave.
XEFA z 500 Mexico City, D. F., Eduardo Limon S., Mediterraneo 236

1190 kilocycles (252.0)

CMKV z 50 Santiago, Cuba, Oscar Vidal, Palma Soriano
HIJ z 15 1195 Santo Domingo, D. R., Tuto Baez, Hostos 34
VONF ak 500 1195 St. John's, Nfld., Dominion Brdctg. Co., Ltd., Box 135
WATR ak 100 D Waterbury, Conn., WATR Co., Inc., 47 Grand St.
WOAI ak 50000 N San Antonio, Tex., Southland Industries Inc., 1038 Navarro
WSAZ ak 1000 Huntington, W. Va., WSAZ, Inc., P. O. Box 729

1200 kilocycles (249.9)

CHAB ak 100 F Moose Jaw, Sask., CHAB, Ltd., P. O. Box 26
CKNX ak 50 Wingham, Ont., Wingham Radio Club, Box 65
CKTB ae 100 F St. Catherine's, Ont., E. T. Sandell, Welland House
CMCJ ak 350 Havana, Cuba, Rafael Rodriguez, Estevez No. 4
KADA ak 100 D Ada, Okla., C. C. Morris
KBTM ak 100 D Jonesboro, Ark., Jay P. Beard
KFJB ak 100 (.25) Marshalltown, Iowa, Marshall Elec. Co., Inc., 1603 W. Main St.
KFXD ae 100 (.25) Nampa, Idaho, Frank E. Hurt, 1024 Twelfth Ave., S.
KFXJ ak 100 (.25) Grand Junction, Colo., Western Slope Brdctg. Co., Hillcrest Mnr.
KGDE ak 100 (.25) Fergus Falls, Minn., C. L. Jaren
KGEK ak 100 Sterling, Colo., Elmer G. Beecher, 109 W. 2nd St.
KGFJ ae 100 Los Angeles, Calif., Ben S. McGlashan, 1417 S. Figueroa
KGHI ak 100 (.25) Little Rock, Ark., Arkansas Brdctg. Co., Marion Hotel
KMLB ak 100 Monroe, La., Liners Brdctg. Station, Francis Hotel
KSUN ak 100 Lowell, Ariz., Copper Electrical Co., Drawer C
KVOS dk 100 Bellingham, Wash., KVOS, Inc., 115 W. Magnolia St.
KWG ak 100 C Stockton, Calif., Medico-Dental Bldg.
WABI ak 100 Bangor, Maine, Community Brdctg. Service
WAIM ak 100 Anderson, S. C., Anderson College
WBBZ ak 100 Ponca City, Okla., C. L. Carrell, 407 W. South Ave.
WBNO ak 100 1 New Orleans, La., Coliseum Baptist Church, Hotel N. O.
WCAT ak 100 D Rapid City, S. D., South Dakota State School of Mines
WCAX ak 100 Burlington, Vt., Burlington Daily News, 203 College St.
WCLO ak 100 Janesville, Wis., Gazette Prtg. Co., 200 E. Milwaukee St.
WCPO ak 100 (.25) Cincinnati, Ohio, Continental Radio Co., Hotel Sinton
WEST ae 100 3 (.25) Easton, Pa., Lancaster Brdctg. Serv.
WFAM ak 100 8 South Bend, Ind., South Bend Tribune, 225 W. Colfax Ave.
WHBC ak 100 (.25) Canton, Ohio, Edw. P. Graham, 319 Tusc. St., W.
WHBY ak 100 (.25) Green Bay, Wis., WHBY, Inc., Bellin Bldg.
WIBX aej 100 (.3) C Utica, N. Y., WIBX, Inc., First Nat'l Bank Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WIL	ak	100	(.25)	St. Louis, Mo., Missouri Brdcastg. Corp., Melbourne Hotel
WJBC	ak	100	6	Bloomington, Ill., Kaskaskia Broadcasting Co.
WJBL	ak	100	6	Decatur, Ill., Commodore Brdcastg. Co., Gushard Bldg.
WJWB	ak	100	1	New Orleans, La., C. C. Carlson, Godchaux Bldg.
WKBO	ak	100	3 (.25)	Harrisburg, Pa., Keystone Brdcastg. Corp., Penn Harris Hotel
WLVA	ak	100	(.25)	Lynchburg, Va., Lynchburg Brdcastg. Corp., 915 Main St.
WMFR	ae	100	PD	High Point, N. C., Hart & Nelson
WMPC	ak	100	(.25)	Lapeer, Mich., 1st Methodist Church, 81 Liberty St.
WNRI	ak	100	(.25)	Newport, R. I., S. Geo. Webb, 21 Bull St.
WRBL	ak	100	.....	Columbus, Ga., WBL, Inc., Royal Theater Bldg.
WWAE	ae	100	8	Hammond, Ind., Hammond-Calumet Brdcastg. Corp.
.....	z	100	P	West Palm Beach, Fla., Hazlewood, Inc.

1210 kilocycles (247.8)

CJCS	z	50	.....	Stratford, Ont., M. I. Higgins, 151 Ontario St.
CJCU	z	50	.....	Aklavik, N. W. T., Dr. J. A. Urquhart, Dept. of Interior
CKBI	ak	100	F	Prince Albert, Sask., Prince Albert Radio Club, Canada Bldg.
CKCH	ak	100	F	Hull, Que., CKCH Brdcastg. Co., Standish Hall Hotel
CKMC	ak	50	.....	Cobalt, Ont., R. L. MacAdam
CMHI	ak	150	.....	Santa Clara, Cuba, Lavis y Oaz, Independencia No. 34
KASA	ck	100	.....	Elk City, Okla., E. M. Woody, Casa Grande Hotel
KDLR	ak	100	.....	Devis Lake, N. D., KDLR, Inc., 1025 Third St.
KDON	z	100	.....	Del Monte, Calif., Richard F. Lewis, 498 Washington St.
KFJI	ak	100	.....	Klamath Falls, Ore., KFJI Brdcasters, Inc., Willard Hotel
KFOR	ae	100	(.25) C	Lincoln, Neb., Howard Shuman, Hotel Lincoln
KFPW	ak	100	.....	Fort Smith, Ark., Southwestern Hotel Co., Goldman Hotel
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo., Oscar C. Hirsch, Box 275
KFXM	ak	100	9	San Bernardino, Cal., Lee Bros. Brdcastg. Co., California Hotel
KGY	ak	100	.....	Olympia, Wash., KGY, Inc., 11th and Capitol Way
KIUL	ak	100	.....	Garden City, Kans., Garden City Brdcastg. Co.
KPPC	ak	50	9	Pasadena, Calif., Pasadena Presb. Church, 585 E. Colorado
KVSO	ak	100	D	Ardmore, Okla., Ardmoreite Publishing Co., Inc.
KWTN	ak	100	.....	Watertown, S. D., Citizen's Bank Bldg.
TGW	ak	10000	.....	Guatemala City, Ministerio de Fomento
WALR	ak	100	.....	Zanesville, Ohio, WALR Brdcastg. Corp., 1st Trust & Bank Bldg.
WBAX	ae	100	.....	Wilkes Barre, Pa., John A. Stenger, Jr., 70 S. Main St.
WBBL	ak	100	S	Richmond, Va., Grace Presb. Church, 1627 Monument Ave.
WBRB	ak	100	3	Red Bank, N. J., Monmouth Brdcastg. Corp., 63 Broad St.
WCOL	ak	100	.....	Columbus, Ohio, WCOL, Inc., 33 N. High St.
WCRW	ae	100	4	Chicago, Ill., Clinton R. White, 2756 Pine Grove Ave.
WEBQ	ae	100	6 (.25)	Harrisburg, Ill., Harrisburg Brdcastg. Co., 100 E. Popular
WEDC	ae	100	4	Chicago, Ill., Emil Denemark, 3850 Ogden Ave.
WFAS	ak	100	3	White Plains, N. Y., Westchester Brdcastg. Corp., Hotel Roger Smith
WGBB	ae	100	3	Freeport, N. Y., H. H. Carman, 64 S. Grove St.
WGCM	ae	500	.....	Gulfport, Miss., Great Southern Golf Club, Box 207
WGNV	ak	100	3	Chester, N. Y., Peter Goelet (Orange County)
WHBF	ak	100	(.25)	Rock Island, Ill., Rock Island Brdcastg. Co., Hotel Harms
WHBU	ak	100	(.25)	Anderson, Ind., Anderson Brdcastg. Corp., Box 816
WIBU	ak	100	(.25)	Poynette, Wis., Wm. C. Forrest, R. F. D. No. 3
WJBY	ak	100	.....	Gadsden, Ala., Gadsden Brdcastg. Co., 112 N. 8th St.
WJEF	ae	100	D	Hagerstown, Md., Hagerstown Brdcastg. Co., Lovely Dame Bldg.
WJIM	z	100	(.25)	Lansing, Mich., Capital City Brdcastg. Co.
WJW	ae	100	(.25)	Akron, Ohio, WJW, Inc., 41 S. High St.
WKOK	ak	100	1	Sunbury, Pa., Sunbury Brdcastg. Co., 1150 N. Front St.
WMBG	ak	100	C (.25)	Richmond, Va., Havens & Martin, Inc., 914 W. Broad St.
WMFG	z	100	.....	Hibbing, Minn., Head of the Lakes Brdcastg. Co.
WMFN	ak	100	.....	Clarksdale, Miss., Attala Brdcastg. Corp., Box 180
WOCL	ak	50	.....	Jamestown, N. Y., A. E. Newton, 840 N. Main St.
WOMT	ak	100	.....	Manitowoc, Wis., Francis M. Kadow, Box 326
WPAX	ak	250	D	Thomasville, Ga., H. Wimpy, 145 E. Jackson St.
WSAY	z	100	DP	Rochester, N. Y., Brown Radio Serv., 192 S. Goodman St.
WSBC	ae	100	4	Chicago, Ill., Gene T. Dyer, 1258 S. Michigan Ave.
WSIX	ak	100	Y	Springfield, Tenn., 638 Tire & Vulcanizing Co.
WSOC	ak	100	N (.25)	Charlotte, N. C., WSOC, Inc., 516 W. Trade St.
WTAX	ak	100	.....	Springfield, Ill., WTAX, Inc., 416 E. Capitol Ave.
XEE	z	50	.....	Durango, Dgo., Alejandro Stevenson, Jr., Aptdo. 148
XEFV	ak	100	.....	Juarez, Chih., Cordove & Prieto, Ave. Ferrocarril 104
XEMZ	z	250	.....	Tijuana, L. C., Adolfo Labastida Jr., Ave. "D" No. 542
XETH	ak	100	.....	Puebla, Pue., Ramon Huerta G., Calle 17, Oriente 11

1220 kilocycles (245.8)

CMJE	z	50	.....	Camaguey, Cuba, Manuel Fernandez, Innos. Aguerre No. 2
KFKU	ae	1000	a (5)	Lawrence, Kas., University of Kansas
KTW	ak	1000	S2	Seattle, Wash., 1st Presb. Church, 7th & Spring Sts.
KWSC	ak	1000	2 (5)	Pullman, Wash., State College of Washington
WCAD	ak	500	D	Canton, N. Y., St. Lawrence University
WCAE	ak	1000	R (5)	Pittsburgh, Pa., WCAE, Inc., Box 1705
WDAE	ae	1000	C (2.5)	Tampa, Fla., Tampa Times Co., Tampa Terrace

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WREN ak 1000 Ba (5) Lawrence, Kas., WREN Brdcastg. Co., 7th & Vermont Sts.
 XETF ak 12 Veracruz, Ver., Jose M. Lopez, Independencia 28

1230 kilocycles (243.8)

CJOC ak 100 F Lethbridge, Alta., H. R. Carson, Ltd., Marquis Hotel
 CMCB ak 150 Havana, Cuba, Antonio Capablanca, Metropolitan Bldg.
 KGBX ak 500 Springfield, Mo., KGBX Inc., St. Louis at Kimbrough
 KGGM ak 250 (.5) Albuquerque, N. M., New Mexico Brdcastg. Co., KiMo Bldg.
 KYA ak 1000 N San Francisco, Calif., Pacific Brdcastg. Corp., 988 Market St.
 WFBM ae 1000 C Indianapolis, Ind., 307 N. Pennsylvania St.
 WNAC ak 1000 C (2.5) Boston, Mass., Shepard Brdcastg. Serv., 21 Brookline Ave.
 XEFJ ak 100 Monterrey, N. L., R. Junco de la Vega, P. O. Box 186
 YNOP z 100 Mangagua, Nic.

1240 kilocycles (241.8)

CJCB ak 1000 F Sydney, N. S., N. Nathanson, 318 Charlotte St.
 CMHB z 50 Sancti Spiritus, Cuba, V. E. Weiss y Cia., Independencia 53
 KGCU ak 250 I Mandan, N. D., Mandan Radio Assn., 404 W. Main St.
 KLPM ak 250 I Minot, N. D., John P. Cooley, Box 707
 KTAT ak 1000 Fort Worth, Texas, Ft. Worth Nat'l. Bank Bldg.
 KTFI ae 1000 Twin Falls, Idaho, Radio Brdcastg. Corp., Box 521
 WKAQ ae 1000 San Juan, P. R., Radio Corp. of P. R., Box 1414
 WXYZ ak 1000 B Detroit, Mich., Kunsy-Trendle Brdcastg. Corp.
 XEAI z 100 Mexico City, D. F., Carlos Gonzales C., Insurgentes 366
 XEKL z 500 Leon, Guan., Cia. Radio del Bajio, 5 de Mayo 26

1250 kilocycles (239.9)

CMCG ak 250 1255 Havana, Cuba, La Onda, S. A., Calle Malecon 340
 CMKC ak 150 Santiago, Cuba, J. A. Saco, P. O. Box 466
 KFOK ae 1000 Long Beach, Calif., Nichols & Warinner, 220 E. Anaheim St.
 WCAL ah 1000 2 (2.5) Northfield, Minn., St. Olaf College
 WDSU ak 1000 New Orleans, La., WDSU, Inc., Hotel Monteleone
 WHBI ak 1000 a (2.5) Newark, N. J., May Brdcastg. Corp., 100 Shipman St.
 WLB ak 1000 2 Minneapolis, Minn., University of Minnesota
 WNEW ae 1000 a (2.5) Newark, N. J., Wodaam Corp., 100 Shipman St.
 WTCN ak 1000 2 (5) Minneapolis, Minn., Minn. Brdcastg. Corp., Wesley Temple Bldg.

1260 kilocycles (238.0)

GFRN ak 100 F Edmonton, Alta., G. R. A. Rice, 109 C.P.R. Bldg.
 KGVO ak 1000 Missoula, Mont., Mosbys, Inc., 240 N. Higgins
 KOIL ak 1000 B (2.5) Council Bluffs, Iowa, Central States Brdcastg. Co.
 KPAC ak 500 D Port Arthur, Texas, Port Arthur College
 KRGV ak 500 Weslaco, Texas, KRGV, Inc.
 KUOA ak 1000 D Fayetteville, Ark., KUOA, Inc., Washington Hotel
 KVOA ak 500 Tucson, Ariz., Ariz. Brdcastg. Co., Cons. Nat'l. Bank Bldg.
 WHIO ae 1000 R Dayton, Ohio, Miami Valley Corp., 39 S. Ludlow St.
 WNBX ak 1000 Springfield, Vt., WNBX Brdcastg. Corp., 39 Main St.
 WTOC ae 1000 C Savannah, Ga., Savannah Brdcastg. Co., DeSoto Hotel

1270 kilocycles (236.1)

CMHD dk 250 Caibarien, Cuba, Manuel Alvarez M., Escobar 17
 HRN z 100 Tegucigalpa, Hond.
 KGCA ak 100 2D Decorah, Iowa, Chas. W. Greenley, 201 Water St.
 KOL ae 1000 C (2.5) Seattle, Wash., Seattle Brdcastg. Co., Northern Life Tower
 KVOR ae 1000 C Colorado Springs, Colo., S. H. Patterson, Antlers Hotel
 KWLC ak 100 2D Decorah, Iowa, Luther College
 WASH ak 500 aN Grand Rapids, Mich., Kunsy-Trendle Corp., Nat'l. Bank Bldg
 WFBR ak 500 R Baltimore, Md., Baltimore Radio Show, 7 St. Paul St.
 WIDX ae 1000 N (2.5) Jackson, Miss., Lamar Life Insurance Co.
 WOOD ak 500 aN Grand Rapids, Mich., Kunsy-Trendle Brdcastg. Corp.
 XEG z 200 Ensenada, L. C., Juan C. Chavez, Av. Obregon 958
 XFB ak 250 Jalapa, Ver., Gobierno del Estado de Veracruz
 YNLF z 20 1275 Managua, Nic.

1280 kilocycles (234.2)

CMCU z 150 Havana, Cuba, San Francisco No. 13, Vibora
 KFBB ae 1000 (2.5) Great Falls, Mont., Buttrey Brdcastg., Inc., P. O. Box 1817
 WCAM ae 500 I Camden, N. J., City of Camden, City Hall
 WCAP ae 500 I Asbury Park, N. J., Radio Industries, Inc., Convention Hall
 WDOD ak 1000 C (5) Chattanooga, Tenn., WDOD Brdcastg. Corp., Hotel Patten
 WIBA ae 1000 N (5) Madison, Wis., Badger Brdcastg. Co., 111 King St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WORC	ak	500	C	Worcester, Mass., Alf. E. Kleindienst, 60 Franklin St.
WRR	ak	500	.....	Dallas, Texas, City of Dallas, Southland Bldg.
WTNJ	ak	500	1	Trenton, N. J., Trenton Brdcstg. Co., Stacy Trent Hotel
XEMX	z	12	.....	Mexico City, D. F., Alfonso T. Avals, Salamanca 87

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah, Intermountain Brdcstg. Corp.
KLCN	ak	100	D	Blytheville, Ark., C. L. Lintzenich, Main & Division Sts.
KTRH	ak	1000	C (5)	Houston, Texas, KTRH Brdcstg. Co., Rice Hotel
WEEB	ae	1000	N (5)	Superior, Wis., Spaulding Hotel, Duluth, Minn.
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa., Chamber of Commerce Bldg.
WNBZ	z	100	D	Saranac Lake, N. Y., Smith & Mace, 70 Broadway
WNEL	ak	500	.....	San Juan, P. R., Juan Piza, Box 1252

1300 kilocycles (230.6)

HIZ	z	10	.....	Santo Domingo, D. R., Abbes y Garcia, Calle Duarte 68
KALE	ak	500	3C	Portland, Ore., KALE, Inc., New Heathman Hotel
KFAC	ak	1000	.....	Los Angeles, Calif., E. L. Cord, 645 So. Mariposa
KFH	ak	1000	C	Wichita, Kans., KFH, 124 1/2 S. Market St.
KFJR	ag	500	3	Portland, Ore., KFJR, Inc., 622 Lumberman's Bldg.
WBRR	ae	1000	1	Brooklyn, N. Y., Peoples Pulpit Assn., 124 Columbia Hts.
WEVD	ak	1000	1	New York, N. Y., Jewish Daily Forward, Hotel Claridge
WFAB	ae	1000	1	New York, N. Y., 5th Ave. Brdcstg. Corp., 154 W. 57th St.
WFBC	ak	1000	(5)	Greenville, S. C., Greenville News-Piedmont Co., Imperial Hotel
WHAZ	ae	500	1	Troy, N. Y., Rensselaer Polytechnic Inst., 8th Ave.
WIOD	ak	1000	N	Miami, Fla., Isle of Dreams Corp., Biscayne Blvd.

1310 kilocycles (228.9)

CHCK	ak	50	.....	Charlottetown, P. E. I., Burke & Gesner, 36 Upper Hillsboro St.
CJLS	ak	100	.....	Yarmouth, N. S., Laurie L. Smith, Grand Hotel
CKCV	ak	100	F	Quebec, Que., CKCV, Ltd., 142 St. John St.
KCRJ	ak	100	D	Jerome, Ariz., Chas. C. Rovinson, Drawer D
KPPL	dk	100	(.25)	Dublin, Texas, C. C. Baxter, Box 176
KFXR	ak	100	(.25)	Oklahoma City, Okla., 541 Hightower Bldg.
KFYO	dk	100	(.25)	Lubbock, Texas, Kirksey Bros., Hotel Lubbock
KGCX	ak	100	(.25)	Wolf Point, Mont., E. E. Krebsbach
KGEZ	aj	100	.....	Kalispell, Mont., Donald C. Treloar, Box 1
KGFV	ak	100	.....	Kearney, Neb., Cent. Nebr. Brdcstg. Corp., 919 W. 27th
KINY	ak	100	.....	Juneau, Alaska, Edwin A. Kraft
KIT	ak	100	(.25)	Yakima, Wash., Carl E. Haymond, 109 1/2 E. Yakima Ave.
KIUJ	ak	100	.....	Santa Fe, N. Mex., W. C. Ervin
KMED	ck	100	(.25)	Medford, Ore., Mrs. W. J. Virgin, Sparta Bldg.
KRMD	ak	100	.....	Shreveport, La., KRMD, Inc., Jefferson Hotel
KROC	z	100	.....	Rochester, Minn., Southern Minnesota Broadcasting Co.
KTSM	z	100	.....	El Paso, Texas, Tri-State Brdcstg. Co., Box 1976
KVOL	ak	100	.....	Lafayette, La., Evangeline Hotel
KXRO	ak	100	.....	Aberdeen, Wash., KXRO, Inc., Hotel Morck
WAML	ak	100	.....	Laurel, Miss., New Laurel Radio Co., Box 26
WBEO	ae	100	.....	Marquette, Mich., Lake Superior Brdcstg. Co., 146 W. Washington
WBOW	ak	100	(.25)	Terre Haute, Ind., Banks of Wabash, Inc., 19 Beach Block
WBRE	ak	100	.....	Wilkes Barre, Pa., Louis G. Baltimore, 16 N. Main St.
WCLS	ak	100	.....	Joliet, Ill., WCLS, Inc., 301 E. Jefferson St.
WCMI	z	100	D	Ashland, Ky., Ashland Brdcstg. Co., Box 106
WDAH	ak	100	S	El Paso, Texas, Tri-State Brdcstg. Co., Box 1976
WEBR	neh	100	(.25)	Buffalo, N. Y., Howell Brdcstg. Co., Inc., 23 North St.
WEMP	z	100	D	Milwaukee, Wis., Milwaukee Brdcstg. Co.
WEXL	ak	50	.....	Royal Oak, Mich., Royal Oak Brdcstg. Co., 212 W. 6th St.
WFBG	ae	100	3	Altoona, Pa., Gable Brdcstg. Co., 12th Ave. & 13th St.
WDFD	mk	100	.....	Flint, Mich., Flint Brdcstg. Co., Union Industrial Bldg.
WGH	aj	100	(.25)	Newport News, Va., Hampton Rds. Brdc. Corp., 2813 Washington
WHAT	ak	100	4	Philadelphia, Pa., Indp. Brdcstg. Co., Public Ledger Bldg.
WJAC	ae	100	3	Johnstown, Pa., WJAC, Inc., Locust St.
WJBC	ak	100	6 (.25)	Muncie, Ind., D. A. Burton, Anthony Bldg.
WLNH	ak	100	.....	Laconia, N. H., Northern Brdcstg. Co., 523 Main St.
WMBO	ak	100	.....	Auburn, N. Y., WMBO, Inc., Metcalf Bldg.
WMFF	ak	100	D (.25)	Plattsburg, N. Y., Plattsburg Brdcstg. Corp., Hotel Cumberland
WNBH	ak	100	(.25) C	New Bedford, Mass., E. Anthony & Sons, 251 Union St.
WOL	ak	100	.....	Washington, D. C., American Brdcstg. Co., Annapolis Hotel
WRAP	ak	100	.....	Reading, Pa., Reading Brdcstg. Co., 533 Penn St.
WROL	ak	100	(.25)	Knoxville, Tenn., Stuart Brdcstg. Corp., 524 S. Gay St.
WSAJ	ae	100	.....	Grove City, Pa., Grove City College, 418 Popular St.
WSGN	ak	100	(.25)	Birmingham, Ala., R. B. Broyles, Tutwiler Hotel
WSJS	ak	100	C	Winston-Salem, N. C., Winst.-Salem Jour. Co., 416 N. Marshall
WTAL	ak	100	.....	Tallahassee, Fla., Florida Capitol Brdcsters., Inc.
WTEL	ce	100	4	Philadelphia, Pa., Foulkrod Radio Eng. Co., 3701 N. Broad
WTJS	ak	100	(.25)	Jackson, Tenn., Sun Publishing Co., Sun Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WTRC	ak	100	6 (25)	Elkhart, Ind., Truth Pub. Co., Hotel Elkhart
XEAJ	z	15	.....	Oaxaca, Oax., Enrique M. Crihuela, 3a, Curroro 18
XECW	z	10	.....	Mexico City, D. F., M. E. Bravo de Cordero, Av. Juarez 104
XEFW	ak	250	.....	Tampico, Tams., J. E. Martinez, Salvador Diaz Miron 6
XETB	ak	125	.....	Torreón, Coah., P. O. Box 225
XEX	ak	125	.....	Monterrey, N. L., L. F. Petit Jean, P. O. Box 10
XFA	z	5	.....	Aguascalientes, Ags., Apartado Postal 92
.....	z	100	P	Lakeland, Fla., Lake Region Brdctsg. Co.
.....	z	100	DP	Pampa, Texas, Pampa Daily News

1320 kilocycles (227.1)

CMOX	ak	250	.....	Havana, Cuba, 10 entre 17 y 19, Vedado, Havana
KGHB	ak	500	.....	Pueblo, Colo., C. P. Ritchie, 113 Broadway
KGMB	ak	1000	C	Honolulu, T. H., Honolulu Brdctsg. Co., Box 2663
KID	ae	250	(.5)	Idaho Falls, Idaho, KID Brdctsg. Co., Box 487
KRNT	ak	500	C (1)	Des Moines, Iowa, 715 Locust St.
WADC	ae	1000	C (2.5)	Akron, Ohio, Allen T. Simmons, P. O. Box 29
WORK	ak	1000	.....	York, Pa., York Brdctsg. Co., 15 S. Beaver St.
WSMB	ak	500	N	New Orleans, La., WSMB, Inc., Maison Blanche Bldg.

1330 kilocycles (225.4)

CMHK	z	250	.....	Cruces, Cuba, Virgilio Villanueva, Calle Heredia 61
KGB	ag	1000	C (2.5)	San Diego, Calif., Don Lee System, 1012 First Ave.
KMO	ak	250	.....	Tacoma, Wash., KMO, Inc., Hotel Winthrop
KSCJ	aj	1000	1C (2.5)	Sioux City, Iowa, Perkins Bros. Co., 415 Douglas St.
WDRG	ae	1000	C (2.5)	Hartford, Conn., WDRG, Inc., Corning Bldg., 11 Asylum St.
WSAI	ak	1000	R (2.5)	Cincinnati, Ohio, Crosley Radio Corp., 1329 Arlington St.
WTAQ	ae	1000	1	Eau Claire, Wis., WHBY, Inc., Hotel Eau Claire

1340 kilocycles (223.7)

CMJL	z	100	.....	Camaguey, Cuba, M. Caymares, Republica 181
KGDY	ak	250	D	Huron, S. D., Voice of S. D., Inc., 347 Dakota St.
KGIR	ak	1000	N (2.5)	Butte, Mont., KGIR, Inc., 121 W. Broadway
KGNO	ak	250	.....	Dodge City, Kans., First National Bank Bldg.
WCOA	ak	500	C	Pensacola, Fla., Pensacola Brdctsg. Co., San Carlos Hotel
WFEA	ae	500	C (1)	Manchester, N. H., N. Hamp. Brdctsg. Co., Carpenter Hotel
WSPD	ae	1000	C (2.5)	Toledo, Ohio, Toledo Brdctsg. Co., 505 Jefferson
XFD	z	350	.....	Jalapa, Ver., Gobierno Estado de Veracruz

1350 kilocycles (222.1)

CMCA	z	250	.....	Havana, Cuba, Testar y Gonzalez, Calle Caliano 102
KIDO	ak	1000	(.25)	Boise, Idaho, Boise Brdctsg. Station, Hotel Boise
KWK	ak	1000	B (5)	St. Louis, Mo., Thomas Patrick, Inc., Hotel Chase
WAWZ	ae	500	1 (1)	Zarephath, N. J., Pillar of Fire
WBXN	ae	250	1	New York, N. Y., Standard Cahill Co., 260 E. 161st St.

1360 kilocycles (220.4)

CMJH	dk	100	.....	Ciego de Avila, Cuba, Luis Marauri H., Castilla 37
KCRC	ak	250	.....	Enid, Okla., Enid Radiophone Co., Oxford Hotel
KGER	ak	1000	.....	Long Beach, Calif., Consolidated Brdctsg. Co., 435 Pine Ave.
WCSC	ak	500	(1)	Charleston, S. C., S. C. Brdctsg. Corp., Francis Marion Hotel
WFBL	ak	1000	C (5)	Syracuse, N. Y., Onondaga Brdctsg. Co., Onondaga Hotel
WGES	ae	500	1	Chicago, Ill., Oak Leaves Brdctsg. Co., 4000 Washington
WQBC	ak	1000	D	Vicksburg, Miss., Delta Brdctsg. Corp., Hotel Vicksburg
WSBT	ak	500	1	South Bend, Ind., South Bend Tribune, 225 W. Colfax Ave.

1370 kilocycles (218.8)

CKCW	ak	100	F	Moncton, N. B., Moncton Brdctsg. Co., K. of P. Hall
CMGE	ak	50	.....	Cardenas, Cuba, Genaro Sebater, Av. Cespedes 180
KAST	ak	100	D	Astoria, Ore., Abraham Shapiro, 611 Commercial St.
KELD	z	100	.....	El Dorado, Ark., T. H. Barton
KERN	ak	100	.....	Bakersfield, Calif., Station KERN, Elk's Club
KFGO	ak	100	.....	Boone, Iowa, Boone Biblical College, 924 W. 2nd St.
KFJM	ak	100	(.25)	Grand Forks, N. D., University of North Dakota
KFJZ	ae	100	.....	Fort Worth, Texas, Ft. Worth Brdctsters., 502 Trinity Life
KFRQ	ak	100	D	Longview, Texas, Voice of Longview, Box 86
KGAR	ae	100	(.25)	Tucson, Ariz., Tucson Motor Serv., 142 S. 6th Ave.
KGFG	bk	100	.....	Oklahoma City, Okla., Okla. Brdctsg. Co., 1113 N. Broadway
KGFL	ak	100	4	Roswell, N. M., KGFL, Inc., 507 N. Main St.
KGKL	ak	100	(.25)	San Angelo, Texas, KGKL, Inc., St. Angelus Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KICA	ak	100	P	Clovis, N. M., Southwest Brdcstg. Co.
KIUP	ak	100	4	Durango, Colo., C. Guy Shepard, 2800 Main St.
KLUF	z	100	(.25)	Galveston, Texas, Geo. R. Clough, Buccaneer Hotel
KMAC	ak	100	5	San Antonio, Texas, W. W. McAllister, Smith-Young Tower
KONO	ak	100	5	San Antonio, Texas, Mission Brdcstg. Co., Milam Bldg.
KRE	ak	100	(.25)	Berkeley, Calif., 1st Cong. Church, 2337 Shattuck Ave.
KRKO	ak	50	1	Everett, Wash., Lee Mudgett, 2814 Rucker Ave.
KSLM	ak	100	.....	Salem, Ore., Oregon Radio, Inc.
KUJ	ak	100	.....	Walla Walla, Wash., KUJ, Inc., Marcus Whitman Hotel
KVL	ak	100	1	Seattle, Wash., KVL, Inc., 2101 Smith Tower
KWKC	ak	100	.....	Kansas City, Mo., W. Duncan Brdcstg. Co., 3915 Main St.
KWYO	ak	100	.....	Sheridan, Wyo., Big Horn Brdcstg. Co.
WABY	aj	100	.....	Albany, N. Y., Adirondack Brdcstg. Co., Hotel Ten Eyck
WAGF	ak	100	(.25)	Dothan, Ala., Dothan Brdcstg. Co., Box 25
WBNY	z	100	2P (.25)	Buffalo, N. Y., Roy L. Albertson
WBTM	ak	100	(.25)	Danville, Va., Piedmont Brdcstg. Co., Miller Bldg.
WCBM	ae	100	(.25)	Baltimore, Md., Baltimore Brdcstg. Co., Keith Theater Bldg.
WDAS	ae	100	(.25)	Philadelphia, Pa., WDAS Brdcstg. Co., 1211 Chestnut St.
WGL	ae	100	C	Fort Wayne, Ind., F. C. Zieg, 213 W. Main St.
WHBO	ak	100	.....	Memphis, Tenn., WHBO, Inc., Hotel Claridge
WHDF	ak	100	(.25)	Calumet, Mich., Upper Mich. Brdcstg. Co., Box 643
WIBM	ak	100	(.25)	Jackson, Mich., WIBM, Inc., 306 W. Michigan Ave.
WJTL	ak	100	.....	Atlanta, Ga., Atlanta Brdcstg. Co., Volunteer Life Bldg.
WLLH	ak	100	(.25)	Lowell, Mass., Merrimac Brdcstg. Co., Box D
WMBR	ak	100	C (.25)	Jacksonville, Fla., F. J. Reynolds, Carling Hotel
WMFD	ak	100	D	Wilmington, N. C., Richard A. Dunlea, Hotel Wilmington
WMFO	ak	100	D	Decatur, Ala., James R. Doss, Jr.
WOC	ak	100	C (.25)	Davenport, Iowa, Palmer School, 1002 Brady St.
WPAY	ak	100	.....	Portsmouth, Ohio, Veebee Corp.
WPFY	ak	100	.....	Hattiesburg, Miss., Forest Brdcstg. Co., 512 Main St.
WQDM	ae	100	D	St. Albans, Vt., Regan & Bostwick, 42 N. Main St.
WRAK	ak	100	(.25)	Williamsport, Pa., WRAK, Inc., 244 W. 4th St.
WRDO	ae	100	.....	Augusta, Maine, WRDO, Inc., Augusta House
WRJN	ak	100	(.25)	Racine, Wis., Racine Brdcstg. Corp., Hotel Racine
WSVS	ak	50	D2	Buffalo, N. Y., Seneca High School, 666 E. Delevan Ave.
XEFZ	ak	100	.....	Mexico City, D. F., Manuel Zetina, Cedro y Nonolco No. 344
XEJ	ak	125	.....	Morelia, Mch., Carlos Gutierrez M., F. I. Madero 545
XEZZ	z	100	.....	San Luis Potosi, SLP, Emilio Delgado R., Av. Chicosein 32
.....	z	100	P	Evansville, Ind.
.....	z	100	P	Virginia, Minn.

1380 kilocycles (217.3)

CMBX	ak	500	.....	Havana, Cuba, Alberto Alvarez, San Miguel 194
KOH	ak	500	C	Reno, Nev., The Bee, Inc., 440 N. Virginia St.
KQV	ae	500	.....	Pittsburgh, Pa., KQV Brdcstg. Co., 1406 C. of C. Bldg.
WALA	af	500	C (1)	Mobile, Ala., Pape Brdcstg. Co., P. O. Box 288
WKBH	ae	1000	.....	LaCrosse, Wis., WKBH, Inc., 409 Main St.
WNBC	mk	250	D	New Britain, Conn., Wm. J. Sanders, 147 Main St.
WSMK	ak	200	C	Dayton, Ohio, WSMK, Inc., 121 N. Main St.

1390 kilocycles (215.7)

CMJC	z	150	.....	Camaguey, Cuba, Felix Sanchez, Calle Cisneros y Grnl Gomez
HHH	ak	15	1395	San Fed. de Macoris, D.R., Domingo Dominguez
KLRA	ae	1000	C (.25)	Little Rock, Ark., Arkansas Brdcstg. Co., Box 550
KOOS	ae	250	.....	Marschfield, Ore., H. H. Hanseth, Hall Bldg.
KOY	ae	500	(1)	Phoenix, Ariz., Nielson Co., P. O. Box 1323
WHK	ae	1000	C (.25)	Cleveland, Ohio, Radio Air Corp., 1311 Terminal Tower

1400 kilocycles (214.2)

CMGZ	z	100	.....	Matanzas, Cuba, Oscar Mechoso, Independencia 56
CMKR	z	100	.....	Santiago, Cuba, Jaime Nadal, Calle "B", Maso alta 71
KLO	ak	500	.....	Ogden, Utah, Interstate Brdcstg. Corp., 405-25th St.
KTUL	ak	500	C (1)	Tulsa, Okla., Tulsa Brdcstg. Co., Nat'l Bank Bldg.
TGX	ak	250	.....	Guatemala City, Gt., Ministerio de Fomento
WARD	ak	500	2	Brooklyn, N. Y., U. S. Brdcstg. Corp., 427 Fulton St.
WBBC	ae	500	2 (1)	Brooklyn, N. Y., Brooklyn Brdcstg. Corp., 552-54 Atlantic
WIRE	ak	500	R (1)	Indianapolis, Ind., 540 N. Meridian St.
WLTH	ak	500	2	Brooklyn, N. Y., Voice of Brooklyn, 105 2nd Ave., N. Y. C.
WFWF	ak	500	2	Brooklyn, N. Y., Paramount Brdcstg. Co., 4 & 5 Court Sq.

1410 kilocycles (212.6)

CHNC	ak	500	F (1)	New Carlisle, Que., Gaspesian Radio Brdcstg. Co.
CKFC	ak	50	5	Vancouver, B. C., United Church of Can., Hemlock & 12th
CKMO	ag	100	5F	Vancouver, B. C., Sprout-Shaw Co., 1604 Bekins Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CMCR	z	150	.....	Havana, Cuba, Aurelio Hernandez, Av. Milagros 35, Vibora
KGNC	ae	1000	(2.5)	Amarillo, Texas, Plains Radio Brdcastg. Co.
WAB	ak	500	C	San Antonio, Mass., Bay State Brdcastg. Co., 21 Brookline Ave.
WBCM	ae	500	.....	Bay City, Mich., James E. Davidson, Hotel Wenonah
WHBL	ae	500	4Z	Sheboygan, Wis., Press Publishing Co., Press Bldg.
WHIS	ak	250	(.5)	Bluefield, W. Va., Daily Telegraph, Bland St.
WROK	ak	500	4	Rockford, Ill., Rockford Brdcasters, Inc., 109 S. Water
WSFA	ak	500	C (1)	Montgomery, Ala., Mont. Brdcastg. Co., Jefferson Davis Hotel

1420 kilocycles (211.1)

CKGB	ak	100	.....	Timmins, Ont., R. H. Thompson, Press Bldg.
CMGI	z	50	.....	Matanzas, Cuba, Armando Lizama Mart. No. 35
KABC	ak	100	(.25)	San Antonio, Texas, Alamo Brdcastg. Co., Texas Theater Bldg.
KABR	ak	100	.....	Aberdeen, S. Dak., Aberdeen Brdcastg. Co.
KALB	z	100	D	Alexandria, La., Alexandria Brdcastg. Co.
KBPB	aj	100	4	Portland, Ore., Benson School, 546 N. E. 12th Ave.
KGMC	ak	100	.....	Texarkana, Ark., No. Miss. Brdcastg. Co., Box 865
KFIZ	ak	100	.....	Fond du Lac, Wis., Reporter Ptg. Co., 18 W. First St.
KGFF	ak	100	(.25)	Shawnee, Okla., KGFJ, Inc., 9th & Bell Sts.
KGGC	ak	100	.....	San Francisco, Cal., Golden Gate Brdcastg. Co., 230 Eddy St.
KGIW	ak	100	I	Alamosa, Colo., Leonard E. Wilson, 326 N. Commercial
KHCB	z	100	.....	Hilo, T. H., Honolulu Brdcastg. Co.
KIDW	ak	100	I	Lamar, Colo., Lamar Brdcastg. Co., Box 688
KIUN	ak	100	.....	Pecos, Texas, J. H. Hawkins & B. H. Tubbs
KNET	z	100	DP	Palestine, Texas, Palestine Brdcastg. Assn.
KORE	ae	100	.....	Eugene, Ore., Eugene Brdcastg. Station, 733 Willamette St.
KRLC	ak	100	.....	Lewiston, Idaho, H. E. Studebaker, Lewis-Clarke Hotel
KRLH	z	100	DP	Midland, Tex., Clarence Scharbau
KUMA	ak	100	.....	Yuma, Ariz., Dr. A. H. Schermann, Box 267
KWBG	ak	100	.....	Hutchinson, Kans., W. N. Greenwald
KXL	ak	100	4 (.25)	Portland, Ore., KXL Broadcasters, Multnomah Hotel
WZCO	ak	100	C	Waco, Texas, Cent. Tex. Brdcastg. Co., Amicable Bldg.
WACM	ae	100	.....	Presque Isle, Maine, Aroostook Brdcastg. Corp., Main St.
WAZL	ak	100	.....	Hazleton, Pa., Hazleton Broadcasting Service, Inc.
WCBS	ak	100	.....	Springfield, Ill., WCBS, Inc., 208 1/2 S. 5th St.
WDEF	ak	100	3	Rocky Mount, N. C., Wm. Avera Wynne, Box 221
WEHC	ak	100	3 (.25)	Charlottesville, Va., Community Brdcastg. Corp., Box 221
WEHS	ak	100	a	Cicero, Ill., WEHS, Inc., 6138 Cermak Road
WELL	ak	100	.....	Battle Creek, Mich., Enquirer News, 38 W. State St.
WGPC	ak	100	.....	Albany, Ga., Americus Brdcastg. Corp., Rylander Theater
WHDL	ak	100	D	Olean, N. Y., Tupper Lake Brdcastg. Co., Exchange Bank
WHFC	ae	100	a	Cicero, Ill., WHFC, Inc., 6138 W. Cermak Road
WILM	aj	100	2	Wilmington, Del., Del. Brdcastg. Corp., 920 King St.
WJBO	ak	100	.....	Baton Rouge, La., Baton Rouge Brdcastg. Co., 334 Florida St.
WJBR	z	100	P	Gastonia, N. C., J. B. Roberts
WJMS	ak	100	.....	Ironwood, Mich., WJMS, Inc., St. James Hotel
WKBI	ak	100	a	Cicero, Ill., WKBI, Inc., 6138 Cermak Road
WLAF	ak	100	(.25)	Lexington, Ky., Amer. Brdcastg. Corp., Main & Esplanade
WLB	ak	100	.....	Kansas City, Kans., WLB, Co., 901 N. 8th St.
WLEU	ak	100	(.25)	Erie, Pa., Leo J. Omelian, Commerce Bldg.
WMAS	ak	100	C (.25)	Springfield, Mass., WMAS, Inc., 70 Chestnut St.
WMBC	ae	100	(.25)	Detroit, Mich., Mich. Brdcastg. Co., 7310 Woodward Ave.
WMBH	ak	100	(.25)	Joplin, Mo., Joplin Brdcastg. Co., 1334 Roosevelt St.
WMFJ	ak	100	.....	Daytona Beach, Fla., W. W. Esch, 126 1/2 Magnolia Ave.
WNRA	ak	100	.....	Sheffield, Ala., Muscle Shoals Brdcastg. Corp., Box 486
WPAD	ak	100	(.25)	Paducah, Ky., Paducah Brdcastg. Co., 2201 Broadway
WPAR	ak	100	.....	Parkersburg, W. Va., Chancellor Hotel
WPRP	z	100	P (.25)	Ponce, P. R., Julio M. Conesa
XEAZ	z	7	.....	Guanajuato, Gto., Antonio Zavala, Pasco de la Presa 85
XEFB	ak	100	.....	Monterrey, N. L., Jesus Quintanilla, Box 317

1430 kilocycles (209.7)

CMJP	ak	100	.....	Camaguey, Cuba, Cesar Canall, Callejas No. 28
KECA	ah	1000	(.5) N	Los Angeles, Calif., E. C. Anthony, Inc., 1000 S. Hope St.
KGNF	ak	1000	D	North Platte, Neb., Great Plains Brdcastg. Co., W. 12th St.
KSO	ak	500	B (1)	Des Moines, Iowa, Iowa Brdcastg. Co., 715 Locust St.
WBNS	ae	500	C (1)	Columbus, Ohio, WBNS, Inc., 33 N. High St.
WHEC	ae	500	C (1)	Rochester, N. Y., WHEC, Inc., 40 Franklin St.
WHP	ak	500	C (1)	Harrisburg, Pa., WHP, Inc., 216 Locust St.
WNBR	ae	500	(1)	Memphis, Tenn., Memphis Brdcastg. Co., Hotel DeVoy
WOKO	aj	500	C (1)	Albany, N. Y., WOKO, Inc., Hotel Ten Eyck

1440 kilocycles (208.2)

HP50	z	25	.....	Colon, Panama
KDFN	ak	500	.....	Casper, Wyo., Donald Lewis Hatthaway, Box 936

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KSL	ag	250	D	Oakland, Calif., Warner Bros., 2201 Telegraph Ave.
KXYZ	ak	1000	....	Houston, Texas, Harris County Brdcstg. Co., Gulf Bldg.
TIFS	z	7.5	(1441)	Cartago, C. R.
WBIG	ae	500	C (1)	Greensboro, N. C., N. C. Brdcstg. Co., The O. Henry Hotel
WBCA	aj	500	A	Allentown, Pa., B. B. Musselman, 39-41 Tenth St.
WMBD	ak	500	C (1)	Peoria, Ill., Peoria Brdcstg. Co., 11r No. Madison
WSAN	aj	500	A	Allentown, Pa., WSAN, Inc., 39 Tenth St.
XEFI	ae	250	....	Chihuahua, Chih., Feliciano Lopez Isles, Aptdo. 157

1450 kilocycles (206.8)

CFCT	ae	75	....	Victoria, B. C., Vic. Brdcstg. Assn., 620 View St.
CHGS	ae	50	F	Summerside, P.E.I., R. T. Holman, Ltd., 190 Water St.
KIEM	ak	500	....	Eureka, Calif., Redwood Brdcstg. Co., Vance Hotel
KTBS	ak	1000	N	Shreveport, La., Tri-State Brdcstg. Sys., Box 17
WGAR	ak	500	B (1)	Cleveland, Ohio, WGAR Brdcstg. Co., Hotel Statler
WHOM	ae	250	....	Jersey City, N. J., N. J. Brdcstg. Corp., 2870 Hudson Blvd.
WSAR	ae	1000	....	Fall River, Mass., Academy of Music Bldg.
WTFI	ak	500	....	Athens, Ga., Liberty Brdcstg. Co., 133 E. Washington

1460 kilocycles (205.4)

CMKF	z	50	....	Holguin, Cuba, Manuel J. De Gongora, Libertad esq. Arias
KSTP	ak	25000	N	St. Paul, Minn., Nat'l. Battery Brdcstg. Co., St. Paul Hotel
WJSV	ak	10000	C	Washington, D. C., Old Dominion Brdcstg. Co., Earle Bldg.

1470 kilocycles (204.0)

CMOK	z	150	....	Havana, Cuba, Rafael Valdez, Estrella 121
KGA	ak	5000	N	Spokane, Wash., Louis Wasmer, 1023 W. Riverside Ave.
WLAC	ak	5000	C	Nashville, Tenn., WLAC, Inc., 2421 West End Ave.

1480 kilocycles (202.6)

OMA	ak	5000	C	Oklahoma City, Okla., Nat'l. Radio Man. Co., Biltmore Hotel
WKBW	ck	5000	C	Buffalo, N. Y., Buffalo Brdcstg. Corp., Rand Bldg.

1490 kilocycles (201.2)

KFBK	ak	5000	C	Sacramento, Calif., Sacramento Bee, 7th & I Sts.
WKCY	ae	5000	B	Covington, Ky., L. B. Wilson, Inc., 6th & Madison

1500 kilocycles (199.9)

CHIC	ak	100	....	Sault Ste. Marie, Ont., Hyland & Whitby, 678 Queen St., E.
CMCN	z	150	....	Havana, Cuba, Reina y Av. Buen Retiro, Marlanao
KDB	ak	100	C	Santa Barbara, Calif., Sta. Barbara Brdcstg. Co., 15-17 E. Haley
KGFI	ak	100	(25)	Corpus Christ, Tex., Eagle Brdcstg. Co., Box 1508
KGFK	ak	100	Y	Moorhead, Minn., Red River Brdcstg. Co., Comstock Hotel
KGKB	ak	100	(25)	Tyler, Texas, East Texas Brdcstg. Co., 115 S. College
KGKY	ak	100	(25)	Scottsbluff, Neb., Hilliard Co., 1517 1/2 Broadway
KNEL	z	100	DP	Brady, Tex., G. L. Burns
KNOW	ak	100	....	Austin, Texas, KUT Brdcstg. Co., Norwood Bldg.
KOTN	ak	100	D	Pine Bluff, Ark., Universal Brdcstg. Corp., Hotel Pines
KPJM	ak	100	....	Prescott, Ariz., Scott & Sturm, Box 782
KPLC	ak	100	....	Lake Charles, La., Calcasieu Brdcstg. Co., Majestic Hotel
KPO	ak	100	(25)	Wenatchee, Wash., Westcoast Brdcstg. Co., KPQ Bldg., 20 2nd
KREG	ak	100	....	Santa Ana, Calif., The Voice of the Orange Empire, Ltd.
KRNR	ak	100	DP	Roseburg, Ore., Oregon Publishing Co.
KXO	ae	100	....	El Centro, Calif., F. M. Bowles, Box 140
WCNW	ak	100	(25)	Brooklyn, N. Y., Arthur Faske, 864-868 Flatbush Ave.
WDNC	ae	100	C	Durham, N. C., Durham Radio Corp., Washington Duke Hotel
WGAL	ae	100	(25)	Lancaster, Pa., WGAL, Inc., 8 W. King St.
WHBB	z	100	D	Selma, Ala., YMCA Building
WHEF	ak	100	(25)	Kosciusko, Miss., Attala Brdcstg. Corp., Box 631
WJBK	ae	100	(25)	Detroit, Mich., Jas. F. Hopkins, Inc., 6559 Hamilton Ave.
WKBW	ak	100	(25)	E. Dubuque, Ill., Sanders Bros., Hotel Julian
WKBV	ak	100	....	Richmond, Ind., Knox Radio Corp., Box 308
WKBZ	ak	100	(25)	Muskegon, Mich., Karl L. Ashbacher, Occidental Hotel
WKUE	ak	100	....	Griffin, Ga., Station WKEU, 906 Hill St.
WMBQ	ae	100	....	Brooklyn, N. Y., Metropolitan Brdcstg. Corp., 95 Leonard
WMEX	ak	100	(25)	Boston, Mass., The Northern Corp., Hotel Manger
WNBF	ae	100	C	Binghamton, N. Y., Howitt-Wood Co., Arlington Hotel
WOPI	ae	100	....	Bristol, Tenn., Radiophone Station WOPI, 22nd & State
WRDW	ak	100	....	Augusta, Ga., Augusta Brdcstg. Corp., 309 Eighth St.
WRGA	ak	100	(25)	Rome, Ga., Rome Brdcstg. Corp., 10 Third Ave.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WSYB	ak	100	....	Rutland, Vt., Philip Weiss Music Co., Box 328
WTMV	ak	100	....	East St. Louis, Ill., Miss. Valley Brdcstg. Co.
WWRL	ak	100	1 (.25)	Woodside, N. Y., L. I. Brdcstg. Corp., 41-30 58th St.
WWSW	ae	100	(.25)	Pittsburgh, Pa., Walker & Downing Corp., Hotel Keystone
.....	z	100	P	Valley City, N. Dak.

1510 kilocycles (198.6)

CFRC	ak	100	....	Kingston, Ont., Queen's University, Fleming Hall
CKCR	ak	100	....	Waterloo, Ont., Mitchell & Liddle, 24 King St., So.

1530 kilocycles (196.0)

W1XBS	z	1000	....	Waterbury, Conn., Amer. Republican Inc., 136 Grand St.
W9XBY	ak	1000	....	Kansas City, Mo., 106 W. 14th St.

1550 kilocycles (193.4)

W2XR	z	1000	....	Long Isl. City, N. Y., Scientific Brdcstg. Serv., 41 Park Row, N. Y.
W6XAI	ak	1000	....	Bakersfield, Calif., Pioneer Mercantile Co.

KEY TO SYMBOLS

As Shown in the Index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelengths in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols				k	Has no stamps.	networks.	
a	Verifies reception for return postage.	m	Verifies for 5c.	P	Has construction permit only.		
b	Verifies only occasionally.	n	Weather or time only.	R	National "Red" network.		
c	Does not verify.	z	No information available.	S	Sunday only.		
d	Verification 10c; letter 25c.	Fourth Column Symbols				Sy	Synchronized.
e	Sends Ekko stamp for 10c.	B	National "Blue" network.	X	Has permit to increase power.		
f	Sends Ekko stamp for 5c.	C	Columbia network.	Y	Has permit to change location.		
g	Sends Ekko stamp for postage.	D	Day time only.	Z	Has permit to change frequency.		
h	Sends own station stamp for 10c.	Dn	Day time with occasional evening hours.	a-b-c	Small letters show stations using same transmitter.		
1	Sends own station stamp for 5c.	F	Canadian Radio Brdcstg. Commission.	1-2-3	Figures denote stations sharing time.		
j	Sends own station stamp for postage.	N	National "Red" and "Blue"	.....	No information.	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue. F Canadian.

ALABAMA	Juneau	El Dorado	Beverly Hills
Birmingham	KINY 1310 100	KELD 1370 100	KMPC 710 500
WAPI 1140 5000 N	Ketchikan	Fayetteville	Burbank
WBRC 930 1000 C	KGBU 900 500	KUOA 1260 1000	KELW 780 500
WSGN 1310 100	ARIZONA	Fort Smith	Chico
Decatur	Jerome	KFPW 1210 100	KHSL 950 250
WMFO 1370 100	KCRJ 1310 100	Hot Springs	Del Monte
Dothan	Lowell	KTHS 1060 10000 N	KDON 1210 100
WAGF 1370 100	KSUN 1200 100	Jonesboro	El Centro
Gadsden	Phoenix	KBTM 1200 100	KXO 1500 100
WJBY 1210 100	KOY 1390 500	Little Rock	Eureka
Mobile	KTAR 620 1000 N	KARK 890 250	KIEM 1450 500
WALA 1380 500 C	Prescott	KGHI 1200 100	Fresno
Montgomery	KPJM 1500 100	KLRA 1390 1000 C	KMJ 580 1000 C
WSFA 1410 500 C	Tucson	Pine Bluff	Glendale
Selma	KGAR 1370 100	KOTN 1500 100	KIEV 850 100
WHBB 1500 100	KVOA 1260 500	Texarkana	Hollywood
Sheffield	Yuma	KCMC 1420 100	KFWB 950 1000
WNRA 1420 100	KUMA 1420 100	CALIFORNIA	KMTR 570 1000
ALASKA	ARKANSAS	Long Beach	KNX 1050 5000
Anchorage	Blytheville	Bakersfield	KROX 1250 1000
KFQD 780 250	KLCN 1290 100	KERN 1370 100 C	KGER 1360 1000
		W6XAI 1550 1000	Los Angeles
		Berkeley	KECA 1430 1000 N
		KRE 1370 100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KFAC	1300	1000
KFI	640	50000 N
KFSQ	1120	500
KFVD	1000	250
KGFJ	1200	100
KHJ	900	1000 C
KRKK	1120	500
KTM	780	500
Modesto		
KTRB	740	250
Oakland		
KLS	1440	250
KLX	880	1000
KROW	930	1000
Pasadena		
KPPC	1210	50
Sacramento		
KFBK	1490	5000 C
San Bernardino		
KFXM	1210	100
San Diego		
KPSD	600	1000 N
KGB	1330	1000 C
San Francisco		
KRRC	610	100 C
KGGC	1420	100
KGO	790	7500 N
KJBS	1070	500
KPO	680	50000 N
KSFO	560	1000
KYA	1230	1000 N

San Jose		
KQW	1010	1000
Santa Ana		
KREG	1500	100
Santa Barbara		
KDB	1500	100 C
Stockton		
KGDM	1100	1000
KWG	1200	100 C

COLORADO

Alamosa		
KGIW	1420	100
Colorado Springs		
KVOR	1270	1000 C
Denver		
KFEL	920	500
KLZ	560	1000 C
KGA	830	50000 N
KPOF	880	500
KVOD	920	500
Durango		
KIUP	1370	100
Grand Junction		
KFXJ	1200	100
Greeley		
KKA	880	500
Lamar		
KIDW	1420	100
Pueblo		
KGHF	1320	500
Sterling		
KGEC	1200	100

CONNECTICUT

Bridgeport		
WICG	600	500 C
Hartford		
WDRG	1330	100 C
WTIC	1040	50000 R
New Britain		
WNBC	1380	250
New Haven		
WELI	900	500
Storrs		
WCAC	600	500

Waterbury		
WATR	1190	100
WINBS	1530	1000

DELAWARE

Wilmington		
WDEL	1120	250
WILM	1420	100

DISTRICT OF COLUMBIA

Washington		
WJSV	1460	10000 C
WMAL	630	250 B
WOL	1310	100
WRC	950	500 R

FLORIDA

Clearwater		
WFLA	620	1000 N
Daytona Beach		
WMFJ	1420	100
Gainesville		
WRUF	830	5000
Jacksonville		
WJAX	900	1000 N
WMBR	1370	100 C
Lakeland		
.....	1310	100
Miami		
WIOD	1300	1000 N
WQAM	560	1000 C
Orlando		
WDBO	580	1000 C
Pensacola		
WCOA	1340	500 C
St. Petersburg		
WSUN	620	1000 N
Tallahassee		
WTAL	1310	100
Tampa		
WDAE	1220	1000 C
West Palm Beach		
.....	1200	100

GEORGIA

Albany		
WGPC	1420	100
Athens		
WTFI	1450	500
Atlanta		
WGST	890	500 C
WJTL	1370	100
WSB	740	50000 N
Augusta		
WRDW	1500	100
Columbus		
WRBI	1200	100
Griffin		
WKEU	1500	100
Macon		
WMAZ	1180	1000
Rome		
WRGA	1500	100
Savannah		
WTOG	1260	1000 C
Thomasville		
WPAX	1210	250

HAWAII

Hilo		
KHBC	1420	100
Honolulu		
KGBM	1320	1000 C
KGU	750	2500 N

IDAHO

Boise		
KIDO	1350	1000
Idaho Falls		
KID	1320	250
Lewiston		
KRLC	1420	100
Nampa		
KFXD	1200	100
Pocatello		
KSEI	900	250
Twin Falls		
KTFI	1240	1000

ILLINOIS

Bloomington		
WJBC	1200	100
Carthage		
WCAZ	1070	100
Chicago		
WAAF	920	1000
WBBM	770	50000 C
WCFL	970	5000 B
WCRW	1210	100
WEDC	1210	100
WENR	870	50000 N
WGES	1360	500
WGN	720	50000
WJJD	1130	20000
WLS	870	50000 N
WMAQ	670	50000 N
WMBI	1080	5000
WSBC	1210	100
Cicero		
WEHS	1420	100
WHFC	1420	100
WKBI	1420	100
Decatur		
WJBL	1200	100
East Dubuque		
WKBB	1500	100
East St. Louis		
WTMV	1500	100
Harrisburg		
WEBQ	1210	100
Joliet		
WCLS	1310	100
Peoria		
WMBD	1440	500 C
Quincy		
WTAD	900	500
Rockford		
WROK	1410	500
Rock Island		
WHBF	1210	100
Springfield		
WCBS	1420	100
WTAX	1210	100
Tuscola		
WDZ	1070	100
Urbana		
WILL	890	250
Waukegan		
WCBD	1080	5000

INDIANA

Anderson		
WHBU	1210	100
Elkhart		
WTRC	1310	100
Evansville		
WGFB	630	500
.....	1370	100
Fort Wayne		
WGL	1370	100 C
WOWO	1160	10000 C

Gary		
WIND	560	1000
Hammond		
WWAE	1200	100
Indianapolis		
WFBM	1230	1000 C
WIRE	1400	500 R
Muncie		
WLBC	1310	100
Richmond		
WKBV	1500	100
South Bend		
WFAM	1200	100
WSBT	1360	500 C
Terre Haute		
WBOW	1310	100
West Lafayette		
WBAA	890	1000

IOWA

Ames		
WOI	640	5000
Boone		
KFGQ	1370	100
Cedar Rapids		
WMT	600	1000 B
Council Bluffs		
KOIL	1260	1000 B
Davenport		
WOC	1370	100 C
Decorah		
KGCA	1270	100
KWLC	1270	100
Des Moines		
KRNT	1320	500 C
KSO	1430	500 B
WHO	1000	50000 R
Iowa City		
WSUI	880	500
Marshalltown		
KFJB	1200	100
Shenandoah		
KFNF	890	500
KMA	930	1000
Sioux City		
KSCJ	1330	1000 C

KANSAS

Abilene		
KFBI	1050	5000
Coffeyville		
KGGF	1010	1000
Dodge City		
KGNO	1340	250
Garden City		
KIUL	1210	100
Hutchinson		
KWBC	1420	100
Kansas City		
WLBK	1420	100
Lawrence		
KPKU	1220	1000
WREN	1220	100 B
Manhattan		
KSAC	580	500
Topeka		
WIBW	580	1000 C
Wichita		
KFH	1300	1000 C

KENTUCKY

Ashland		
WGMI	1310	100
Covington		
WCKY	1490	5000 B
Lexington		
WLAP	1420	100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Louisville WAVE 940 1000 N WHAS 820 50000 C</p> <p style="text-align: center;">Paducah</p> <p>WPAD 1420 100</p> <hr/> <p style="text-align: center;">LOUISIANA</p> <hr/> <p>Alexandria KALB 1420 100</p> <p>Baton Rouge WJBO 1420 100</p> <p>Lafayette KVOL 1310 100</p> <p>Lake Charles KPLC 1500 100</p> <p>Monroe KMLB 1200 100</p> <p>New Orleans WBNO 1200 100 WDSU 1250 1000 WJBW 1200 100 WSMB 1320 500 N WWL 850 10000 C</p> <p>Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 1000 C</p> <hr/> <p style="text-align: center;">MAINE</p> <hr/> <p>Augusta WRDO 1370 100</p> <p>Bangor WABI 1200 100 WLBZ 620 500 C</p> <p>Portland WCSH 940 1000 R</p> <p>Presque Isle WAGM 1420 100</p> <hr/> <p style="text-align: center;">MARYLAND</p> <hr/> <p>Baltimore WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R</p> <p>Cumberland WTBO 800 250</p> <p>Frederick WFMD 900 500</p> <p>Hagerstown WJEJ 1210 100</p> <hr/> <p style="text-align: center;">MASSACHUSETTS</p> <hr/> <p>Babson Park WBOS 920 500</p> <p>Boston WAAB 1410 500 C WBZ 990 50000 B WCOP 1120 500 WEI 590 1000 R WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 C</p> <p>Fall River WSAR 1450 1000</p> <p>Lowell WLH 1370 100</p> <p>New Bedford WNBH 1310 100 C</p> <p>Springfield WBZA 990 1000 B WMAS 1420 100 C</p> <p>Worcester WORC 1280 500 C WTAG 580 500 R</p>	<p style="text-align: center;">MICHIGAN</p> <hr/> <p>Battle Creek WELL 1420 100</p> <p>Bay City WBCM 1410 500</p> <p>Calumet WHDF 1370 100</p> <p>Detroit WJBK 1500 100 WJR 750 50000 C WMBC 1420 100 WWJ 920 1000 R WXYZ 1240 1000 B</p> <p>East Lansing WKAR 850 1000</p> <p>Flint WFEF 1310 100</p> <p>Grand Rapids WASH 1270 500 N WOOD 1270 500 N</p> <p>Ironwood WJMS 1420 100</p> <p>Jackson WIBM 1370 100</p> <p>Kalamazoo WKZO 590 1000</p> <p>Lansing WJIM 1210 100</p> <p>Lapeer WMPK 1200 100</p> <p>Marquette WBEO 1310 100</p> <p>Muskegon WKBZ 1500 100</p> <p>Royal Oak WEXL 1310 50</p> <hr/> <p style="text-align: center;">MINNESOTA</p> <hr/> <p>Fergus Falls KGDE 1200 100</p> <p>Hibbing WMFG 1210 100</p> <p>Minneapolis WCCO 810 50000 C WDGY 1180 1000 WLB 1250 1000 WTCN 1250 1000</p> <p>Moorhead KGFK 1500 100</p> <p>Northfield WCAL 1250 1000</p> <p>Rochester KROC 1310 100</p> <p>St. Paul KSTP 1460 25000 N</p> <p>Virginia 1370 100</p> <hr/> <p style="text-align: center;">MISSISSIPPI</p> <hr/> <p>Clarksdale WMFN 1210 100</p> <p>Gulfport WGCM 1210 100</p> <p>Hattiesburg WFPB 1370 100</p> <p>Jackson WJDX 1270 1000 N</p> <p>Kosciusko WHEF 1500 100</p> <p>Laurel WAML 1310 100</p> <p>Meridian WCOC 880 500</p> <p>Mississippi City WGCM 1120 500</p> <p>Viicksburg WQBC 1360 1000</p>	<p style="text-align: center;">MISSOURI</p> <hr/> <p>Cape Girardeau KFVS 1210 100</p> <p>Columbia KFRU 630 500</p> <p>Jefferson City WOS 630 500</p> <p>Joplin WMBH 1420 100</p> <p>Kansas City KMBC 950 1000 C KWKC 1370 100 WDAF 610 1000 R WHB 860 1000 W9XBY 1530 1000</p> <p>St. Joseph KFFO 680 2500</p> <p>St. Louis KFUP 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100</p> <p>Springfield KGBX 1230 500 KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <hr/> <p>Billings KGHL 780 1000 N</p> <p>Butte KGIR 1340 1000 N</p> <p>Great Falls KFBB 1280 1000</p> <p>Kallispeil KGEZ 1310 100</p> <p>Missoula KGVO 1260 1000</p> <p>Wolf Point KGCX 1310 100</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <hr/> <p>Klay Center KMMJ 740 1000</p> <p>Kearney KGFV 1310 100</p> <p>Lincoln KFAB 770 10000 C KFOR 1210 100 C</p> <p>Norfolk WJAG 1060 1000</p> <p>North Platte KGNF 1430 1000</p> <p>Omaha WAAW 660 500 WOW 590 1000 R</p> <p>Scottsbluff KGKY 1500 100</p> <p>York KGBZ 930 1000</p> <hr/> <p style="text-align: center;">NEVADA</p> <hr/> <p>Reno KOH 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <hr/> <p>Lacenaia WLNH 1310 100</p> <p>Manchester WFEA 1340 500 C</p> <p>Portsmouth WHEB 740 250</p>	<p style="text-align: center;">NEW JERSEY</p> <hr/> <p>Asbury Park WCAP 1280 500</p> <p>Atlantic City WPG 1100 5000 C</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAT 940 500 WHOM 1450 250</p> <p>Newark WHBI 1250 1000 WNEW 1250 1000 WOR 710 50000</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <hr/> <p>Albuquerque KGGM 1230 250 KOB 1180 10000</p> <p>Clevis KICA 1370 100</p> <p>Roswell KGEL 1370 100</p> <p>Santa Fe KIUJ 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <hr/> <p>Albany WABY 1370 100 WOKO 1430 500 C</p> <p>Auburn WMBO 1310 100</p> <p>Binghamton WNBZ 1500 100</p> <p>Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBO 1500 100 WVFW 1400 500</p> <p>Buffalo WBEN 900 1000 R WEBS 1310 100 WGR 550 1000 C WKBW 1480 5000 C WWSV 1370 50 WBNY 1370 100</p> <p>Canton WCAD 1220 500</p> <p>Chester WGNV 1210 100</p> <p>Etmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WOCL 1210 50</p> <p>Long Island City W2XR 1550 1000</p> <p>New York WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WBAF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

WJZ	760	50000 B
WLWL	1100	5000
WMCA	570	500
WNYC	810	1000
WOV	1130	1000
Olean		
WHDL	1420	100
Plattsburg		
WMFF	1310	100
Rochester		
WHAM	1150	50000 B
WHEG	1430	500 C
WSAY	1210	100
Saranac Lake		
WNBZ	1290	100
Schenectady		
WGY	790	50000 R
Syracuse		
WFBL	1360	1000 C
WHSR	570	250 B
Troy		
WHAZ	1300	500
Utica		
WIBX	1200	100 C
White Plains		
WFAS	1210	100
Woodside		
WWRL	1500	100

NORTH CAROLINA

Asheville		
WWNC	570	1000 N
Charlotte		
WBT	1080	50000 C
WSOC	1210	100 N
Durham		
WDNC	1500	100 C
Gastonia		
WIBR	1420	100
Greensboro		
WGIG	1440	500 C
High Point		
WMFR	1200	100
Raleigh		
WPTF	680	5000 N
Rocky Mount		
WEED	1420	100
Wilmington		
WMFD	1370	100
Winston-Salem		
WSJS	1310	100 C

NORTH DAKOTA

Bismarck		
KFYR	550	1000 N
Devils Lake		
KDLR	1210	100
Fargo		
WDAY	940	1000
Grand Forks		
KFJM	1370	100
Mandan		
KGCC	1240	250
Minot		
KLPM	1240	250
Valley City		
.....	1500	100

OHIO

Akron		
WADC	1320	1000 C
WJW	1210	100
Canton		
WHBC	1200	100
Cincinnati		
WCPO	1200	100

WKRC	550	1000 C
WLW	700	50000 N
WASI	1330	1000 R
Cleveland		
WGAR	1450	500 B
WHK	1390	1000 C
WJAY	610	500
WTAM	1070	50000 R
Columbus		
WAIU	640	500
WBNS	1430	500 C
WCOL	1210	100
WOSU	570	750
Dayton		
WHIO	1260	1000 R
WSMK	1380	200 C
Portsmouth		
WPAY	1370	100
Toledo		
WSPD	1340	1000 C
Youngstown		
WKBN	570	500 C
Zanesville		
WALR	1210	100

OKLAHOMA

Ada		
KADA	1210	100
Ardmore		
KVSO	1200	100
Elk City		
KASA	1210	100
Enid		
KCRC	1360	250
Norman		
WNAD	1010	1000
Oklahoma		
KFXR	1310	100
KGFG	1370	100
KOMA	1480	5000 C
WKY	900	1000 N
Ponca City		
WBBZ	1200	100
Shawnee		
KGFF	1420	100
Tulsa		
KTUL	1400	500 C
KVOO	1140	25000 N

OREGON

Astoria		
KAST	1370	100
Corvallis		
KOAC	550	1000
Eugene		
KORE	1420	100
Klamath Falls		
KFJI	1210	100
Marshfield		
KOOS	1390	250
Medford		
KMED	1310	100
Portland		
KALE	1300	500 C
KBPS	1420	100
KEX	1180	5000 N
KFJR	1300	500
KGW	620	1000 N
KOIN	940	1000 C
KVJJ	1040	500
KXL	1420	100
Roseburg		
KRNR	1500	100
Salem		
KSLM	1370	100

PENNSYLVANIA

Allentown		
WCBA	1440	500

WSAN	1440	500
Altoona		
WFBC	1310	100
Easton		
WEST	1200	100
Erie		
WLEU	1420	100
Glenside		
WIBC	970	100
Greensburg		
WHJB	620	250
Greve City		
WSAJ	1310	100
Harrisburg		
WHP	1430	500 C
WKBO	1200	100
Hazleton		
WAZL	1420	100
Johnstown		
WJAC	1310	100
Lancaster		
WGAL	1500	100
Philadelphia		
KYW	1020	10000 R
WCAU	1170	50000 C
WDAS	1370	100
WFIL	560	1000 B
WHAT	1310	100
WIP	610	1000
WPEN	920	250
WRAX	920	250
WTEL	1310	100
Pittsburgh		
KDKA	980	50000 B
KOV	1380	500
WCAE	1220	1000 R
WJAS	1290	1000 C
WWSW	1500	100
Reading		
WEEU	830	1000
WRAW	1310	100
Scranton		
WGBI	880	500
WQAN	880	250
Sunbury		
WKOK	1210	100
Wilkes-Barre		
WBAX	1210	100
WBR	1310	100
Williamsport		
WRAK	1370	100
York		
WORK	1320	1000

PUERTO RICO

Ponce		
WPRP	1420	100
San Juan		
WKAO	1240	1000
WNEL	1290	500

RHODE ISLAND

Newport		
WNRI	1200	100
Providence		
WEAN	780	500 C
WJAR	890	500 R
WPRO	630	250

SOUTH CAROLINA

Anderson		
WAIM	1200	100
Charleston		
WCSC	1360	500
Columbia		
WIS	1010	50 N

Greenville		
WFBC	1300	1000
Spartanburg		
WSPA	920	1000

SOUTH DAKOTA

Abberdeen		
KABR	1420	100
Brookings		
KFDY	780	1000
Huron		
KGDY	1340	250
Pierre		
KGFX	630	200
Rapid City		
WGAT	1200	100
Sioux Falls		
KSOO	1110	2500
Vermillion		
KUSD	890	500
Watertown		
KWTN	1210	100
Yankton		
WNAX	570	1000 C

TENNESSEE

Bristol		
WOPI	1500	100
Chattanooga		
WDDO	1280	1000 C
Jackson		
WTJS	1310	100
Knoxville		
WNOX	560	1000 C
WROL	1310	100
Memphis		
WHBO	1370	100
WMC	780	1000 N
WNNR	1430	500
WREC	600	1000 C
Nashville		
WLAC	1470	5000 C
WSM	650	50000 N
Springfield		
WSIX	1210	100

TEXAS

Amarillo		
KGNC	1410	1000
Austin		
KNOV	1500	100
Beaumont		
KFDM	560	500
Brady		
KNEL	1500	100
College Station		
WTAW	1120	500
Corpus Christi		
KGFI	1500	100
Dallas		
KRLD	1040	10000 C
WFAA	800	50000 N
WRR	1280	500
Dublin		
KFPL	1310	100
El Paso		
KTSM	1310	100
WDAH	1310	100
Fort Worth		
KFJZ	1370	100
KTAT	1240	1000
WBAP	800	50000 N
Galveston		
KLUF	1370	100
Houston		
KPRC	920	1000 N

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>KTRH 1290</td><td>1000 C</td></tr> <tr><td>KXYZ 1440</td><td>1000</td></tr> <tr><td colspan="2">Longview</td></tr> <tr><td>KFRO 1370</td><td>100</td></tr> <tr><td colspan="2">Lubbock</td></tr> <tr><td>KFYD 1310</td><td>100</td></tr> <tr><td colspan="2">Midland</td></tr> <tr><td>KRHL 1420</td><td>100</td></tr> <tr><td colspan="2">Palestine</td></tr> <tr><td>KNET 1420</td><td>100</td></tr> <tr><td colspan="2">Pampa</td></tr> <tr><td>.....</td><td>1310</td></tr> <tr><td colspan="2">Pecos</td></tr> <tr><td>KIUN 1420</td><td>100</td></tr> <tr><td colspan="2">Port Arthur</td></tr> <tr><td>KPAC 1260</td><td>500</td></tr> <tr><td colspan="2">San Angelo</td></tr> <tr><td>KGKL 1370</td><td>100</td></tr> <tr><td colspan="2">San Antonio</td></tr> <tr><td>KABC 1420</td><td>100</td></tr> <tr><td>KMAC 1370</td><td>100</td></tr> <tr><td>KONO 1370</td><td>100</td></tr> <tr><td>KTSA 550</td><td>1000 C</td></tr> <tr><td>WAOI 1190</td><td>5000 N</td></tr> <tr><td colspan="2">Tyler</td></tr> <tr><td>KGKB 1500</td><td>100</td></tr> <tr><td colspan="2">Waco</td></tr> <tr><td>WACO 1420</td><td>100 C</td></tr> <tr><td colspan="2">Weslaco</td></tr> <tr><td>KRGV 1260</td><td>500</td></tr> <tr><td colspan="2">Wichita Falls</td></tr> <tr><td>KGKO 570</td><td>250 C</td></tr> <tr><td colspan="2">UTAH</td></tr> <tr><td colspan="2">Ogden</td></tr> <tr><td>KLO 1400</td><td>500</td></tr> <tr><td colspan="2">Salt Lake City</td></tr> <tr><td>KDYL 1290</td><td>1000 N</td></tr> <tr><td>KSL 1130</td><td>5000 C</td></tr> <tr><td colspan="2">VERMONT</td></tr> <tr><td colspan="2">Burlington</td></tr> <tr><td>WCAX 1200</td><td>100</td></tr> <tr><td colspan="2">Rutland</td></tr> <tr><td>WSYB 1500</td><td>100</td></tr> <tr><td colspan="2">St. Albans</td></tr> <tr><td>WODM 1370</td><td>100</td></tr> <tr><td colspan="2">Springfield</td></tr> <tr><td>WNBX 1260</td><td>100</td></tr> <tr><td colspan="2">Waterbury</td></tr> <tr><td>WDEV 550</td><td>500</td></tr> <tr><td colspan="2">VIRGINIA</td></tr> <tr><td colspan="2">Arlington</td></tr> <tr><td>NAA 690</td><td>1000</td></tr> <tr><td colspan="2">Charlottesville</td></tr> <tr><td>WEHC 1420</td><td>100</td></tr> <tr><td colspan="2">Danville</td></tr> <tr><td>WBTM 1370</td><td>100</td></tr> <tr><td colspan="2">Harrisonburg</td></tr> <tr><td>WSVA 550</td><td>500</td></tr> <tr><td colspan="2">Lynchburg</td></tr> <tr><td>WLVA 1200</td><td>100</td></tr> <tr><td colspan="2">Newport News</td></tr> <tr><td>WGH 1310</td><td>100</td></tr> <tr><td colspan="2">Norfolk</td></tr> <tr><td>WTAR 780</td><td>500 N</td></tr> <tr><td colspan="2">Petersburg</td></tr> <tr><td>WPHR 880</td><td>500</td></tr> <tr><td colspan="2">Richmond</td></tr> <tr><td>WBBL 1210</td><td>100</td></tr> <tr><td>WMBG 1210</td><td>100 C</td></tr> <tr><td>WRVA 1110</td><td>5000 N</td></tr> <tr><td colspan="2">Roanoke</td></tr> <tr><td>WDBJ 930</td><td>1000 C</td></tr> </table>	KTRH 1290	1000 C	KXYZ 1440	1000	Longview		KFRO 1370	100	Lubbock		KFYD 1310	100	Midland		KRHL 1420	100	Palestine		KNET 1420	100	Pampa		1310	Pecos		KIUN 1420	100	Port Arthur		KPAC 1260	500	San Angelo		KGKL 1370	100	San Antonio		KABC 1420	100	KMAC 1370	100	KONO 1370	100	KTSA 550	1000 C	WAOI 1190	5000 N	Tyler		KGKB 1500	100	Waco		WACO 1420	100 C	Weslaco		KRGV 1260	500	Wichita Falls		KGKO 570	250 C	UTAH		Ogden		KLO 1400	500	Salt Lake City		KDYL 1290	1000 N	KSL 1130	5000 C	VERMONT		Burlington		WCAX 1200	100	Rutland		WSYB 1500	100	St. Albans		WODM 1370	100	Springfield		WNBX 1260	100	Waterbury		WDEV 550	500	VIRGINIA		Arlington		NAA 690	1000	Charlottesville		WEHC 1420	100	Danville		WBTM 1370	100	Harrisonburg		WSVA 550	500	Lynchburg		WLVA 1200	100	Newport News		WGH 1310	100	Norfolk		WTAR 780	500 N	Petersburg		WPHR 880	500	Richmond		WBBL 1210	100	WMBG 1210	100 C	WRVA 1110	5000 N	Roanoke		WDBJ 930	1000 C	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">WASHINGTON</td></tr> <tr><td colspan="2" style="text-align: center;">Aberdeen</td></tr> <tr><td>KXRO 1310</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Bellingham</td></tr> <tr><td>KVOS 1200</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Everett</td></tr> <tr><td>KRKO 1370</td><td>50</td></tr> <tr><td colspan="2" style="text-align: center;">Olympia</td></tr> <tr><td>KGY 1210</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Pullman</td></tr> <tr><td>KWSC 1220</td><td>1000</td></tr> <tr><td colspan="2" style="text-align: center;">Seattle</td></tr> <tr><td>KIRO 710</td><td>500</td></tr> <tr><td>KJR 970</td><td>5000 N</td></tr> <tr><td>KOL 1270</td><td>1000 C</td></tr> <tr><td>KOMO 920</td><td>1000 N</td></tr> <tr><td>KRSC 1120</td><td>100</td></tr> <tr><td>KTW 1220</td><td>1000</td></tr> <tr><td>KVL 1370</td><td>100</td></tr> <tr><td>KXA 760</td><td>250</td></tr> <tr><td colspan="2" style="text-align: center;">Spokane</td></tr> <tr><td>KFIO 1120</td><td>100</td></tr> <tr><td>KFPY 890</td><td>1000 C</td></tr> <tr><td>KGA 1470</td><td>5000 N</td></tr> <tr><td>KHO 590</td><td>1000 N</td></tr> <tr><td colspan="2" style="text-align: center;">Tacoma</td></tr> <tr><td>KMO 1330</td><td>250</td></tr> <tr><td>KVI 570</td><td>1000 C</td></tr> <tr><td colspan="2" style="text-align: center;">Walla Walla</td></tr> <tr><td>KUJ 1370</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Wenatchee</td></tr> <tr><td>KPO 1500</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Yakima</td></tr> <tr><td>KIT 1310</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">WEST VIRGINIA</td></tr> <tr><td colspan="2" style="text-align: center;">Bluefield</td></tr> <tr><td>WHIS 1410</td><td>250</td></tr> <tr><td colspan="2" style="text-align: center;">Charleston</td></tr> <tr><td>WCHS 580</td><td>500</td></tr> <tr><td colspan="2" style="text-align: center;">Fairmont</td></tr> <tr><td>WMNM 890</td><td>500</td></tr> <tr><td colspan="2" style="text-align: center;">Huntington</td></tr> <tr><td>WSAZ 1190</td><td>1000</td></tr> <tr><td colspan="2" style="text-align: center;">Parkersburg</td></tr> <tr><td>WPAK 1420</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Wheeling</td></tr> <tr><td>WWVA 1160</td><td>5000 C</td></tr> <tr><td colspan="2" style="text-align: center;">WISCONSIN</td></tr> <tr><td colspan="2" style="text-align: center;">Eau Claire</td></tr> <tr><td>WTAQ 1330</td><td>1000</td></tr> <tr><td colspan="2" style="text-align: center;">Fond du Lac</td></tr> <tr><td>KFIZ 1420</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Green Bay</td></tr> <tr><td>WBHY 1200</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Janesville</td></tr> <tr><td>WCLO 1200</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">LaCrosse</td></tr> <tr><td>WKBB 1380</td><td>1000</td></tr> <tr><td colspan="2" style="text-align: center;">Madison</td></tr> <tr><td>WHA 940</td><td>1000</td></tr> <tr><td>WIBA 1280</td><td>1000 N</td></tr> <tr><td colspan="2" style="text-align: center;">Manitowoc</td></tr> <tr><td>WOMT 1210</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Milwaukee</td></tr> <tr><td>WEMP 1310</td><td>100</td></tr> <tr><td>WISN 1120</td><td>250 C</td></tr> <tr><td>WTMJ 620</td><td>1000 N</td></tr> <tr><td colspan="2" style="text-align: center;">Poyntette</td></tr> <tr><td>WIBU 1210</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Racine</td></tr> <tr><td>WRJN 1370</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Sheboygan</td></tr> <tr><td>WHBL 1410</td><td>500</td></tr> </table>	WASHINGTON		Aberdeen		KXRO 1310	100	Bellingham		KVOS 1200	100	Everett		KRKO 1370	50	Olympia		KGY 1210	100	Pullman		KWSC 1220	1000	Seattle		KIRO 710	500	KJR 970	5000 N	KOL 1270	1000 C	KOMO 920	1000 N	KRSC 1120	100	KTW 1220	1000	KVL 1370	100	KXA 760	250	Spokane		KFIO 1120	100	KFPY 890	1000 C	KGA 1470	5000 N	KHO 590	1000 N	Tacoma		KMO 1330	250	KVI 570	1000 C	Walla Walla		KUJ 1370	100	Wenatchee		KPO 1500	100	Yakima		KIT 1310	100	WEST VIRGINIA		Bluefield		WHIS 1410	250	Charleston		WCHS 580	500	Fairmont		WMNM 890	500	Huntington		WSAZ 1190	1000	Parkersburg		WPAK 1420	100	Wheeling		WWVA 1160	5000 C	WISCONSIN		Eau Claire		WTAQ 1330	1000	Fond du Lac		KFIZ 1420	100	Green Bay		WBHY 1200	100	Janesville		WCLO 1200	100	LaCrosse		WKBB 1380	1000	Madison		WHA 940	1000	WIBA 1280	1000 N	Manitowoc		WOMT 1210	100	Milwaukee		WEMP 1310	100	WISN 1120	250 C	WTMJ 620	1000 N	Poyntette		WIBU 1210	100	Racine		WRJN 1370	100	Sheboygan		WHBL 1410	500	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">Stevens Point</td></tr> <tr><td>WLBL 900</td><td>2500</td></tr> <tr><td colspan="2" style="text-align: center;">Superior</td></tr> <tr><td>WIBC 1290</td><td>1000 N</td></tr> <tr><td colspan="2" style="text-align: center;">WYOMING</td></tr> <tr><td colspan="2" style="text-align: center;">Casper</td></tr> <tr><td>KDFN 1440</td><td>500</td></tr> <tr><td colspan="2" style="text-align: center;">Sheridan</td></tr> <tr><td>KWYO 1370</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">CANADA</td></tr> <tr><td colspan="2" style="text-align: center;">ALBERTA</td></tr> <tr><td colspan="2" style="text-align: center;">Calgary</td></tr> <tr><td>CFAC 930</td><td>100 F</td></tr> <tr><td>CFCN 1030</td><td>10000</td></tr> <tr><td>CJGJ 690</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Edmonton</td></tr> <tr><td>CFRN 1260</td><td>100 F</td></tr> <tr><td>CJCA 730</td><td>1000 F</td></tr> <tr><td>CKUA 580</td><td>500</td></tr> <tr><td colspan="2" style="text-align: center;">Lethridge</td></tr> <tr><td>CJOC 1230</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">BRITISH COLUMBIA</td></tr> <tr><td colspan="2" style="text-align: center;">Chilliwack</td></tr> <tr><td>CHWK 780</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Kamloops</td></tr> <tr><td>CFJC 880</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Kelowna</td></tr> <tr><td>CKOV 630</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Prince Rupert</td></tr> <tr><td>CFPR 580</td><td>50</td></tr> <tr><td colspan="2" style="text-align: center;">Trail</td></tr> <tr><td>CJAT 910</td><td>250 F</td></tr> <tr><td colspan="2" style="text-align: center;">Vancouver</td></tr> <tr><td>CJOR 600</td><td>500</td></tr> <tr><td>CKCD 1010</td><td>100</td></tr> <tr><td>CKFK 1410</td><td>50</td></tr> <tr><td>CKMO 1410</td><td>100 F</td></tr> <tr><td>CKWX 1010</td><td>100 F</td></tr> <tr><td>CRCV 1100</td><td>500 F</td></tr> <tr><td colspan="2" style="text-align: center;">Victoria</td></tr> <tr><td>CFCT 1450</td><td>75</td></tr> <tr><td colspan="2" style="text-align: center;">MANITOBA</td></tr> <tr><td colspan="2" style="text-align: center;">Brandon</td></tr> <tr><td>CKX 1120</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Winnipeg</td></tr> <tr><td>CJRC 580</td><td>100 F</td></tr> <tr><td>CKY 960</td><td>1500 F</td></tr> <tr><td colspan="2" style="text-align: center;">NEW BRUNSWICK</td></tr> <tr><td colspan="2" style="text-align: center;">Fredericton</td></tr> <tr><td>CFNB 550</td><td>500 F</td></tr> <tr><td colspan="2" style="text-align: center;">Moncton</td></tr> <tr><td>CKGW 1370</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">St. John</td></tr> <tr><td>CHSJ 1120</td><td>500 F</td></tr> <tr><td colspan="2" style="text-align: center;">N. 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W. TERRITORY		Aklavik		CJCU 1210	50	NOVA SCOTIA		Glace Bay		VAS 685	2000	Halifax		CHNS 930	1000 F	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">Sydney</td></tr> <tr><td>CJGB 1240</td><td>1000 F</td></tr> <tr><td colspan="2" style="text-align: center;">Wolfville</td></tr> <tr><td>CKIK 1010</td><td>50</td></tr> <tr><td colspan="2" style="text-align: center;">Yarmouth</td></tr> <tr><td>CJLS 1310</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">ONTARIO</td></tr> <tr><td colspan="2" style="text-align: center;">Brantford</td></tr> <tr><td>CKPC 930</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Chatham</td></tr> <tr><td>CFCO 630</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Cobalt</td></tr> <tr><td>CKMC 1210</td><td>50</td></tr> <tr><td colspan="2" style="text-align: center;">Fort William</td></tr> <tr><td>CKPR 930</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Hamilton</td></tr> <tr><td>CHML 1010</td><td>100 F</td></tr> <tr><td>CKOK 1120</td><td>500 F</td></tr> <tr><td colspan="2" style="text-align: center;">Kingston</td></tr> <tr><td>CFRC 1510</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">Kirkland Lake</td></tr> <tr><td>CJKL 530</td><td>1000</td></tr> <tr><td colspan="2" style="text-align: center;">London</td></tr> <tr><td>CFPL 730</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">North Bay</td></tr> <tr><td>CFCH 930</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Ottawa</td></tr> <tr><td>CKCO 1010</td><td>100 F</td></tr> <tr><td>CRCO 880</td><td>1000 F</td></tr> <tr><td colspan="2" style="text-align: center;">Prescott</td></tr> <tr><td>CFLC 930</td><td>100</td></tr> <tr><td colspan="2" style="text-align: center;">St. Catharines</td></tr> <tr><td>CKTB 1200</td><td>100 F</td></tr> <tr><td colspan="2" style="text-align: center;">Sault Ste. 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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

New Carlisle		
CHNC	1410	500 F
Quebec		
CHRC	580	100 F
CKCV	1310	100 F
CKCK	1010	1000 F

SASKATCHEWAN

Moose Jaw		
CHAB	1200	100 F
CJRM	540	1000 F
Prince Albert		
CKBI	1210	100 F
Regina		
CHWC	1010	500 F
CKKK	1010	500 F

Saskatoon		
CFQC	840	1000 F
Yorkton		
CJGX	630	500 F

NEWFOUNDLAND

St. John's		
VOAC	1065	40
VOAS	940	100
VOGY	840	400
VONF	1195	500
VOWR	681	500

MIQUELON

St. Pierre		
FQN	609	250

CENTRAL AMERICA

COSTA RICA

Cartago		
TIFS	1441	7.5
TIGA	1014	30
San Jose		
TIEP	850	500
TIFA	1050	75
TIRH	1000	500
TIRH	930	50

GUATEMALA

Guatemala City		
TGW	1210	10000
TGX	1400	250

HONDURAS

Tegucigalpa		
HRN	1270	100

NICARAGUA

Managua		
YNLF	1275	20
YNOP	1230	100
YNVA	950	30

PANAMA

Colon		
HP50	1440	25

EL SALVADOR

San Salvador		
RDN	680	500

MEXICO

AGUASCALIENTES

Aguascalientes		
XFA	1310	5
XFC	810	350

CHIHUAHUA

Chihuahua		
XEFI	1440	250
Juarez		
XEFV	1210	100
XEJ	1020	1000

COAHUILA

Piedras Negras		
XELO	1110	10000
XEPN	590	50000
Saltillo		
XEAS	1160	100
XEOX	640	500
Torreón		
XETB	1310	125
Villa Acuna		
XERA	840	250000

D. F.

Mexico City		
XEAI	1240	100
XEB	1030	10000
XEGW	1310	10
XEFA	1180	500
XEFO	940	5000
XEFZ	1370	100
XEK	990	100
XEL	1100	250
XEMX	1280	12
XEN	710	1000
XEP	840	500
XETW	820	500
XEWZ	890	50000
XEWZ	1150	100
XEYZ	780	10000
XFX	610	1000

DURANGO

Durango		
XEE	1210	50

GUANJUATO

Guanajuato		
XEAZ	1420	7
Leon		
XEKL	1240	500

JALISCO

Guadalajara		
XEA	1060	500
XED	1155	2500

LOWER CALIFORNIA

Ensenada		
XEG	1270	200
Mexicali		
XEAA	920	200
XEAO	560	250

Tijuana		
XEC	1160	30
XEPL	1150	500
XEMO	860	5000

~~XEQ 1030~~

XEMZ	1210	250
XEOK	760	250

MICHOACAN

Morelia		
XEI	1370	125

NUEVO LEON

Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125

OAXACA

Oaxaca		
XEAJ	1310	15

PUEBLA

Puebla		
XETH	1210	100

SAN LUIS POTOSI

San Luis Potosi		
XEZZ	1370	100

SONORA

Nogales		
XEAF	990	500

TAMAULIPAS

Matamoros		
XEAM	750	7.5
Nuevo Laredo		
XEFE	850	250
XENT	910	65000
Reynosa		
XEAW	960	50000
Tampico		
XEFW	1310	250
XEMA	1080	50
XES	990	250

VERACRUZ

Jalapa		
XFB	1270	250
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250

YUCATAN

Merida		
XEFC	560	100
XEV	1000	10
XEZ	630	500

WEST INDIES

CUBA

Caibarien		
CMHD	1270	250

Camaguey		
CMJA	1010	300
CMJC	1390	150
CMJE	1220	50
CMJF	1150	200

CMJK	780	250
CMJL	1340	100
CMJP	1430	100

Cardenas		
CMGE	1370	50
Ciego de Avila		
CMJH	1360	100
CMJI	1130	50
CMJO	1180	50

Cienfuegos		
CMHJ	1160	100
CMHW	810	100
CMIX	760	500

Cruces		
CMHK	1330	250

Havana		
CMBC	940	500
CMBD	1170	150
CMBG	1140	200
CMBN	880	150
CMBS	770	150
CMBX	1380	500
CMBY	640	150
CMCZ	1000	250
CMCA	1350	250
CMCB	1230	150
CMCD	930	450

CMCF	815	250
CMCG	1255	250
CMCJ	1200	350
CMCN	1500	150
CMCO	1110	250

CMCO	680	250
CMCR	1410	150
CMCU	1280	150
CMCW	750	150
CMCX	660	150
CMCY	1030	1000
CMK	1060	250
CMOA	790	150
CMOK	1470	150
CMOX	1320	250
CMQ	800	500
CMW	600	1000
CMX	920	650

Holguin		
CMKF	1460	50
Manzanillo		
CMKM	1120	200

Matanzas		
CMGK	1400	100
CMGF	1120	100
CMGI	1420	50

Sagua la Grande		
CMHA	1070	50
Sancti Spiritus		
CMHB	1240	50

Santa Clara		
CMHI	1210	150

Santiago		
CMKC	1250	150
CMKD	1050	250
CMKR	1400	100
CMKV	1190	50

DOMINICAN REPUBLIC

San Pedro de Macoris		
HHH	1395	15

Santo Domingo		
HIJ	1195	15
HIX	800	700
HIZ	1300	10

HAITI

Port-au-Prince		
HHK	920	1000

NORTH AMERICAN B. C. STATIONS BY CALLS

✓	CFAC 930	100	✓	CJLS 1310	100		CMBS 770	150
	Calgary, Alta.			Yarmouth, N. S.		✓	Havana, Cuba	
	CFCF 600	400		CJOC 1230	100	✓	CMBX 1380	500
	Montreal, Que.			Lethbridge, Alta.			Havana, Cuba	
	CFCH 930	100		CJOR 600	500	✓	CMBY 640	150
	North Bay, Ont.			Vancouver, B. C.			Havana, Cuba	
	CFCN 1030	10000		CJRC 580	100		CMBZ 1000	250
	Calgary, Alta.			Winnipeg, Man.			Havana, Cuba	
✓	CFCO 630	100		CJRM 540	1000		CMCA 1350	250
	Chatham, Ont.			Moose Jaw, Sask.			Havana, Cuba	
	CFCT 1450	75	✓	CKAC 730	5000		CMCB 1230	150
	Victoria, B. C.			Montreal, Que.			Havana, Cuba	
	CFCY 630	1000		CKBI 1210	100	✓	CMCD 986	250
	Charlottetown, P. E. I.			Prince Albert, Sask.			Havana, Cuba	945
	CFJC 880	100		CKCD 1010	100	✓	CMCF 815	250
	Kamloops, B. C.			Vancouver, B. C.			Havana, Cuba	
	CFLC 930	100		CKCH 1210	100		CMCG 1255	250
	Prescott, Ont.			Hull, Que.			Havana, Cuba	
✓	CFNB 550	500		CKCK 1010	500		CMCJ 1200	350
	Fredericton, N. B.			Regina, Sask.			Havana, Cuba	
✓	CFPL 730	100	✓	CKCL 580	100		CMCN 1500	150
	London, Ont.			Toronto, Ont.			Havana, Cuba	
	CFPR 580	50		CKCO 1010	100		CMCO 1110	250
	Prince Rupert, B. C.			Ottawa, Ont.			Havana, Cuba	
	CFQC 840	1000	✓	CKCR 1510	100		CMCQ 680	250
	Saskatoon, Sask.			Waterloo, Ont.			Havana, Cuba	
✓	CFRB 690	10000		CKCV 1310	100		CMCR 1410	150
	Toronto, Ont.			Quebec, Que.			Havana, Cuba	
	CFRC 1510	100		CKCW 1370	100		CMCU 1280	150
	Kingston, Ont.			Moncton, N. B.			Havana, Cuba	
	CFRN 1260	100		CKFC 1410	50		CMCW 750	150
	Edmonton, Alta.			Vancouver, B. C.			Havana, Cuba	
	CHAB 1200	100		CKGB 1420	100		CMCX 660	150
	Moose Jaw, Sask.			Timmins, Ont.			Havana, Cuba	
	CHCK 1310	50		CKIC 1010	50	✓	CMCY 1030	1000
	Charlottetown, P. E. I.			Wolfville, N. S.			Havana, Cuba	
	CHGS 1450	50	✓	CKLV 1030	5000		CMCG 1400	100
	Summerside, P. E. I.			Windsor, Ont.			Matanzas, Cuba	
	CHLP 1120	100		CKMC 1210	50		CMGE 1370	50
	Montreal, Que.			Cobalt, Ont.			Cardenas, Cuba	
✓	CHML 1010	100		CKMO 1410	100		CMGF 1120	100
	Hamilton, Ont.			Vancouver, B. C.			Matanzas, Cuba	
	CHNC 1410	500	✓	CKNX 1200	50		CMGI 1420	50
	New Carlisle, Que.			Wingham, Ont.			Matanzas, Cuba	
✓	CHNS 930	1600	✓	CKOC 1120	500		CMHA 1070	50
	Hallifax, N. S.			Hamilton, Ont.			Sagua la Grande, Cu.	
✓	CHRC 580	100		CKOV 630	100		CMHB 1240	50
	Quebec, Que.			Kelowna, B. C.			Sancti Spiritus, Cuba	
	CHSJ 1120	500	✓	CKPC 930	100		CMHD 1270	250
	St. John, N. B.			Brantford, Ont.			Caibarien, Cuba	
	CHWC 1010	500	✓	CKPR 980	100		CMHI 1210	150
	Regina, Sask.			Fort William, Ont.			Santa Clara, Cuba	
	CHWK 780	100	✓	CKSO 780	1000		CMHJ 1160	100
	Chilliwack, B. C.			Sudbury, Ont.			Cienfuegos, Cuba	
	CJAT 910	250	✓	CKTB 1200	100		CMHK 1330	250
	Trail, B. C.			St. Catharines, Ont.			Cruces, Cuba	
	CJCA 730	1900		CKUA 580	500		CMHW 810	100
	Edmonton, Alta.			Edmonton, Alta.			Cienfuegos, Cuba	
	CJCB 1240	1000		CKWX 1010	700	✓	CMHX 760	500
	Sydney, N. S.			Vancouver, B. C.			Cienfuegos, Cuba	
	CJ CJ 690	100		CKX 1120	100		CMJA 1010	300
	Calgary, Alta.			Brandon, Man.			Camaguey, Cuba	
	CJCS 1240	50	✓	CKY 960	15000		CMJC 1390	150
	Stratford, Ont.			Winnipeg, Man.			Camaguey, Cuba	
	CJCU 1210	50	✓	CMBC 940	500		CMJE 1220	50
	Aklavik, N. W. T.			Havana, Cuba			Camaguey, Cuba	
	CJGX 630	500	✓	CMBD 1170	150		CMJF 1150	200
	Yorktown, Sask.			Havana, Cuba			Camaguey, Cuba	
	CJIC 1500	100		CMBG 1140	200		CMJH 1360	100
	S. Ete. Marie, Ont.			Havana, Cuba			Ciego de Avila, Cuba	
	CJKL 530	1000	✓	CMBN 880	150		CMJI 1130	50
	Kirkland Lake, Ont.			Havana, Cuba			Ciego de Avila, Cuba	

NORTH AMERICAN B. C. STATIONS BY CALLS

	CMJK 780	250		KALE 1300	500		KFJM 1370	10 0
	Camaguey, Cuba			Portland, Ore.			Grand Forks, N. D.	
	CMJL 1340	100		KARK 890	250		KFJR 1300	500
	Camaguey, Cuba			Little Rock, Ark.			Portland, Ore.	
	CMJO 1180	50		KASA 1210	100		KFJZ 1370	100
	Ciego de Avila, Cuba			Eik City, Okla.			Fort Worth, Texas	
	CMJP 1430	100		KAST 1370	100		KFFA 880	500
	Camaguey, Cuba			Astoria, Ore.			Greeley, Colo.	
	CMK 1060	250		KBPS 1420	100		KFKU 1220	1000
	Havana, Cuba			Portland, Ore.			Lawrence, Kans.	
	CMKC 1250	150		KBTM 1200	100	✓	KFNF 890	500
	Santiago, Cuba			Jonesboro, Ark.			Shenandoah, Iowa	
	CMKD 1050	250		KCKM 1420	100		KFOR 1210	100
	Santiago, Cuba			Texarkana, Ark.			Lincoln, Neb.	
	CMKF 1460	50		KCRC 1360	250	✓	KFOX 1250	1000
	Holguin, Cuba			Enid, Okla.			Long Beach, Calif.	
	CMKM 1120	200		KCRJ 1310	100	✓	KFPL 1310	100
	Manzanillo, Cuba			Jerome, Ariz.			Dublin, Texas	
	CMKR 1400	100		KDB 1500	100		KFPW 1210	100
	Santiago, Cuba			Santa Barbara, Calif.			Fort Smith, Ark.	
	CMKV 1190	50		KDFN 1440	500		KFPY 890	1000
	Santiago, Cuba			Casper, Wyo.			Spokane, Wash.	
	CMOA 790	150	✓	KDKA 980	50000		KQD 780	250
	Havana, Cuba			Pittsburgh, Pa.			Anchorage, Alaska	
	CMOK 1470	150		KDLR 1210	100	✓	KFRG 610	1000
	Havana, Cuba			Devils Lake, N. D.			San Francisco, Calif.	
	CMOX 1320	250		KDON 1210	100		KFRQ 1370	100
	Havana, Cuba			Del Monte, Calif.			Longview, Texas	
✓	CMQ 840	500	880	KDYL 1290	1000	✓	KFRU 630	500
	Havana, Cuba			Salt Lake City, Utah			Columbia, Mo.	
✓	CMW 600	1000		KECA 1430	1000	✓	KFSD 600	1000
	Havana, Cuba			Los Angeles, Calif.			San Diego, Calif.	
✓	CMX 920	650		KELD 1370	100	✓	KFSG 1120	500
	Havana, Cuba			El Dorado, Ark.			Los Angeles, Calif.	
✓	CRCK 1050	1000		KELW 780	500	✓	KFUO 550	500
	Quebec, Que.			Burbank, Calif.			St. Louis, Mo.	
✓	CRCM 910	5000		KERN 1370	100	✓	KFVD 1000	250
	Montreal, Que.			Bakersfield, Calif.			Los Angeles, Calif.	
✓	CRCO 880	1000		KEX 1180	5000	✓	KFVS 1210	100
	Ottawa, Ont.			Portland, Ore.			Cape Girardeau, Mo.	
	CRCS 950	100		KFAB 770	10000	✓	KFWB 950	1000
	Chicoutimi, Que.			Lincoln, Neb.			Hollywood, Calif.	
✓	CRCT 840	5000		KFAC 1300	1000	✓	KKFD 1200	100
	Toronto, Ont.			Los Angeles, Calif.			Nampa, Idaho	
	CRCV 1100	500		KFBB 1280	1000		KFXJ 1200	100
	Vancouver, B. C.			Great Falls, Mont.			Grand Jet., Colo.	
✓	CRCW 600	500		KFBI 1050	5000	✓	KFXM 1210	100
	Windsor, Ont.			Abilene, Kans.			San Bernardino, Calif.	
	FQN 609	250		KFBK 1490	5000	✓	KFXR 1310	100
	St. Pierre, Miq.			Sacramento, Calif.			Oklahoma City, Okla.	
	HHK 920	1000		KFDM 560	500		KFYO 1310	100
	Port-au-Prince, Haiti			Beaumont, Texas			Lubbock, Texas	
	HHH 1395	15		KFDY 780	1000	✓	KFYR 550	1000
	San Pedro de M., D. R.			Brookings, S. D.			Bismarek, N. D.	
	HJJ 1195	15		KFEL 920	500	✓	KGA 1470	5000
	Santo Domingo, D. R.			Denver, Colo.			Spokane, Wash.	
	HIX 800	700		KFEQ 880	2500	✓	KGAR 1370	100
	Santo Domingo, D. R.			St. Joseph, Mo.			Tucson, Ariz.	
	HIZ 1300	10		KFGQ 1310	100	✓	KGB 1330	1000
	Santo Domingo, D. R.			Boone, Iowa			San Diego, Calif.	
	HP50 1440	25		KFH 1300	1000	✓	KGBU 900	500
	Colon, Panama			Wichita, Kans.			Ketchikan, Alaska	
	HRN 1270	100		KFI 640	50000	✓	KGBX 1230	500
	Tegucigalpa, Hond.			Los Angeles, Calif.			Springfield, Mo.	
	KABC 1420	100		KFIO 1120	100	✓	KGBZ 930	1000
	San Antonio, Texas			Spokane, Wash.			York, Neb.	
✓	KABR 1420	100		KFIZ 1420	100		KGCA 1270	100
	Aberdeen, S. Dak.			Fond du Lac, Wis.			Decorah, Iowa	
	KADA 1200	100		KFJB 1200	100		KGCU 1240	250
	Ada, Okla.			Marshalltown, Iowa			Mandan, N. D.	
	KALB 1420	100		KFJI 1210	100		KGCX 1310	100
	Alexandria, La.			Klamath Falls, Ore.			Wolf Point, Mont.	

NORTH AMERICAN B. C. STATIONS BY CALLS

✓	KGDE 1200 100 Fergus Falls, Minn.	✓	KHJ 900 1000 Los Angeles, Calif.	✓	KMTR 570 1000 Hollywood, Calif.
	KGDM 1100 1000 Stockton, Calif.	✓	KHQ 590 1000 Spokane, Wash.		KNEL 1590 100 Brady, Texas
	KGDY 1340 250 Huron, S. D.		KHSL 950 250 Chico, Calif.		KNET 1420 100 Palestine, Texas
	KGEK 1200 100 Sterling, Colo.		KICA 1370 100 Clovis, N. M.		KNOW 1500 100 Austin, Texas
✓	KGER 1360 1000 Long Beach, Calif.		KID 1320 250 Idaho Falls, Idaho	✓	KNX 1050 5000 Hollywood, Calif.
	KGEZ 1310 100 Kalspell, Mont.		KIDO 1350 1000 Boise, Idaho	✓	KOA 830 5000 Denver, Colo.
	KGFF 1420 100 Shawnee, Okla.		KIDW 1420 100 Lamar, Colo.	✓	KOAC 550 1000 Corvallis, Ore.
	KGFG 1370 100 Oklahoma City, Okla.		KIEM 1450 500 Eureka, Calif.		KOB 1180 10000 Albuquerque, N. M.
	KGFI 1500 100 Corpus Christi, Texas		KIEV 850 100 Glendale, Calif.		KOH 1380 500 Reno, Nev.
	KGfJ 1200 100 Los Angeles, Calif.		KINY 1310 100 Juneau, Alaska	✓	KOIL 1260 1000 Council Bluffs, Iowa
	KGFK 1500 100 Moorhead, Minn.		KIRO 710 500 Seattle, Wash.		KOIN 940 1000 Portland, Ore.
	KGFL 1370 100 Roswell, N. M.		KIT 1310 100 Yakima, Wash.	✓	KOL 1270 1000 Seattle, Wash.
	KGFW 1310 100 Kearney, Neb.		KIUJ 1310 100 Santa Fe, N. Mex.	✓	KOMA 1480 5000 Oklahoma City, Okla.
	KGFX 630 200 Pierre, S. D.	✓	KIUL 1210 100 Garden City, Kans.	✓	KOMO 920 1000 Seattle, Wash.
	KGGC 1420 100 San Francisco, Calif.		KIUN 1420 100 Pecos, Texas		KONO 1370 100 San Antonio, Texas
	KGGF 1010 1000 Coffeyville, Kans.		KIUP 1370 100 Durango, Colo.		KOOS 1390 250 Marshfield, Ore.
	KGGM 1230 250 Albuquerque, N. M.	✓	KJBS 1070 500 San Francisco, Calif.		KORE 1420 100 Eugene, Ore.
	KGHF 1320 500 Pueblo, Colo.	✓	KJR 970 5000 Seattle, Wash.		KOTN 1500 100 Pine Bluffs, Ark.
✓	KGHI 1200 100 Little Rock, Ark.	✓	KLCN 1290 100 Blytheville, Ark.		KOY 1390 500 Phoenix, Ariz.
✓	KGHL 780 1000 Billings, Mont.		KLO 1400 500 Ogden, Utah		KPAC 1260 500 Port Arthur, Texas
	KGIR 1340 1000 Butte, Mont.		KLPM 1240 250 Minot, N. D.		KPJM 1500 100 Prescott, Ariz.
✓	KGIW 1420 100 Alamosa, Colo.	✓	KLRA 1390 1000 Little Rock, Ark.		KPLC 1500 100 Lake Charles, La.
	KGKB 1500 100 Tyler, Texas		KLS 1440 250 Oakland, Calif.	✓	KPO 680 50000 San Francisco, Calif.
	KGKL 1370 100 San Angelo, Texas		KLUF 1370 100 Galveston, Texas	✓	KPOF 880 500 Denver, Colo.
	KGKO 570 250 Wichita Falls, Texas	✓	KLX 880 1000 Oakland, Calif.		KPPC 1210 50 Pasadena, Calif.
	KGKY 1500 100 Scottsbluff, Neb.	✓	KLZ 560 1000 Denver, Colo.		KPQ 1500 100 Wenatchee, Wash.
	KGMB 1320 1000 Honolulu, T. H.	✓	KMA 930 1000 Shenandoah, Iowa	✓	KPRC 920 1000 Houston, Texas
	KGNC 1410 1000 Amarillo, Texas	✓	KMAC 1370 100 San Antonio, Texas	✓	KQV 1380 500 Pittsburgh, Pa.
	KGNF 1430 1000 North Platte, Neb.	✓	KMBC 950 1000 Kansas City, Mo.	✓	KQW 1010 1000 San Jose, Calif.
✓	KGNO 1340 250 Dodge City, Kans.		KMED 1310 100 Medford, Ore.		KRE 1370 100 Berkeley, Calif.
✓	KGO 790 7500 San Francisco, Calif.	✓	KMJ 580 1000 Fresno, Calif.		KREG 1500 100 Santa Ana, Calif.
✓	KGU 750 2500 Honolulu, T. H.		KMLB 1200 100 Monroe, La.		KRGV 1260 500 Weslaco, Texas
	KGVO 1260 1000 Missoula, Mont.	✓	KMMJ 740 1000 Clay Center, Neb.	✓	KRKD 1120 500 Los Angeles, Calif.
✓	KGW 620 1000 Portland, Ore.		KMO 1330 250 Tacoma, Wash.		KRKO 1370 50 Everett, Wash.
	KGY 1210 100 Olympia, Wash.	✓	KMOX 1090 50000 St. Louis, Mo.		KRLC 1420 100 Lewiston, Idaho
	KHBC 1420 100 Hilo, T. H.	✓	KMPC 710 500 Beverly Hills, Calif.	✓	KRLD 1040 10000 Dallas, Texas

NORTH AMERICAN B. C. STATIONS BY CALLS

<input type="checkbox"/>	KRLH 1420 Midland, Texas	100	<input type="checkbox"/>	KVOA 1260 Tucson, Ariz.	500	<input type="checkbox"/>	VE9EK 1185 Montmagny, Que.	10
<input type="checkbox"/>	KRMD 1310 Shreveport, La.	100	<input checked="" type="checkbox"/>	KVOD 920 Denver, Colo.	500	<input type="checkbox"/>	VOAC 1065 St. John's, Nfld.	40
<input type="checkbox"/>	KRNR 1500 Roseburg, Ore.	100	<input type="checkbox"/>	KVOL 1310 Lafayette, La.	100	<input type="checkbox"/>	VOAS 940 St. John's, Nfld.	100
<input checked="" type="checkbox"/>	KRNT 1320 Des Moines, Iowa	500	<input checked="" type="checkbox"/>	KVOO 1140 Tulsa, Okla.	25000	<input type="checkbox"/>	VOGY 840 St. John's, Nfld.	400
<input type="checkbox"/>	KROC 1310 Rochester, Minn.	100	<input type="checkbox"/>	KVOR 1270 Colorado Spgs., Colo.	1000	<input type="checkbox"/>	VONF 1195 St. John's, Nfld.	500
<input checked="" type="checkbox"/>	KROW 930 Oakland, Calif.	1000	<input type="checkbox"/>	KVOS 1200 Bellingham, Wash.	100	<input type="checkbox"/>	VOVR 681 St. John's, Nfld.	500
<input type="checkbox"/>	KRSC 1120 Seattle, Wash.	100	<input type="checkbox"/>	KVSO 1210 Ardmore, Okla.	100	<input checked="" type="checkbox"/>	WAAR 1410 Boston, Mass.	500
<input type="checkbox"/>	KSAC 580 Manhattan, Kans.	500	<input checked="" type="checkbox"/>	KWBG 1420 Hutchinson, Kans.	100	<input type="checkbox"/>	WAAF 920 Chicago, Ill.	1000
<input type="checkbox"/>	KSCJ 1330 Sioux City, Iowa	1000	<input type="checkbox"/>	KWG 1200 Stockton, Calif.	100	<input type="checkbox"/>	WAAT 940 Jersey City, N. J.	500
<input checked="" type="checkbox"/>	KSD 550 St. Louis, Mo.	1800	<input checked="" type="checkbox"/>	KWJJ 1040 Portland, Ore.	500	<input checked="" type="checkbox"/>	WAAW 660 Omaha, Neb.	500
<input type="checkbox"/>	KSEI 900 Pocatello, Idaho	250	<input checked="" type="checkbox"/>	KWK 1350 St. Louis, Mo.	1000	<input checked="" type="checkbox"/>	WABC 860 New York, N. Y.	50000
<input checked="" type="checkbox"/>	KSFO 560 San Francisco, Calif.	1000	<input type="checkbox"/>	KWKC 1370 Kansas City, Mo.	100	<input type="checkbox"/>	WABI 1200 Bangor, Maine	100
<input checked="" type="checkbox"/>	KSL 1130 Salt Lake City, Utah	50000	<input type="checkbox"/>	KWKH 1100 Shreveport, La.	10000	<input type="checkbox"/>	WABY 1370 Albany, N. Y.	100
<input type="checkbox"/>	KSLM 1370 Salem, Ore.	100	<input checked="" type="checkbox"/>	KWLC 1270 Decorah, Iowa	100	<input type="checkbox"/>	WACO 1270 Waco, Texas	100
<input checked="" type="checkbox"/>	KSO 1430 Des Moines, Iowa	500	<input type="checkbox"/>	KWSC 1220 Pullman, Wash.	1000	<input checked="" type="checkbox"/>	WADC 1320 Akron, Ohio.	1000
<input type="checkbox"/>	KSOO 1110 Sioux Falls, S. D.	2500	<input type="checkbox"/>	KWTN 1210 Watertown, S. D.	100	<input type="checkbox"/>	WAGF 1370 Dothan, Ala.	100
<input checked="" type="checkbox"/>	KSTP 1469 St. Paul, Minn.	25000	<input checked="" type="checkbox"/>	KWTO 560 Springfield, Mo.	5000	<input checked="" type="checkbox"/>	WAGM 1420 Presque Isle, Me.	100
<input type="checkbox"/>	KSUN 1200 Lowell, Ariz.	100	<input type="checkbox"/>	KWYO 1370 Sheridan, Wyo.	100	<input checked="" type="checkbox"/>	WAIM 1200 Anderson, S. C.	100
<input checked="" type="checkbox"/>	KTAR 620 Phoenix, Ariz.	1000	<input checked="" type="checkbox"/>	KXA 760 Seattle, Wash.	250	<input type="checkbox"/>	WAFU 640 Columbus, Ohio	500
<input type="checkbox"/>	KTAT 1240 Fort Worth, Texas	1000	<input type="checkbox"/>	KXL 1420 Portland, Ore.	100	<input checked="" type="checkbox"/>	WALA 1380 Mobile, Ala.	500
<input type="checkbox"/>	KTBS 1450 Shreveport, La.	1000	<input type="checkbox"/>	KXO 1500 El Centro, Calif.	100	<input checked="" type="checkbox"/>	WALR 1210 Zanesville, Ohio	100
<input type="checkbox"/>	KRFI 1249 Twin Falls, Idaho	1000	<input type="checkbox"/>	KXRO 1310 Aberdeen, Wash.	100	<input checked="" type="checkbox"/>	WAML 1310 Laurel, Miss.	100
<input checked="" type="checkbox"/>	KTHS 1060 Hot Springs, Ark.	10000	<input type="checkbox"/>	KXYZ 1440 Houston, Texas	1000	<input checked="" type="checkbox"/>	WAPI 1140 Birmingham, Ala.	5000
<input checked="" type="checkbox"/>	KTM 780 Los Angeles, Calif.	500	<input type="checkbox"/>	KYA 1230 San Francisco, Calif.	1000	<input checked="" type="checkbox"/>	WARD 1400 Brooklyn, N. Y.	500
<input checked="" type="checkbox"/>	KTRB 740 Modesto, Calif.	250	<input checked="" type="checkbox"/>	KYW 1020 Philadelphia, Pa.	10000	<input checked="" type="checkbox"/>	WASH 1270 Grand Rapids, Mich.	500
<input type="checkbox"/>	KTRH 1290 Houston, Texas	1000	<input checked="" type="checkbox"/>	NAA 690 Arlington, Va.	1000	<input checked="" type="checkbox"/>	WATR 1190 Waterbury, Conn.	100
<input checked="" type="checkbox"/>	KTSA 550 San Antonio, Texas	1000	<input type="checkbox"/>	RDN 680 San Salvador, E. S.	500	<input checked="" type="checkbox"/>	WAVE 940 Louisville, Ky.	1000
<input type="checkbox"/>	KTSM 1310 El Paso, Texas	100	<input checked="" type="checkbox"/>	TGW 1210 Guatemala, Gua.	10000	<input checked="" type="checkbox"/>	WAWZ 1350 Zarephath, N. J.	500
<input checked="" type="checkbox"/>	KTUL 1400 Tulsa, Okla.	500	<input type="checkbox"/>	TGX 1400 Guatemala City	250	<input type="checkbox"/>	WAZL 1420 Hazleton, Pa.	100
<input type="checkbox"/>	KTW 1220 Seattle, Wash.	1000	<input type="checkbox"/>	TIEP 850 San Jose, C. R.	500	<input type="checkbox"/>	WBAA 890 West Lafayette, Ind.	1000
<input type="checkbox"/>	KUJ 1370 Walla Walla, Wash.	100	<input type="checkbox"/>	TIFA 1050 San Jose, C. R.	75	<input checked="" type="checkbox"/>	WBAL 1060 Baltimore, Md.	10000
<input type="checkbox"/>	KUMA 1420 Yuma, Ariz.	100	<input type="checkbox"/>	TIFS 1441 Cartago, C. R.	7.5	<input checked="" type="checkbox"/>	WBAP 800 Fort Worth, Texas	50000
<input type="checkbox"/>	KUOA 1260 Fayetteville, Ark.	1000	<input type="checkbox"/>	TIGA 1014 Cartago, C. R.	30	<input checked="" type="checkbox"/>	WBAX 1210 Wilkes-Barre, Pa.	100
<input checked="" type="checkbox"/>	KUSD 890 Vermillion, S. D.	500	<input type="checkbox"/>	TIGH 1000 San Jose, C. R.	500	<input checked="" type="checkbox"/>	WBBC 1400 Brooklyn, N. Y.	500
<input checked="" type="checkbox"/>	KVI 570 Tacoma, Wash.	1000	<input type="checkbox"/>	TIRH 930 San Jose, C. R.	50	<input type="checkbox"/>	WBBL 1210 Richmond, Va.	100
<input type="checkbox"/>	KVL 1370 Seattle, Wash.	100	<input type="checkbox"/>	VAS 685 Glace Bay, N. S.	2000	<input checked="" type="checkbox"/>	WBBM 770 Chicago, Ill.	50000

WATL 1370 100

NORTH AMERICAN B. C. STATIONS BY CALLS

✓	WBBR 1300	1000	✓	WCFL 970	5000	✓	WEED 1420	100
	Brooklyn, N. Y.			Chicago, Ill.			Rocky Mount, N. C.	
✓	WBZ 1200	100	✓	WCHS 580	500	✓	WEEL 590	1000
	Ponca City, Okla.			Charleston, W. Va.			Boston, Mass.	
✓	WBCM 1410	500	✓	WCKY 1490	5000	✓	WEUU 830	1000
	Bay City, Mich.			Covington, Ky.			Reading, Pa.	
✓	WBEN 900	1000	✓	WCLO 1200	100	✓	WEHC 1420	100
	Buffalo, N. Y.			Janesville, Wis.			Charlottesville, Va.	
✓	WBEO 1310	100	✓	WCLS 1420	100	✓	WEHS 1420	100
	Marquette, Mich.			Joliet, Ill.			Cicero, Ill.	
✓	WBIG 1440	500	✓	WCMI 1310	100	✓	WELI 900	500
	Greensboro, N. C.			Ashland, Ky.			New Haven, Conn.	
✓	WBNO 1200	100	✓	WCNW 1500	100	✓	WELL 1420	100
	New Orleans, La.			Brooklyn, N. Y.			Battle Creek, Mich.	
✓	WBNS 1430	500	✓	WCOA 1340	500	✓	WEMP 1310	100
	Columbus, Ohio			Pensacola, Fla.			Milwaukee, Wis.	
✓	WBNX 1350	250	✓	WCOC 880	500	✓	WENR 870	50000
	New York, N. Y.			Meridian, Miss.			Chicago, Ill.	
✓	WBNY 1370	100	✓	WCOL 1210	100	✓	WESG 850	1000
	Buffalo, N. Y.			Columbus, Ohio			Elmira, N. Y.	
✓	WBOQ 860	50000	✓	WCOP 1120	500	✓	WEST 1200	100
	New York, N. Y.			Boston, Mass.			Easton, Pa.	
✓	WBOW 1310	100	✓	WCPO 1200	100	✓	WEVD 1300	1000
	Terre Haute, Ind.			Cincinnati, Ohio			New York, N. Y.	
✓	WBRB 1210	100	✓	WCRW 1210	100	✓	WEW 760	1000
	Red Bank, N. J.			Chicago, Ill.			St. Louis, Mo.	
✓	WBRC 930	1000	✓	WCSC 1360	500	✓	WEXL 1310	50
	Birmingham, Ala.			Charleston, S. C.			Royal Oak, Mich.	
✓	WBRE 1310	100	✓	WCSH 940	1000	✓	WFAA 800	50000
	Wilkes-Barre, Pa.			Portland, Me.			Dallas, Texas	
✓	WBSO 920	500	✓	WDAE 1220	1000	✓	WFAB 1300	1000
	Parson Park, Mass.			Tampa, Fla.			New York, N. Y.	
✓	WBT 1080	50000	✓	WDAF 610	1000	✓	WFAM 1200	100
	Charlotte, N. C.			Kansas City, Mo.			South Bend, Ind.	
✓	WBTM 1370	100	✓	WDAH 1310	100	✓	WFAS 1210	100
	Danville, Va.			El Paso, Texas			White Plains, N. Y.	
✓	WBZ 990	50000	✓	WDAS 1370	100	✓	WFBC 1300	1000
	Boston, Mass.			Philadelphia, Pa.			Greenville, S. C.	
✓	WBZA 990	1000	✓	WDAY 940	1000	✓	WFBG 1310	100
	Springfield, Mass.			Fargo, N. D.			Altoona, Pa.	
✓	WCAC 600	500	✓	WDBJ 930	1000	✓	WFBL 1360	1000
	Storrs, Conn.			Roanoke, Va.			Syracuse, N. Y.	
✓	WCAD 1220	500	✓	WDBO 580	1000	✓	WFBM 1230	1000
	Canton, N. Y.			Orlando, Fla.			Indianapolis, Ind.	
✓	WCAE 1220	1000	✓	WDEL 1120	250	✓	WFBR 1270	500
	Pittsburgh, Pa.			Wilmington, Del.			Baltimore, Md.	
✓	WCAL 1250	1000	✓	WDEV 550	500	✓	WFDF 1310	100
	Northfield, Minn.			Waterbury, Vt.			Flint, Mich.	
✓	WCAM 1280	500	✓	WDGY 1180	1000	✓	WFEA 1340	500
	Camden, N. J.			Minneapolis, Minn.			Manchester, N. H.	
✓	WCAO 600	500	✓	WDNC 1500	100	✓	WFIL 560	1000
	Baltimore, Md.			Durham, N. C.			Philadelphia, Pa.	
✓	WCAP 1280	500	✓	WDDO 1280	1000	✓	WFLA 620	1000
	Asbury Park, N. J.			Chattanooga, Tenn.			Clearwater, Fla.	
✓	WCAT 1200	100	✓	WDRC 1330	1000	✓	WFMD 900	500
	Rapid City, S. D.			Hartford, Conn.			Frederick, Md.	
✓	WCAU 1170	50000	✓	WDSU 1250	1000	✓	WGAL 1500	100
	Philadelphia, Pa.			New Orleans, La.			Lancaster, Pa.	
✓	WCAX 1200	100	✓	WDZ 1070	100	✓	WGAR 1450	500
	Burlington, Vt.			Tuscola, Ill.			Cleveland, Ohio	
✓	WCAZ 1070	100	✓	WEAF 660	50000	✓	WGBB 1210	100
	Carthage, Ill.			New York, N. Y.			Freeport, N. Y.	
✓	WCBA 1440	500	✓	WEAN 780	500	✓	WGBF 630	500
	Allentown, Pa.			Providence, R. I.			Evansville, Ind.	
✓	WCBD 1080	5000	✓	WEBC 1290	1000	✓	WGBI 880	500
	Waukegan, Ill.			Superior, Wis.			Scranton, Pa.	
✓	WCBM 1370	100	✓	WEBQ 1210	100	✓	WGCM 1210	100
	Baltimore, Md.			Harrisburg, Ill.			Gulfport, Miss.	
✓	WCBS 1420	100	✓	WEBR 1310	100	✓	WGES 1360	500
	Springfield, Ill.			Buffalo, N. Y.			Chicago, Ill.	
✓	WCCO 810	50000	✓	WEDC 1210	100	✓	WGH 1310	100
	Minneapolis, Minn.			Chicago, Ill.			Newport News, Va.	

NORTH AMERICAN B. C. STATIONS BY CALLS

✓	WGL 1370	100	✓	WIBA 1280	1000	✓	WJSV 1460	10000
	Fort Wayne, Ind.			Madison, Wis.			Washington, D. C.	
✓	WGN 720	50000	✓	WIBG 970	100	✓	WJTL 1370	100
	Chicago, Ill.			Glenside, Pa.			Atlanta, Ga.	
✓	WGNV 1210	100	✓	WIBM 1370	100	✓	WJW 1210	100
	Chester, N. Y.			Jackson, Mich.			Akron, Ohio	
	WGPC 1420	100	✓	WIBU 1210	100	✓	WJZ 760	50000
	Albany, Ga.			Poynette, Wis.			New York, N. Y.	
✓	WGR 550	1000	✓	WIBW 580	1000	✓	WKAQ 1240	1000
	Buffalo, N. Y.			Topeka, Kans.			San Juan, P. R.	
✓	WGST 890	500	✓	WIBX 1200	100	✓	WKAR 850	1000
	Atlanta, Ga.			Utica, N. Y.			East Lansing, Mich.	
✓	WGY 790	50000	✓	WICC 600	500	✓	WKBB 1500	100
	Schenectady, N. Y.			Bridgeport, Conn.			East Dubuque, Ill.	
✓	WHA 940	1000		WIL 1200	100	✓	WKBB 1380	1000
	Madison, Wis.			St. Louis, Mo.			LaCrosse, Wis.	
✓	WHAM 1150	50000	✓	WILL 890	250	✓	WKBI 1420	100
	Rochester, N. Y.			Urbana, Ill.			Cicero, Ill.	
✓	WHAS 820	50000	✓	WILM 1420	100	✓	WKBN 570	500
	Louisville, Ky.			Wilmington, Del.			Youngstown, Ohio	
✓	WHAT 1310	100	✓	WIND 560	1000	✓	WKBO 1200	100
	Philadelphia, Pa.			Gary, Ind.			Harrisburg, Pa.	
✓	WHAZ 1300	500	✓	WINS 1180	1000	✓	WKBV 1500	100
	Troy, N. Y.			New York, N. Y.			Richmond, Ind.	
✓	WHB 860	1000	✓	WIOD 1300	1000	✓	WKBW 1480	5000
	Kansas City, Mo.			Miami, Fla.			Buffalo, N. Y.	
✓	WHBB 1500	100	✓	WIP 610	1000	✓	WKBZ 1500	100
	Selma, Alabama			Philadelphia, Pa.			Muskegon, Mich.	
✓	WHBC 1200	100	✓	WIRE 1400	580	✓	WKEU 1500	100
	Canton, Ohio			Indianapolis, Ind.			Griffin, Ga.	
✓	WHBF 1210	100	✓	WIS 1080	500	✓	WKOK 1210	100
	Rock Island, Ill.			Columbia, S. C.			Sunbury, Pa.	
✓	WHBI 1250	1000	✓	WISN 1120	250	✓	WKRC 550	1000
	Newark, N. J.			Milwaukee, Wis.			Cincinnati, Ohio	
✓	WHBL 1410	500	✓	WJAC 1310	100	✓	WKY 900	1000
	Sheboygan, Wis.			Johnstown, Pa.			Oklahoma City, Okla.	
✓	WHBQ 1378	100	✓	WJAG 1060	1000	✓	WKZO 590	1000
	Memphis, Tenn.			Norfolk, Neb.			Kalamazoo, Mich.	
✓	WHBU 1210	100	✓	WJAR 890	500	✓	WLAC 1470	5000
	Anderson, Ind.			Providence, R. I.			Nashville, Tenn.	
✓	WHBY 1200	100	✓	WJAS 1290	1000	✓	WLAP 1420	100
	Green Bay, Wis.			Pittsburgh, Pa.			Lexington, Ky.	
✓	WHDF 1370	100	✓	WJAX 900	1000	✓	WLB 1250	1000
	Calumet, Mich.			Jacksonville, Fla.			Minneapolis, Minn.	
✓	WHDH 830	1000	✓	WJAY 610	500	✓	WLBC 1310	100
	Boston, Mass.			Cleveland, Ohio			Muncie, Ind.	
✓	WHDL 1420	100	✓	WJBC 1200	100	✓	WLBZ 1420	100
	Olean, N. Y.			Bloomington, Ill.			Kansas City, Kans.	
✓	WHEB 740	250	✓	WJBK 1500	100	✓	WLBL 900	2500
	Portsmouth, N. H.			Detroit, Mich.			Stevens Point, Wis.	
✓	WHEC 1430	500	✓	WJBL 1200	100	✓	WLBZ 620	500
	Rochester, N. Y.			Decatur, Ill.			Bangor, Me.	
✓	WHEF 1500	100	✓	WJBO 1420	100	✓	WLEU 1420	100
	Kosciusko, Miss.			Baton Rouge, La.			Erle, Pa.	
✓	WHFC 1420	100	✓	WJBR 1420	100	✓	WLLH 1370	100
	Cicero, Ill.			Gastonia, N. C.			Lowell, Mass.	
✓	WHIO 1260	1000	✓	WJBW 1200	100	✓	WLNH 1310	100
	Dayton, Ohio			New Orleans, La.			Laconia, N. H.	
✓	WHIS 1410	250	✓	WJBY 1210	100	✓	WLS 870	50000
	Bluefield, W. Va.			Gadsden, Ala.			Chicago, Ill.	
✓	WHJB 620	250	✓	WJDX 1270	1000	✓	WLTH 1400	500
	Greensburg, Pa.			Jackson, Miss.			Brooklyn, N. Y.	
✓	WHK 1390	1000	✓	WJEJ 1210	100	✓	WLVA 1200	100
	Cleveland, Ohio			Hagerstown, Md.			Lynchburg, Va.	
✓	WHN 1010	1000	✓	WJIM 1210	100	✓	WLW 700	500000
	New York, N. Y.			Lansing, Mich.			Cincinnati, Ohio	
✓	WHO 1000	50000	✓	WJJD 1130	20000	✓	WLWL 1100	5000
	Des Moines, Iowa			Chicago, Ill.			New York, N. Y.	
✓	WHOM 1450	250	✓	WJMS 1420	100	✓	WMAL 630	250
	Jersey City, N. J.			Ironwood, Mich.			Washington, D. C.	
✓	WHP 1430	500	✓	WJR 750	50000	✓	WMAQ 670	50000
	Harrisburg, Pa.			Detroit, Mich.			Chicago, Ill.	

NORTH AMERICAN B. C. STATIONS BY CALLS

<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;"></td><td style="width: 70%;">WMAS 1420</td><td style="width: 20%; text-align: right;">100</td></tr> <tr><td style="text-align: center;">✓</td><td>Springfield, Mass.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMAZ 1180</td><td>1000</td></tr> <tr><td></td><td>Macon, Ga.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBC 1420</td><td>100</td></tr> <tr><td></td><td>Detroit, Mich.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBD 1440</td><td>500</td></tr> <tr><td></td><td>Peoria, Ill.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBC 1210</td><td>100</td></tr> <tr><td></td><td>Richmond, Va.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBH 1420</td><td>100</td></tr> <tr><td></td><td>Joplin, Mo.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBI 1080</td><td>5000</td></tr> <tr><td></td><td>Chicago, Ill.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBO 1310</td><td>100</td></tr> <tr><td></td><td>Auburn, N. Y.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBQ 1500</td><td>100</td></tr> <tr><td></td><td>Brooklyn, N. Y.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMBR 1370</td><td>100</td></tr> <tr><td></td><td>Jacksonville, Fla.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMC 780</td><td>1000</td></tr> <tr><td></td><td>Memphis, Tenn.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMCA 570</td><td>500</td></tr> <tr><td></td><td>New York, N. Y.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMEX 1500</td><td>100</td></tr> <tr><td></td><td>Boston, Mass.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFD 1370</td><td>100</td></tr> <tr><td></td><td>Wilmington, N. C.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFF 1310</td><td>100</td></tr> <tr><td></td><td>Plattsburg, N. Y.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFG 1210</td><td>100</td></tr> <tr><td></td><td>Hibbing, Minn.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFJ 1420</td><td>100</td></tr> <tr><td></td><td>Daytona Beach, Fla.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFN 1210</td><td>100</td></tr> <tr><td></td><td>Clarksdale, Miss.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFO 1370</td><td>100</td></tr> <tr><td></td><td>Decatur, Ala.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMFR 1200</td><td>100</td></tr> <tr><td></td><td>High Point, N. C.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMMN 890</td><td>500</td></tr> <tr><td></td><td>Fairmount, W. Va.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMPC 1200</td><td>100</td></tr> <tr><td></td><td>Lapeer, Mich.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WMT 608</td><td>1000</td></tr> <tr><td></td><td>Cedar Rapids, Iowa</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNAAC 1230</td><td>1000</td></tr> <tr><td></td><td>Boston, Mass.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNAD 1010</td><td>1000</td></tr> <tr><td></td><td>Norman, Okla.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNAX 570</td><td>1000</td></tr> <tr><td></td><td>Yankton, S. D.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNBC 1380</td><td>250</td></tr> <tr><td></td><td>New Britain, Conn.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNB 1500</td><td>100</td></tr> <tr><td></td><td>Binghamton, N. Y.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNBH 1310</td><td>100</td></tr> <tr><td></td><td>New Bedford, Mass.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNBR 1430</td><td>500</td></tr> <tr><td></td><td>Memphis, Tenn.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNBX 1260</td><td>1000</td></tr> <tr><td></td><td>Springfield, Vt.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNBZ 1290</td><td>100</td></tr> <tr><td></td><td>Saranac Lake, N. Y.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNEL 1290</td><td>500</td></tr> <tr><td></td><td>San Juan, P. R.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNEW 1250</td><td>1000</td></tr> <tr><td></td><td>Newark, N. J.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNOX 680</td><td>1000</td></tr> <tr><td></td><td>Knoxville, Tenn.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNRA 1420</td><td>100</td></tr> <tr><td></td><td>Sheffield, Ala.</td><td></td></tr> </table>		WMAS 1420	100	✓	Springfield, Mass.		✓	WMAZ 1180	1000		Macon, Ga.		✓	WMBC 1420	100		Detroit, Mich.		✓	WMBD 1440	500		Peoria, Ill.		✓	WMBC 1210	100		Richmond, Va.		✓	WMBH 1420	100		Joplin, Mo.		✓	WMBI 1080	5000		Chicago, Ill.		✓	WMBO 1310	100		Auburn, N. Y.		✓	WMBQ 1500	100		Brooklyn, N. Y.		✓	WMBR 1370	100		Jacksonville, Fla.		✓	WMC 780	1000		Memphis, Tenn.		✓	WMCA 570	500		New York, N. Y.		✓	WMEX 1500	100		Boston, Mass.		✓	WMFD 1370	100		Wilmington, N. C.		✓	WMFF 1310	100		Plattsburg, N. Y.		✓	WMFG 1210	100		Hibbing, Minn.		✓	WMFJ 1420	100		Daytona Beach, Fla.		✓	WMFN 1210	100		Clarksdale, Miss.		✓	WMFO 1370	100		Decatur, Ala.		✓	WMFR 1200	100		High Point, N. C.		✓	WMMN 890	500		Fairmount, W. Va.		✓	WMPC 1200	100		Lapeer, Mich.		✓	WMT 608	1000		Cedar Rapids, Iowa		✓	WNAAC 1230	1000		Boston, Mass.		✓	WNAD 1010	1000		Norman, Okla.		✓	WNAX 570	1000		Yankton, S. D.		✓	WNBC 1380	250		New Britain, Conn.		✓	WNB 1500	100		Binghamton, N. Y.		✓	WNBH 1310	100		New Bedford, Mass.		✓	WNBR 1430	500		Memphis, Tenn.		✓	WNBX 1260	1000		Springfield, Vt.		✓	WNBZ 1290	100		Saranac Lake, N. Y.		✓	WNEL 1290	500		San Juan, P. R.		✓	WNEW 1250	1000		Newark, N. J.		✓	WNOX 680	1000		Knoxville, Tenn.		✓	WNRA 1420	100		Sheffield, Ala.		<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;"></td><td style="width: 70%;">WNRI 1200</td><td style="width: 20%; text-align: right;">100</td></tr> <tr><td></td><td>Newport, R. I.</td><td></td></tr> <tr><td style="text-align: center;">✓</td><td>WNYC 810</td><td>1000</td></tr> <tr><td></td><td>New York, N. 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NORTH AMERICAN B. C. STATIONS BY CALLS

✓	WSVS 1370 Buffalo, N. Y.	50		XEA 1060 Guadalajara, Jal.	500		XEMO 860 Tijuana, L. C.	5000
	WSYB 1500 Rutland, Vt.	100		XEAA 920 Mexicali, B. C.	200		XEMX 1280 Mexico City, D. F.	12
✓	WSYR 570 Syracuse, N. Y.	250		XEAF 990 Nogales, Son.	500		XEMZ 1210 Tijuana, L. C.	250
	WTAD 900 Quincy, Ill.	500		XEAI 1240 Mexico City, D. F.	100		XEN 710 Mexico City, D. F.	1000
✓	WTAG 580 Worcester, Mass.	500		XEAJ 1310 Oaxaca, Oax.	15		XENT 910 Nuevo Laredo, Tams.	65000
	WTAL 1310 Tallahassee, Fla.	100		XEAM 750 Matamoros, Tams.	7.5		XEOK 760 Tijuana, L. C.	250
✓	WTAM 1070 Cleveland, Ohio	50000		XEAO 560 Mexicali, B. C.	250		XEOX 640 Saltillo, Coah.	500
	WTAQ 1330 Eau Claire, Wis.	1000		XEAS 1160 Saltillo, Coah.	100		XEP 840 Mexico City, D. F.	500
✓	WTAR 780 Norfolk, Va.	500	✓	XEAW 960 Reynosa, Tams.	50000		XEPN 590 Piedras Negras, Coah.	50000
	WTAW 1120 College Station, Tex.	500		XEAZ 1420 Guanajuato, Gto.	7		XERA 840 Villa Acuna, Coah.	250000
	WTAX 1210 Springfield, Ill.	100		XEB 1030 Mexico City, D. F.	10000		XES 990 Tampico, Tams.	250
✓	WTBO 800 Cumberland, Md.	250		XEC 1160 Tijuana, B. C.	30		XET 690 Monterrey, N. L.	500
	WTCN 1250 Minneapolis, Minn.	1000		XECW 1310 Mexico City, D. F.	10		XETB 1310 Torreon, Coah.	125
✓	WTEL 1310 Philadelphia, Pa.	100		XED 1155 Guadalajara, Jal.	2500		XETF 1220 Veracruz, Ver.	12
✓	WTFI 1450 Athens, Ga.	500		XEE 1210 Durango, Dgo.	50		XETH 1210 Puebla, Pue.	100
✓	WTIC 1040 Hartford, Conn.	50000		XEFA 1180 Mexico City, D. F.	500		XETW 820 Mexico City, D. F.	500
	WTJS 1310 Jackson, Tenn.	100		XEFB 1420 Monterrey, N. L.	100		XEU 1010 Veracruz, Ver.	250
✓	WTMJ 620 Milwaukee, Wis.	1000		XEFC 560 Merida, Yuc.	100		XEW 890 Mexico City, D. F.	50000
	WTMV 1500 East St. Louis, Ill.	100		XEFE 850 Laredo, Tams.	250		XEWZ 1150 Mexico City, D. F.	100
✓	WTNJ 1280 Trenton, N. J.	500		XEFI 1440 Chihuahua, Chih.	250		XEX 1310 Monterrey, N. L.	125
✓	WTOC 1260 Savannah, Ga.	1000		XEFJ 1230 Monterrey, N. L.	100		XEY 1000 Merida, Yuc.	10
✓	WTRC 1310 Elkhart, Ind.	100	✓	XEFL 1150 Tijuana, L. C.	500		XEYZ 780 Mexico City, D. F.	10000
✓	WVFW 1400 Brooklyn, N. Y.	500	✓	XEFO 940 Mexico City, D. F.	5000		XEZ 630 Merida, Yuc.	500
✓	WWAE 1200 Hammond, Ind.	100		XEFV 1210 Juarez, Chih.	100		XEZZ 1370 San Luis Potosi, S. L. P.	100
✓	WWJ 920 Detroit, Mich.	1000		XEFW 1310 Tampico, Tams.	250		XFA 1310 Aguascalientes, Ags.	5
✓	WWL 850 New Orleans, La.	10000		XEFZ 1370 Mexico City, D. F.	100		XFB 1270 Jalapa, Ver.	250
✓	WWNC 570 Asheville, N. C.	1000		XEG 1270 Ensenada, B. C.	200		XFC 810 Aguascalientes, Ags.	350
✓	WWRL 1500 Woodside, N. Y.	100		XEH 1150 Monterrey, N. L.	250		XFD 1340 Jalapa, Ver.	350
✓	WWSW 1500 Pittsburgh, Pa.	100		XEI 1370 Morelia, Mich.	125		XFO 940 Mexico City, D. F.	5000
✓	WWVA 1160 Wheeling, W. Va.	5000		XEJ 1020 Juarez, Chih.	1000		XFX 610 Mexico City, D. F.	1000
✓	WXYZ 1240 Detroit, Mich.	1000		XEK 990 Mexico City, D. F.	100		YNLF 1275 Managua, Nicaragua	20
✓	W1XBS 1530 Waterbury, Conn.	1000		XEKL 1240 Leon, Guan.	500		YNOP 1230 Managua, Nicaragua	100
	W2XR 1550 Long Island City, N. Y.	1000		XEL 1100 Mexico City, D. F.	250		YNVA 950 Managua, Nicaragua	30
✓	W6XAI 1550 Bakersfield, Calif.	1000		XELO 1110 Piedras Negras, Coah.	10000			
✓	W9XBY 1530 Kansas City, Mo.	1000		XEMA 1080 Tampico, Tams.	50			

PP 959

LRI 1070

Fecamp 1113 - 10000

XEAQ - 1093

LS2 - 1190

✓ Bordeaux 1077

✓ LR 4-990

84 40

AROUND the CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJA DJN DIQ VPD VK2ME W3XAL W8XAL W8XK	DJA DJN DJQ VPD VK2ME W3XAL W8XAL W8XK	W9XF	GSB GSD PCJ VK3LR RV15	DJB DJN GSB GSD JVM PCJ RV15 VK2ME VK3LR	DJB DJN HJV GSD JVM LKI PCJ RV15 VK3LR VK3ME YDA YDB	DJB DJN GSF JVM LKI PCJ RV15 VK2ME VK3LR VK3ME YDA YDB	DJB DJN GSF JVM LKI PCJ RV15 VK2ME VK3LR VK3ME YDA YDB	DJA DJB DJE DJN GSB GSD PCJ PHI RNE VK2ME W8XAL W8XK YDA YDB	DJA DJB DJE DJN GSB GSD PCJ PHI RNE W8XAL W8XK YDA YDB	DJA DJB DJE DJN GSB GSD PCJ PHI RNE W8XAL W8XK YDA YDB	DJA DJB DJE DJN GSB GSD PCJ PHI RNE W8XAL W8XK YDA YDB

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJD EAQ GSB GSD GSI GSL ORK Pont. W1XK W2XE W2XAD W3XAU W8XAL W8XK W9XAA	DJC DJD EAQ GSB GSD GSI GSL ORK Pont. W1XK W2XAD W3XAU W8XK W9XAA	DJC DJD GSB GSD GSI GSL I2RO ORK W1XK W2XAD W3XAU W8XK W9XAA	CJRO CJRX DJC DJD GSI GSL I2RO ORK W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX CT1AA DJA DJD DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJN EQ GSI GSL I2RO Pont. W1XK W2XAD W3XAU W8XK W9XAA	CJRO CJRX COCO CRCX HJ4ABL TGWA TGIX W1XK W3XAU W8XK W9XAA W9XF

BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

Frequencies are given in megacycles and the time is Eastern Standard,
daily unless otherwise mentioned.

- CEC, Santiago, Chile, 10.670. Daily.
2000-2100; Thu., Sun. 2030-2100.
- CHNX, Halifax, N. S., 6.110. 0900-
1230; 1600-2300.
- CJRO, Winnipeg, Man. 6.150. Sun.
1500-2200; other days, 2000-2400
- CJRX, Winnipeg, Man., 11.720.
Sun., 1500-2200; other days,
2000-2400.
- COCD, Havana, Cuba, 6.130. Sun.,
1700-2300; weekdays, 1100-2400.
- COCH, Havana, Cuba, 9.428. Daily
1000-1200; 1600-1800; 2100-2200.
- COCO, Havana, Cuba, 6.010. Daily
1600-1900.
- CO9GC, Santiago, Cuba, 6.150.
Sun., 0000-0200.
- CO9JQ, Camaguey, Cuba, 8.665.
2000-2100.
- CO9WR, Sancti-Spiritus, Cuba,
11.800.
- CRXC, Bowmanville, Ont., 6.090.
Daily 1830-2330.
- CT1AA, Lisbon, Portugal, 9.600.
Tues., Thurs., Sat., 1630-1900.
- DJA, Berlin, Germany, 9.560, 0030-
0215; 0800-1130; 1705-2115
- DJB, Berlin, Germany, 15.200.
0345-0715; 0800-1130.
- DJC, Berlin, Germany, 6.020. 1200-
1630; 1700-2245.
- DJD, Berlin, Germany, 11.770.
1200-1630.
- DJE, Berlin, Germany, 17.760.
0800-1130.
- DJN, Berlin, Germany, 9.540. 0030-
0215; 0345-0715; 1705-2245.
- DJQ, Berlin, Germany, 15.280.
0030-0215
- EAQ, Madrid, Spain, 9.862. 1730-
1900; Sat., 1200-1400.
- GSA, Daventry, England, 6.050.
1645-1745; 1800-2000.
- GSB, Daventry, England, 9.510.
0300-0500; 0900-1200; 1215-1630;
1645-1745; 1800-2000.
- GSC, Daventry, England, 9.580.
1645-1745; 1800-2000; 2200-2300.
- GSD, Daventry, England, 11.750.
0300-0500; 1215-1630; 2200-2300.
- GSE, Daventry, England, 11.860.
0900-1200
- GSF, Daventry, England, 15.140.
0700-0845; 0900-1200
- GSG, Daventry, England, 17.790.
0700-0845; 0900-1200
- GSI, Daventry, England, 15.260.
1215-1545
- GSL, Daventry, England, 6.110.
1215-1545; 1800-2000; 2200-2300
- HAS3, Budapest, Hungary, 15.370.
Sun. 0900-1000.
- HAT4, Budapest, Hungary, 9.125.
Sun., 1800-1900.
- HLB, Geneva, Switz., 9.595. Sat.,
1730-1815.
- HBP, Geneva, Switz., 7.797. Sat.,
1730-1815.
- HCJB, Quito, Ecuador, 8.214.
Daily exc. Mon., 1915-2315.
- HC2ET, Guayaquil, Ecuador, 4.600.
Wed., Sat., 2130-2300.
- HC2RL, Guayaquil, Ecuador, 6.659.
Tues., 2115-2315; Sun., 1745-
1945.
- HIH, San Pedro de Macoris, D. R.
6.800. Sun., 0300-0400; 1230-
1500; 1600-1700; Mon., Wed.,
Thur., Sat., 1210-1400; 1910-
2100; Tues., Fri., 1210-1400;
1910-2010.
- HIX, Santo Domingo, D. R., Tues.,
Fri., 2000-2200.
- HIZ, Santo Domingo, D. R., 6.315.
Sat., 2300-0100; daily exc. Sun.,
1700-1800.
- HJ1ABB, Barranquilla, Colombia,
6.447. 1700-2200.
- HJ1ABD, Cartagena, Colombia,
7.280. 1945-2115.
- HJ1ABE, Cartagena, Colombia,
6.115. Sun. at 0400; Mon.,
2200-2400; Wed., 2000-2200.
- HJ1ABC, Barranquilla, Colombia,
6.042. 1900-2200.
- HJ1ABH, Cienaga, Colombia, 6.300.
Tues., Fri., 1945-2200.
- HJ1ABJ, Santa Marta, Colombia,
6.006. Weekdays, 1100-1300;
1900-2100.
- HJ2ABC, Cucuta, Colombia, 5.975.
Weekdays, 1800-2100.
- HJ2ABD, Bucaramanga, Colombia,
5.980.
- HJ3ABD, Bogota, Colombia, 7.390.
1900-2300.
- HJ3ABF, Bogota, Colombia, 6.200.
1900-2300.
- HJ3ABH, Bogota, Colombia, 6.012.
Sun., 1600-2100; other days,
1800-2300.
- HJ4ABA, Medellin, Colombia,
11.720. 1130-1300; 1830-2230.
- HJ4ABC, Ibague, Colombia, 6.450.
2000-2200.
- HJ4ABD, Medellin, Colombia, 5.770.
1800-2300.
- HJ4ABE, Medellin, Colombia, 5.900.
1900-2300.
- HJ4ABL, Manizales, Colombia,
6.100. Sat., 2300-2430.
- HJ5ABC, Cali, Colombia, 6.150.
Mon., Tues., Wed., Fri., 1900-
2200.
- HJ5ABD, Cali, Colombia, 6.490.
Thurs., Sat., Sun., 1900-2100.
- HJ5ABE, Cali, Colombia, 14.000.
1900-2200.
- HKE, Bogota, Colombia, 7.090.
- HP5B, Panama City, Panama, 6.030.
1900-2200.
- HP5J, Panama City, Panama, 9.590.
1930-2200.
- HIRN, Tegucigalpa, Honduras, 5.875.
Daily 2000-2200.
- HVJ, Vatican City, 5.970. Sun.,
0500-0530. 15.120. Tests late
afternoons.
- I2RO, Rome, Italy, 9.630. Mon.,
Wed., Fri., 1800-2100.
- I2RO, Rome, Italy, 11.810. Daily,
1430-1700.
- JVM, Nazaki, Japan, 10.740.
Daily, 0400-0745.
- LCL, Jeloy, Norway, 6.130. 0500-
0800.
- LKJJI, Jeloy, Norway, 9.540. 0500-
0800.
- OAXAD, Lima, Peru, 5.780. Wed.,
Sat., 2100-2330.
- OAXAG, Lima, Peru, 6.230. 1900-
2200.
- ORK, Brussels, Belgium, 10.330.
1200-1400.
- PCJ, Hilversum, Netherlands,
15.230. Sun., 0730-1000; Tues.,
0300-0600; Wed., 0700-1100.
- PHI, Hilversum, Netherlands,
11.730. 0830-1100, daily exc.
Tues. and Wed.
- PRADO, Riobamba, Ecuador,
6.620. Thurs., 2100-2330.
- PRF5, Rio de Janeiro, Brazil,
9.505. 1700-1745.
- RNE, Moscow, USSR, 12.000.
Daily, 1400-1800; Sun., 0700-
1100; Wed., 0600-0700.
- RV15, Khabarovsk, USSR., 4.273.
Daily, 0300-0900.
- SPW, Warsaw, Poland, 13.630.
Testing.
- TGWA, Guatemala City, 6.000.
Weekdays, 1930-2030; 2200-2400
- TG1X, Guatemala City, 9.450.
Weekdays, 1930-2030; 2200-2400
- TG2X, Guatemala City, 5.940.
Daily 2100-2200.
- TIEP, San Jose, Costa Rica., 6.710.
1900-2200.
- TIGPH, San Jose, Costa Rica,
5.820. 1900-2200.
- TIPG, San Jose, Costa Rica, 6.385.
Weekdays, 1730-2230.
- TIROC, San Jose, Costa Rica,
6.550. Daily, 1800-1900. Sun.
Thurs., 2000-2100; Sun., 1100-
1300.
- T15HH, San Ramon, Costa Rica,
5.520. 1530-1700; 2000-2130.
- T18WS, Puntarenas, Costa Rica,
7.550. 1800-1900; 2000-2100.
- VK2ME, Sydney, Australia, 9.585.
Sun., 0000-0200; 0430-0830;
0900-1100.
- VK3LR, Melbourne, Australia,
9.580. Mon., Tues., Wed.,
Thurs., 0315-0730; Fri., 2230-
0200; Sat., 0500-0730.
- VK3ME, Melbourne, Australia,
9.503. Wed., Thurs., Fri.,
Sat., 0500-0700.
- VPD, Suva, Fiji, 13.075. 0030-0130.
- VUB, Bombay, India, 9.565. Sun.,
near 7 a.m.
- W1XAL, Boston, Mass., 11.790.
Tues., Thur., 1915-2115.
- W1XK, Millis, Mass., 9.570. 0700-
0100.
- W2XAD, Schenectady, N. Y. 15.330.
Sat., 1300-1615; Sun., 1030-
1600; other days, 1400-1500.
- W2XAF, Schenectady, N. Y., 9.530.
1840-2300.
- W2XE, Wayne, N. J., 6.120. 2000-
2300. 11.830; 1700-1900. 15.270;
1000-1700.
- W3XAL, Bound Brook, N. J., 6.100;
Mon., Wed., Sat., 1700-0100.
17.780. Tues., Thurs., Fri.,
1500-1600.

W3NAU, Philadelphia, Pa., 9.590: 1200-2000.
 W3XL, Bound Brook, N. J., 17.310: 1100-1700.
 W4NB, Miami, Fla., 6.040. Sun., 1130-1500; 1700-2400. Other days, 1200-1400; 1730-2400.
 W8XAL, Cincinnati, Ohio, 6.060. Sun., 0700-1900; 2200-0130. Other days, 0630-1900; 2200-0200.
 W8XK, Pittsburgh, Pa., 6.140: 2100-0100. 11.870: 1700-2100. 15.210: 0900-1900. 21.540: 0700-0900.
 W9XF, Chicago, Ill., 6.100: Monday to Friday, 0100-0200; 2100-2200; Sat., 0100-0200; Sun., 0100-0230; 2100-2200.
 XBJQ, Mexico City, Mex., 11.000. Afternoons irreg.
 XEBI, Mexico City, Mex., 5.980. Thurs., 2200-2300.
 XEBT, Mexico City, D. F., 6.000. 1200-2400.
 XECR, Mexico City, D. F., 7.380: Sun., 1800-1900.
 XEDQ, Guadalajara, Mex., 9.520. 0800-0900; 1200-2400.
 XEFT, Veracruz, Mex., 6.120. Daily, 1930-2400; Sat., 1830-2400; Sun., 2100-2400.
 XEOK, Tijuana, Mex., 6.130.
 XEUW, Veracruz, Mex., 6.020.
 YDA, Tandjongprieok, N. E. I., 11.000. 0530-1100.
 YDA5, Bandoeng, N. E. I., 6.120; 0530-1100; 1745-1845; 2230-0130.
 YDB, Soerabaja, N. E. I., 4.470. 0530-1100.
 YVQ, Maracay, Venez., 6.672. Sat., 2000-2100.
 YV2RC, Caracas, Venezuela, 6.112. 1700-2145.
 YV3RC, Caracas, Venezuela, 6.150. 1700-2200.
 YV4RC, Caracas, Venezuela, 6.375. 1630-2230.
 YV5RMO, Maracaibo, Venezuela, 5.850. Daily exc. Sun., 1700-2130.
 YV6RV, Valencia, Venezuela, 6.520; 1700-2200.
 YV7RAMO, Maracaibo, Venez., 5.810.
 YV8RB, Barquisimeto, Venez., 5.875.
 YV9RC, Caracas, Venez., 6.400.
 YV10RSC, San Cristobal, Venez., 5.720.
 ZBW, Hong Kong, 8.750.
 ZTJ, Johannesburg, Union of So. Afr., 6.100. Heard near midnight
 Pointoise, France, 11.720. 1800-2100; 2200-2400. 11.880: 1015-1315; 1400-1700. 15.250:

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A most unusual sporting event, the Jungfrau, was carried recently by Beromunster. Described as an Alpine Relay Race, the event started and finished at Zurich, covering virtually all of Switzerland. Runners covered the distance between Zurich and Milchbuck, where cyclists carried on to Eingang. At this point, runners again took over and went as far as Dubendorf, where the baton was passed to an airplane pilot. He flew to Jungfrauoch, high in the Alps. The distance from this point to Marjelensee was covered by skis, and then mountain-climbers carried on to Fiesch. Next, a motorcycle was used as far as Sitten, where a racing automobile took over. At Lausanne, another airplane was used on the return to Dubendorf, and then the final stages back to Zurich were covered by a runner, a cyclist and another runner.

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(If you live in Ohio, add 3% for State Sales Tax. No tax on Subscriptions.)

Write Name Plainly

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Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am surely making good money now. Maybe my story will show you the way to larger earnings also.

I THOUGHT RADIO WAS A PLAYTHING

But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!

\$40 a week! Man alive, a year ago I thought anyone making so much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

One day I picked up a magazine and an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio service business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it's all about."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would have sounded too good to be true if the promises had not been backed up by nearly 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream. I started to take their course and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$40 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio, Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

Friend—you may not be as bad off as I was—

but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book, "Rich Rewards in Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N.R.I. training. And at the same time they send the book "Rich Rewards in Radio" they'll send you, without any cost or obligation, a Free Lesson to prove that their training is easy, practical, fascinating. The lesson they send "Radio Receiving Troubles—the Cause and Remedy" is valuable. And when you see how simple this lesson is to understand you'll know why many fellows with less than a grammar school education have mastered N.R.I. training and are now making good money as Radio Experts.

You are not placing yourself under any obligation by writing for this material as they will gladly send it to anyone who is ambitious and wants to get ahead. Mail the coupon in an envelope or paste it on a 1c postcard. Just address Mr. J. E. Smith, President, National Radio Institute, Dept. 6A0, Washington, D. C.

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National Radio Institute
Dept. 6A0, Washington, D. C.

Dear Mr. Smith:

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Simply pushing Silencer Button silences set between stations. Beautiful tuning lights automatically indicate when station is properly tuned. Release button . . . and station comes in perfectly. Pressing Station Finder Button (Midwest's exclusive ROBOT EAR) automatically determines proper dial position for bringing in extremely weak stations.



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 "Your Midwest is a wonderful instrument. The tone quality is delightful and it surpasses any set I have ever owned. I have heard stations from all over the world. I got a thrill the first time I used it on the booming of 'Big Ben'."
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