

N.S.E.

THE JANUARY 1936

RADIO 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.

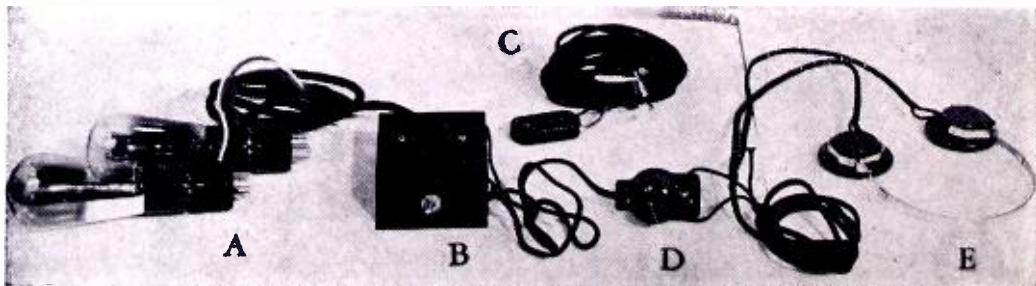
If you desire to regulate the volume of the set from a distance or cut out the "blurbs" or talks, you will need the Distant Volume Control (D). Price \$2.00.

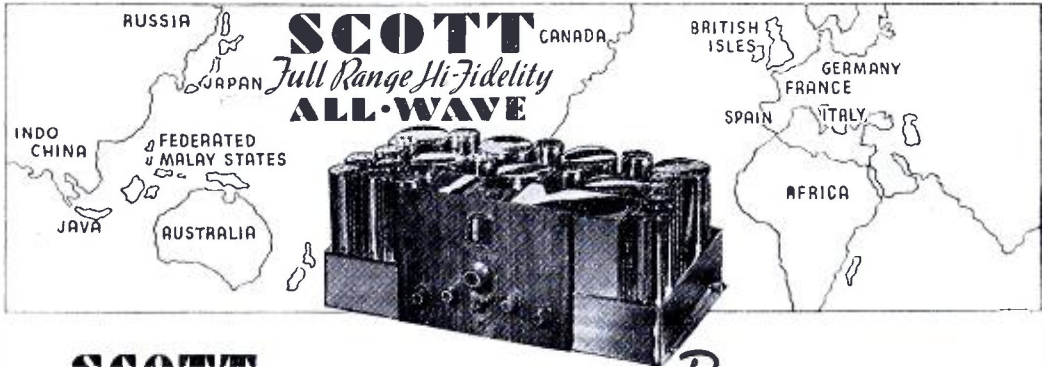
Trim Featherweight Head Phones of the very finest quality. \$8.05 postpaid. Others as low as \$2.75.

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!—Argentine, Australia, Belgium Congo, Bermuda, 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!**

More Important PERFORMANCE Features Than Any Other Receiver—including True Bass Control—True Separate Treble Control—23 Tubes, New Highest Efficiency Type—Oversize 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 Vallée—Al Jolson—and hundreds more. The **SCOTT** is the choice of Presidents and Princes all over the world.

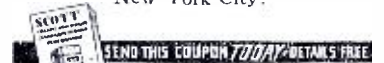
Unqualifiedly guaranteed to bring you more foreign stations with stronger volume, with more crystal clear tone, with less noise than any other receiver in the world—in your own home! 30 days' trial. You can own the **SCOTT** for no more than you would pay for an ordinary receiver.

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.
4424 Ravenswood Ave.
Dept. 15 A 6, Chicago, Ill.

Send "94 PROOFS" 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

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.

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

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

WIP 610	CRCK 1050	WFIL 560	WLW 700 ⁹	WTIC 1040	Blue Net	WICC 600	WTIC 1040 ²
11:00 p.m.	WBEN 900	WHCC 1430	WNAC 1230	11:05 p.m.	11:15 p.m.	11:30 p.m.	Midn't.
CFCF 600 ⁵	WCAE 1220	WBX 1200	WOR 710	WEEI 590	CBS Sun.	Red Net ²	WCAU 1170
CFRB 690	WEEI 590 ²	WJAS 1290	WPRO 630	11:10 p.m.	11:20 p.m.		WCKY 1490
	WFBR 1270	WKJC 1200	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
KPNF 890	8:15 a.m.	WHBU 1210	WISN 1120	WSM 650	KMBC 950	KPNF 890	KTBS 1450
6:15 a.m.	KFJM 1370	WIND 560	WJJD 1130	WTAX 1210	KSTP 1460	KFRO 1370	WGN 720
KFEQ 680	KGFK 1500	WJTL 1370	WJTL 1370	WTMV 1500	WDAF 610	KFRU 630	WHBY 1200
WBAP 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
6:30 a.m.	8:30 a.m.	WTAX 1210	WSIX 1210	KTBS 1450	KFEQ 680	WMFN 1210	WNBR 1430
KASA 1210	KGKB 1500	WTMV 1500	WTMV 1500	KWTO 560 ²	KFIZ 1420	WGL 1370	WNOX 560
KMBC 950	KLPM 1240	10:05 a.m.	WTRC 1310	1:30 p.m.	KFJZ 1370	6:30 p.m.	WSFA 1410
WHO 1000	KSD 550	KLPM 1240	XEWZ 1150	WLBC 1310	KFXR 1310	KASA 1210	WTCN 1250
6:45 a.m.	KSTP 1460	10:15 a.m.	WMBH 1420	WMBH 1420	KOMA1480 ⁵	KDLR 1210	9:15 p.m.
KWBG 1420	KWBG 1420	CJGX 630	KGGE 1010	1:45 p.m.	WHBU 1210	KFOR 1210	KFPW 1210
7:00 a.m.	WCCO 810	WBOW 1310	WBRC 930	KFDY 780	WHO 1000 ⁹	KWKC 1370	KSD 550
KABR 1420	WGPC 1420	WDOD 1280	WCLS 1310	KGEX 630	WIRE 1400	WDOD 1280	WFBM 1230
KFJZ 1370	WJBO 1420	WJMS 1420	WFBM 1230	WHEF 1500	WJJD 1130	WHO 1000	9:30 p.m.
KRNT 1320	WSFA 1410	10:25 a.m.	WHBY 1200	2:00 p.m.	WJTL 1370	WNBR 1430	KRNT1320 ²
WCCO 810	WTAQ 1330	WTCN 1250	WKBB 1500	WHBU 1210	WMBD 1440	WSGN 1310	KTBS 1450 ²
WIBW 580	8:45 a.m.	10:30 a.m.	WROK 1410	WJJD 1130	WOI 640	6:45 p.m.	WDOD 1280
WMT 600	KNOW 1500	KFOR 1210	WOWO 1160	WJTL 1370	WSM 650	KRGV 1260	WGBF 630 ^c
WTAD 900	WSGN 1310	KGDE 1200	12:20 p.m.	WTMV 1500	WTCN 1250	WKBH 1380	WIBW 580
WTCN 1250	9:00 a.m.	WDBO 1310	KPNF 890	2:15 p.m.	WTMV 1500	WSFA 1410	WOAI 1190 ²
KSO 1430	Red & Blue ^c	WIND 560 ²	WRTN 1370	KWBG 1420	5:15 p.m.	WCCO 810	9:45 p.m.
7:05 a.m.	CBS	10:40 a.m.	WTAX 1120	WBAP 800	WCCO 810	7:00 p.m.	WROK 1410
WSGN 1310	KGCA 1270	KFEQ 680	12:25 p.m.	WFAA 800	WMC 780	5:20 p.m.	10:00 p.m.
7:15 a.m.	WDAF 610	10:45 a.m.	KDLR 1210	WKEU 1500	KGGE 1010	5:30 p.m.	KVVO 1140 ²
KGGE 1010	WGST 890	WKEU 1500	12:30 p.m.	WNAD1010 ^b	KGFB 1010	CBS	WAVE 940
KPAC 1260	WHBU 1210	11:00 a.m.	KFEQ 680	2:20 p.m.	5:30 p.m.	Red & Blue	WBOW 1310
WHO 1000	WHBY 1200	KFJZ 1370	KFJM 1370	WCCO 810	6:00 p.m.	KASA 1210 ²	WJTL 1370
WKEU 1500	WIND 560	KFNF 890	KWTO 560	2:25 p.m.	7:00 p.m.	KFAB 770	WKBB 1500
7:20 a.m.	WKEU 1500	KSTP 1460	WAGF 1370	WTCN 1250	7:00 p.m.	KFJB 1200	WMBH 1420
WHB 860	WNOX 560	WHBU 1210	WIBA 1280	2:30 p.m.	7:15 p.m.	KPAC 1260	WTMV 1500
WOI 640	WOWO 1160	WSGN 1310	WJAG 1060	KSTP 1460	7:30 p.m.	WOAI 1190	WIRE 1400
7:30 a.m.	WTMV 1500	WTMV 1500	WKBH1380 ²	KVOS 1210	7:45 p.m.	WENR 870	WMBD 1440
KFRO 1370	WIND 560 ²	11:15 a.m.	WKEU 1500	WDAY 940	5:35 p.m.	KVOO 1140 ²	WNBK 1430
KGJZ 930	9:05 a.m.	WDAF 610	WNBR 1430	WIND 560	KVOO 1140 ²	WJMS 1420	WOAI 1190
KMBC 950	WILL 890	11:25 a.m.	12:35 p.m.	3:00 p.m.	WENR 870	7:45 p.m.	WMTV 1500
KSTP 1460	WRTN 1370	WDAY 940	WJMS 1420	KARK 890	CKY 960	7:45 p.m.	XENT 910
KWTO 560	9:15 a.m.	11:30 a.m.	12:45 p.m.	KFJB 1200	5:40 p.m.	7:45 p.m.	XEWZ 1150
WIBA 1280	KARK 890	KFPW 1210	KBTM 1200	WHBU 1210	5:45 p.m.	7:45 p.m.	10:05 p.m.
WDSU 1250	KFEQ 680	KRNT 1320	KFIZ 1420	WISN 1120	5:45 p.m.	7:45 p.m.	10:05 p.m.
XEFO 940	KPAC 1260	KWBG 1420	KFRO 1370	WLBC 1310	KFYO 1310	7:45 p.m.	10:05 p.m.
7:40 a.m.	KSTP 1460	WMT 600	KFYO 1310	WSGN 1310	WDAY 940	7:45 p.m.	10:10 p.m.
KFEQ 680	WLBC 1310	KSO 1430	KLPM 1240	WTMV 1500	WDSU 1250	7:45 p.m.	Blue Net
7:45 a.m.	WMBD 1440	11:45 a.m.	KRGV 1260	3:05 p.m.	WFBM 1230	7:45 p.m.	10:15 p.m.
KRGV 1260	9:30 a.m.	KABR 1420	KSTP 1460	KPNF 890	WKEU 1500	7:45 p.m.	CBS ²
KVOO 1140	KFIZ 1420	KASA 1210	WBAA 890 ⁹	3:15 p.m.	WNOX 560	7:45 p.m.	KLPM 1240
WNBR 1430	KFYO 1310	KGKB 1500	WBOW 1310	WGST 890	WTRC 1310	7:45 p.m.	KSTP 1460
WOAI 1190	KTBS 1450	KVOO 1140	WCCO 810	3:30 p.m.	5:50 p.m.	7:45 p.m.	WGBF 630 ⁹
7:50 a.m.	KTWO 560	WBAA 890	WHO 1000	KSTP 1460	KSTP 1460	7:45 p.m.	WHO 1000
KABR 1420	WJBC 1200	WCCO 810	WKBH 1380	WGBF 630 ^c	KFJM 1370	7:45 p.m.	WTCN 1250
KPNF 890	WJJD 1130	WDSU 1250	WLBC 1310	WHO 1000	5:55 p.m.	8:30 p.m.	10:30 p.m.
8:00 a.m.	WKBB 1500	WIND 560	WMFN 1210	3:45 p.m.	WMT 600	8:30 p.m.	Red Net ²
KARK 890	WMT 600	11:55 a.m.	WNOX 560	KABR 1420	6:00 p.m.	8:30 p.m.	WHO 1000 ⁹
KFAB 770	WTRC 1310	KFAB 770	WSFA 1410	WKEU 1500	KARK 890	8:30 p.m.	WRTN 1370
KFYO 1310	CBS ²	WOAI 1190	WTCN 1250	WTAX 1210	KFEQ 680	8:30 p.m.	10:45 p.m.
KGFW 1310	9:45 a.m.	Noon	1:00 p.m.	4:00 p.m.	KVOL 1310	8:30 p.m.	WIND 560
WDAY 940	KMBC 950	CJGX 630	CKY 960	KBTM 1200	KWTO 560 ^a	8:30 p.m.	11:00 p.m.
WFBM 1230	WJBO 1420 ²	KARK 890	KCCR 1360	WHBU 1210	WHBY 1200	8:30 p.m.	KMBC 950
WJJD 1130	KDLR 1210	KGEX 630	KFOR 1210	WTMV 1500	WJBO 1420	8:30 p.m.	WGN 720
WJTL 1370	10:00 a.m.	KGNE 1430	KGKL 1370	4:15 p.m.	WTAQ 1330	8:30 p.m.	WJTL 1370
WKBB 1500	KFVS 1210	KMBC 950	KRNT 1320	KWTO 560	WTAX 1210	8:30 p.m.	WTMV 1500
WKBH 1380	KLCN 1290	KVOL 1310	WCBS 1420	WHB 860	WTMV 1500	8:30 p.m.	XENT 910
WMBH 1420	KVOS 1210	WGPC 1420	WDOD 1280	WJAG 1060	6:10 p.m.	8:30 p.m.	Midn't.
WMFN 1210	WCCO 810	WHB 860	WHBU 1210	4:30 p.m.	KLPM 1240	8:30 p.m.	KSTP 1460

MOUNTAIN STANDARD TIME

6:00 a.m.	CHWC 1010	CHAB 1200	CKCK 1010	KICA 1370	KGVO 1260	12:30 p.m.	2:30 p.m.
KFKA 880	KFEL 920	CKBI 1210	10:00 a.m.	KLZ 560	KGIR 1340	KFKA 880	KDYL 1290
7:45 a.m.	KVOR 1270	9:15 a.m.	KOY 1390	Noon	KIUP 1370	KGEE 1310	KSUN 1200
KGKY 1500	8:15 a.m.	KDYL 1290	10:30 a.m.	KFEL 920	XEAF 990	1:00 p.m.	3:15 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.	12:15 p.m.	KOY 1390	KVOR 1270	3:30 p.m.
Red & Blue ^c	8:30 a.m.	KIUP 1370	XETB 1310	KFBB 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.	Red & Blue	6:00 p.m.	6:30 p.m.	CHWC 1010	8:30 p.m.	KVOR 1270	CFCN 1030
KLZ 560	CBS Net	KFKA 880	KGCX 1310 ⁹	CJCJ 690	KDFN 1440	9:15 p.m.	KDYL 1290
4:00 p.m.	KIDW 1420	KOY 1390	6:45 p.m.	KVOR 1270	8:45 p.m.	Blue Net²	KGHL 780
CHWC 1010	5:00 p.m.	6:15 p.m.	KDFN 1440	XEFV 1210	XEAF 990	CBS Net ²	KOY 1390
KFEL 920	KVOR 1270	CHAB 1200	7:00 p.m.	8:15 p.m.	9:00 p.m.	9:30 p.m.	11:00 p.m.
KICA 1370	5:30 p.m.	KGEZ 1310	KFEL 920	KICA 1370	CJRM 540	Red Net²	KTAR 620
4:30 p.m.	KDFN 1440	KGVO 1260	8:00 p.m.	KLZ 560	KTSM 1310	10:00 p.m.	

PACIFIC STANDARD TIME

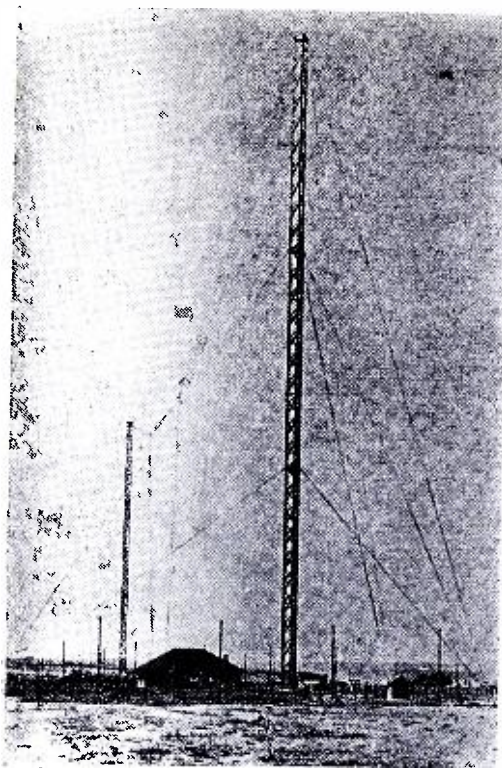
6:00 a.m.	8:30 a.m.	10:15 a.m.	KOL 1270	KRSC 1120	KELW 780	7:00 p.m.	KGFJ 1200 ²
KJBS 1070	CRCV 1100	KELW 780	KREG 1500	KGFJ 1200 ²	KMPC 710	KGFJ 1200	W6XAI 1550
KRSC 1120	KGFJ 1200	10:20 a.m.	KVI 570	2:15 p.m.	5:45 p.m.	KIT 1310	9:30 p.m.
6:30 a.m.	KXRO 1310	KLX 880	KVOS 1200	KGDM 1100	KOOS 1390 ^a	KLX 880	KLX 880
KOIN 940	8:45 a.m.	11:00 a.m.	W6XAI 1550	3:00 p.m.	KGFJ 1200	KRKC 1120	KUJ 1370
6:45 a.m.	KOIN 940	KRSC 1120	12:20 p.m.	KJBS 1070	KQW 1010	5:50 p.m.	KRRC 1120
KRLC 1420	KWJJ 1040	11:15 a.m.	KIT 1310	KQW 1010	KRSC 1120	6:00 p.m.	KIT 1310
7:00 a.m.	9:00 a.m.	KOIN 940	12:30 p.m.	KRSC 1120	3:15 p.m.	KJBS 1070 ^a	KVOS 1200
CBS Net	KFRC 610	11:30 a.m.	KFPY 890	KGFJ 1200	KROW 930	KXRO 1310	KYA 1230
Red & Blue^a	KFXM 1210	CJAT 910	KIEM 1210	3:30 p.m.	KFXO 1250	8:00 p.m.	KVI 570 ^a
KGDM 1100	KOOS 1390	KRKD 1120	KOOS 1390	CBS Net	KQW 1010 ²	KFPY 890	10:00 p.m.
KQW 1010	KRSC 1120	11:45 a.m.	KPQ 1500	Red & Blue	KRSC 1120	KRSC 1120	KFI 640
KRSC 1120	KWG 1200	KGHF 1200	KRLC 1420	3:45 p.m.	KFXM 1210	KUJ 1370	KFOX 1260
KUJ 1370	9:15 a.m.	Noon	KTRB 740	KFPY 890	KOIN 940	8:15 p.m.	KFRC 610
7:15 a.m.	KOL 1270	KFJR 1300	KXRO 1310	4:00 p.m.	KECA 1430	CBS Net²	KFXM 1210 ^a
KERN 1370	KVOS 1200	KFRC 610	12:45 p.m.	KFRC 610	KGFJ 1200 ²	Blue Net²	KGB 1330
KFBK 1490	KGDM 1100	KJBS 1070	CKOV 630	KRSC 1120	XEMO 860	8:30 p.m.	KHJ 900
KMJ 580	9:30 a.m.	KQW 1010	KFXM 1210	4:15 p.m.	6:30 p.m.	Red Net²	KOMO 920
7:30 a.m.	KJR 970	KROW 930	1:00 p.m.	KRSC 1120	CHWK 780	CKCD 1010	10:30 p.m.
CBS Net ²	KMPC 710	KRSC 1120	KGFJ 1200	4:45 p.m.	KOIN 940	9:00 p.m.	CRCV 1100
7:45 a.m.	9:45 a.m.	KUJ 1370	KOIN 940	KWJJ 1040	KFXM 1210 ^a	KECA 1430	10:45 p.m.
KFPY 890	KFI 640	12:05 p.m.	KRSC 1120	4:45 p.m.	KJR 970	KFSD 800	KGFB 1200
KRKD 1120	KFOX 1250	12:10 p.m.	KJBS 1070 ²	KGFJ 1200 ²	KPQ 1500	KIEM 1210	KKA 760
KIT 1310	KPQ 1500	CHWK 780	KMPC 710	5:00 p.m.	KQW 1010	KJR 970	11:00 p.m.
KRSC 1120	10:00 a.m.	CKWX 1010	1:45 p.m.	KFJR 1800	KREG 1500	KQW 1010	KFPY 890
KUJ 1370	KJBS 1070	12:15 p.m.	CHWK 780	KRSC 1120	KUJ 1370	KROW 930	11:45 p.m.
8:15 a.m.	KQW 1010	KECA 1430	KRKD 1120	KGDM 1100	6:45 p.m.	KRSC 1120	KROW 930
KROW 930	KUJ 1370	KHSL 950	2:00 p.m.	5:30 p.m.	W6XAI 1550	9:15 p.m.	

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

January 5				2:30-3:30	KFRO 1370	Longview, Tex.	CDXR
12:01-13:30	WAPI 1140	Birmingham, Ala.	CDXR	2:31-2:39	CKCW 1370	Moncton, N.B.	
✓ 1:00-2:00	CMKC 1250	Santiago, Cuba	NNRC	3:00-5:00	WHAZ 1300	Troy, N.Y.	
2:00-3:00	CJLS 1310	Yarmouth, N.S.	NNRC		CJAT 910	Trail, B. C.	NNRC
✓ 2:00-4:00	CHAB 1200	Moose Jaw, S.	MCDXE	3:01-3:00	CHNC 1410	New Carlisle, P.Q.	
2:15-2:45	WTBO 800	Cumberland, Md.		4:00-5:00	WGBF 630	Evansville, Ind.	CDXR
3:00-5:00	CJOC 1230	Lethbridge, Alta.	NNRC	January 26			
3:00-6:00	FCC	Frequency Checks		12:01-3:00	WPAR 1420	Parkersburg, WVa.	CDXR
6:00-7:00	KMBC 950	Kansas City, Mo.	CDXR		WTMV 1500	E.St. Louis, Ill.	MCDXE
January 12				2:00-4:00	WJBO 1420	Baton Rouge, La.	
✓ 2:00-3:00	KFRO 1370	Longview, Tex.	NNRC	3:00-4:00	KWCB 1220	Pullman, Wash.	CDXR
2:00-4:00	WJBO 1420	Baton Rouge, La.		January 5, 12, 19, 26			
2:30-4:30	KID 1320	Idaho Falls, Ida.	NNRC	✓ 1:00-3:00	CMJA 1010	Camaguey, Cuba	
2:40-3:00	CKCW 1370	Moncton, N. B.	NNRC	✓ 1:00-5:00	KIUP 1370	Ourango, Colo.	
3:00-5:00	WEEU 830	Reading, Pa.		2:00-4:00	XEWZ 1150	Mexico City, D.F.	CDXR
3:20-4:00	CJIC 1500	S. Ste. Marie, Ont.	NNRC	3:00-4:00	CKWX 1010	Vancouver, B.C.	
3:40-4:00	CKX 1120	Winnipeg, Man.	NNRC	3:00-4:30	CKOV 630	Kelowna, B.C.	
4:00-5:00	WOL 1310	Washington, D. C.		Monday Mornings			
4:00-6:00	WJAS 1290	Pittsburgh, Pa.	CDXR	January 6			
4:30-6:00	WHJB 620	Greensburg, Pa.	CDXR	2:00-8:30	FCC	Frequency Checks	
	KQV 1380	Pittsburgh, Pa.	CDXR	2:45-3:00	KUJ 1370	Walla Walla, Wash.	
4:40-5:00	CKFC 1410	Vancouver, B. C.	NNRC	✓ 3:00-4:00	XEFJ 1440	Chihuahua, Chi.	CDXR
January 19				January 13			
✓ 1:00-2:00	CMKC 1250	Santiago, Cuba	CDXR	3:30-3:30	KID 1320	Idaho Falls, Ida.	
1:01-1:09	CRCS 950	Chicoutimi, P.Q.		3:00-6:00	CMOX 1320	Havana, Cuba	
1:11-1:19	CJCB 1240	Sydney, N.S.		January 20			
1:21-1:29	CHNS 930	Halifax, N.S.		1:01-1:09	CRCS 950	Chicoutimi, P.Q.	
1:31-1:39	CHRC 580	Quebec, P.Q.		1:11-1:19	CJCB 1240	Sydney, N.S.	
1:41-1:49	CFCY 630	Charlottetown, P.E.I.		1:21-1:29	CHNS 930	Halifax, N.S.	
1:51-1:59	CJLS 1810	Yarmouth, N.S.		1:31-1:39	CHRC 580	Quebec, P.Q.	
2:11-2:19	CHSJ 1120	St. John, N.B.		1:51-1:59	CJLS 1310	Yarmouth, N.S.	
				2:01-2:09	CFNB 550	Fredericton, 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.

✓ 2:30- 3:00	WCMI	1310	Ashland, Ky.	
	WHBQ	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	W1XBS	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	WMBI	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

✓ 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	Fredericton, 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
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 8			
✓ 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

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

A LARGE 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 short-wave 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 aeri-als.

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.

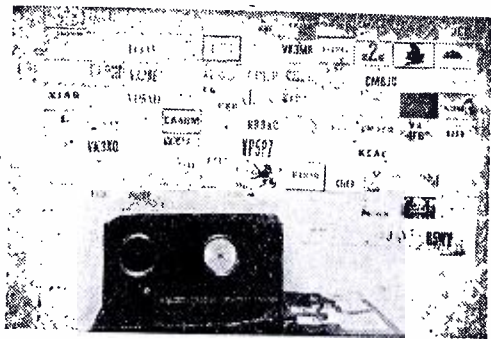
About the Programs

"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 kcys, 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 kcys, 500 watts; and the second is JOIG, Toyama, 1060 kcys, 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 OAX4I, Radio Internacional. They transmit on 1100 kcys 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 kcys, 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 kcys. 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?" inquires 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 WFAF, WJZ, WABC, KVOO, WFAA - WBAP, WIND, WTMJ, WSM, WOR, WGY, WCCO, WHAS, WLS, WCFL, WBZ, KYW, WTIC, KMOX and so on on 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 correspondance," 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

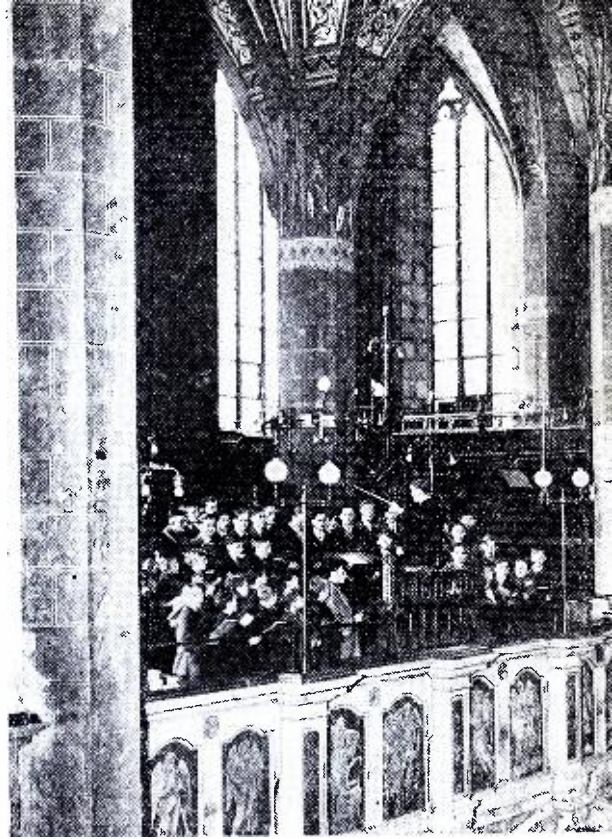
set a bum aerial and lead-in, yet in a week's time I received 25 stations on the broadcast band, including WCCO, WBT, KOA, WFAA, WBAP, WOAI, KSL, KVOO, XEPN, XENT, XEAW and WSM. I haven't tried to get a verification from any of these but I identified them all."

"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 at 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 fla-

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 TP, 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.

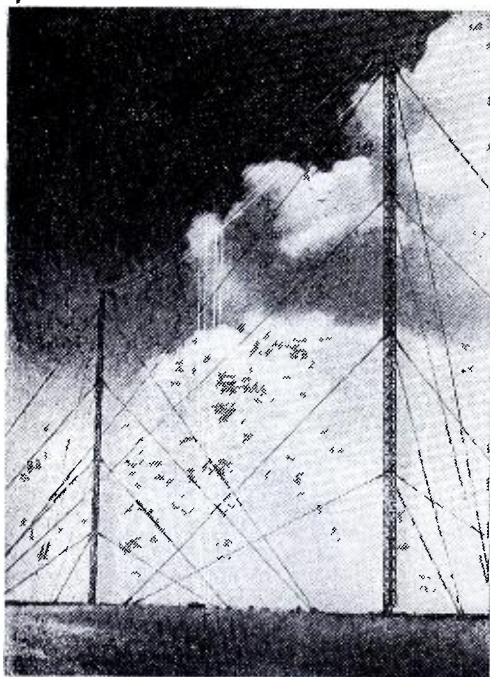
Getting down to some real DX, a listener cannot help but be impressed by the fine selectivity of the Scott receiver. Time and again, powerful local stations, many of them

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-kcy station at Zagreb, Yugoslavia, was tuned right through the 1090 locals. Montpelier, 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.

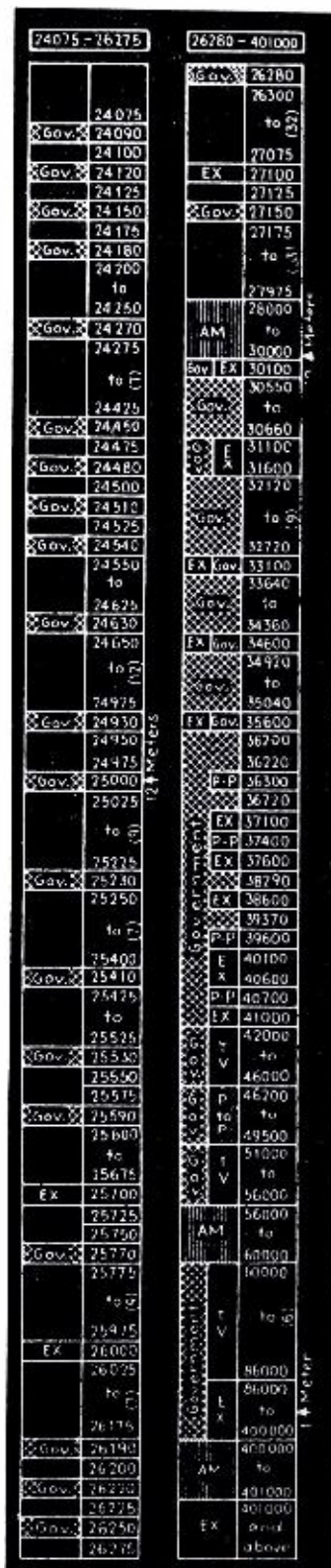
Channels on which maximum night power will be 1,000 watts and day power 5,000 watts: 1010, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1320, 1330, 1340, 1350, 1360, 1380 and 1390 kcs.

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 Pczos 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 Tiajuana, Lower California, there is a high frequency station retransmitting 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

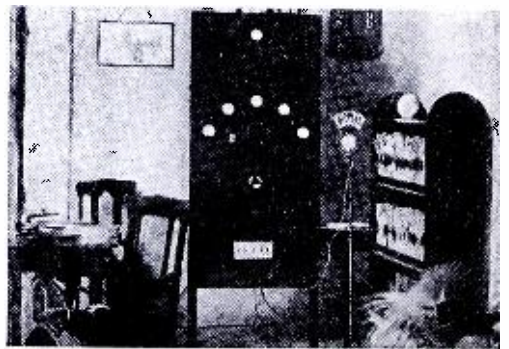
"The operators of station VDC at Calgary sent me a letter, the tenor of which seems to indicate my report to them was correct. This station works with VDV at Two Brothers Lake, B. C., and with a 5-watt code station VDW at Takla Landing, B. C. They all work on 4490 kcs. and are owned by the Two Brothers 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, OZO, 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

KIIY, 2726 kcs., and KINT. KIIY 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, EST. 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 kcs. 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, Wisc., write, "I have just been listening to a new station in Tegucigalpa, Honduras, on 5875 kcs. 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 kcs."

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 kcs. 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 W8XK, 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 YNIGG. 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.

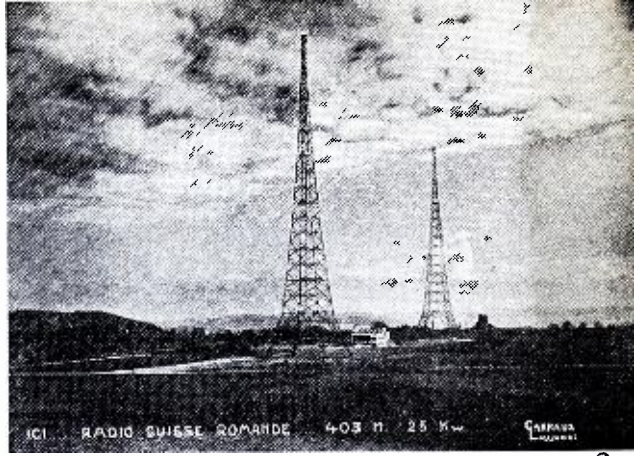
"On a QSL card from PRA8 they state that they transmit on 49.67 meters or 60.40 kcs. with a power of 3 kw.," contributes Miguel A. Rivera, P. O. Box 480, Hong Kong. "Hong Kong is wrongly listed as transmitting on 6750; they actually work on 8750 kcs. The Hong Kong Broadcasting Committee has reserved 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

ou 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. "WWTA 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."

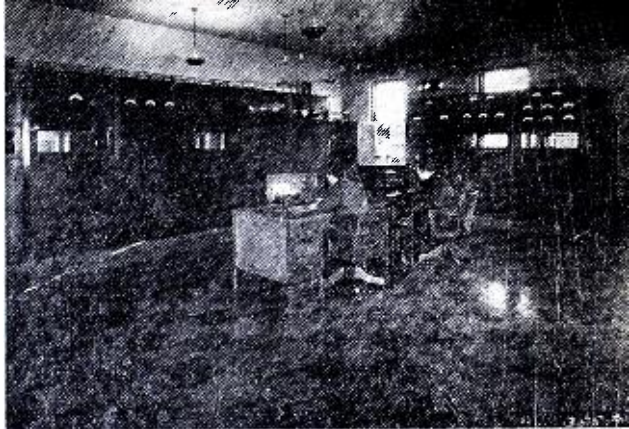
"Upon writing to the police department at Augusta, Ga., I obtained the following information which is not in RADEX," reports Robert House, Jr., Chapel Hill, N. C. "The call sign of this station is WQFB and the power is 250 watts. I wish also to report reception of W10XF at Rapid City, S. Dak., on 6350 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 Tijuana 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 18 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 4½ 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.

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

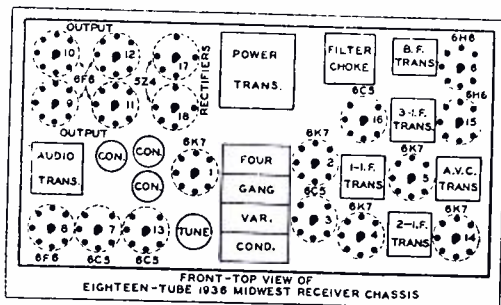
In the October issue, we gave the hours on the air for the stations on Sundays; in November, for Saturdays; and last month the hours for the week-days. This completes the schedules. In February we are planning, provided it can be worked out in the space we can allot to it, to give a complete resume for 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.



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-

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 Polland, 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.

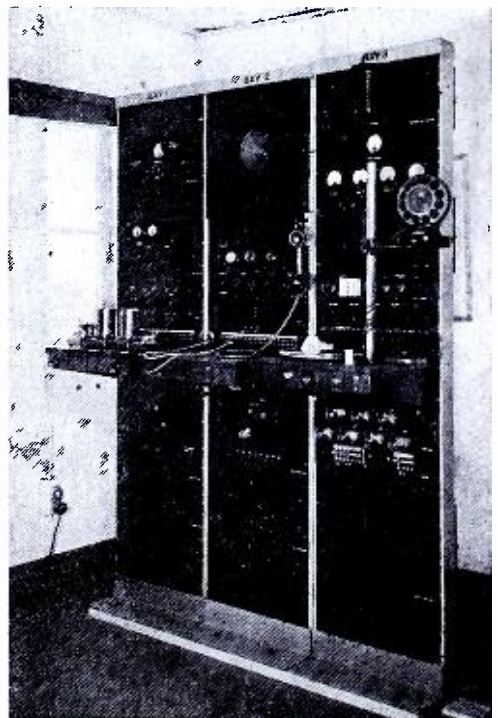
WKJC, Lancaster, Pa., has changed its call to WEST and moved to Easton, Penna.

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!*"

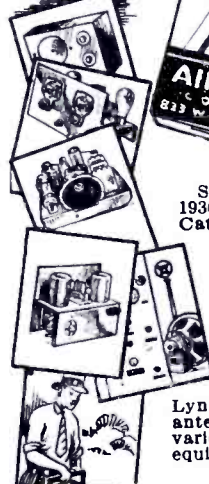
It is to be trusted that no DXer will attempt to "stand the FCC on its head for once." The governing body in Washington is not to be bullied by anybody, and our only hope for consideration and possible action in our favor lies in a policy of tact and intelligence.

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, WEA 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

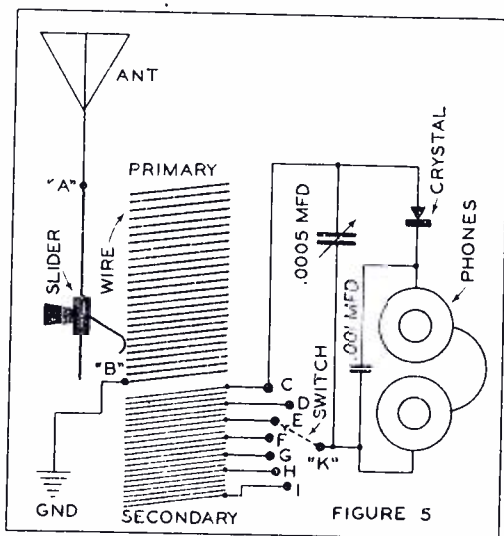
But how shall we separate the primary (indicated in Figure 4, page 6, of the October, 1935, issue of RADEX, between the point "A" and the slider "B") from the secondary (between the slider "C" and point "A")? One simple method is to use a single-slide tuner (shown in Figure 3) with the slider connected 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

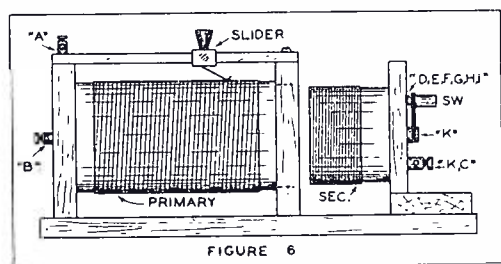
A secondary of 100 turns can be divided into ten sections, each containing ten loops of wire. In this case, wires lead from the points where adjacent sections connect to taps or switch points. Thus, in Fig. 5, we see a secondary coil that is divided into six sections, and having corresponding taps taken 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

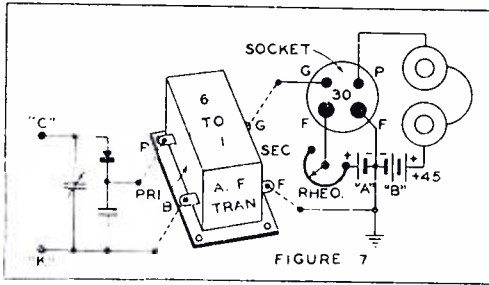
Signals heard on a crystal set, even when the tuning is the best, are never very strong. Only the power of the original antenna current is available; there is no amplification of the signal in any way. However, the tone is excellent and natural. So, if we can provide for the amplification of these clear 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.



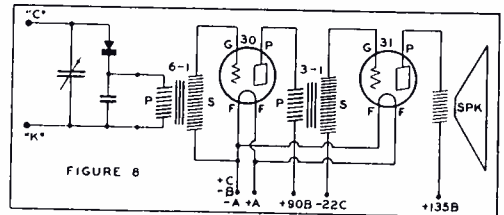
The secondary of such a transformer is connected to a 4-contact tube socket, as shown in Figure 7. The "G" terminal of the secondary is connected to "G" or the grid contact of the socket; the remaining terminal of the secondary ("F") is attached to the -A or the "F" (filament) contact of the socket. 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-3:30
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 WDRC WEAN
 WFBL WGR WHEC 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
 WMAL WOOD WRVA WSYR WTAM
 WXYZ

E-7:00 p.m., C-6:00, M-5:00, P-4:30
C — Myrt and Marge
 WABC WADC WBT WCAO WCAU
 WDAE WDBO WDRC WEAN WFBL
 WGR WHK WJAS WJR WJSVWKRC
 WNAC WOKO WQAM WSPD WTOC
 WVVA

R — Amos 'n' Andy
 CRCT KSD KYW WBN WCAE
 WCSH WEAF WEEI WFBR WGY
 WJAR WLW WRC WTAG WTAM
 WVIC WWJ

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Vocals by Verrill
 CFRB CKAC KFH KGKO KLRA
 KLZ KMBC KOMA KSCJ KTRH
 KTSB KVOR KWKH WAAB WABC
 WALA WBT WCAO WCCO WDAE
 WDBJ WDBO WDNC WDOB WEAN
 WFBM WFEA WGR WGST WHEC
 WIBW WICC WISN WJR WKBN
 WLAC WLBZ WMAS WMBG WMBR
 WNOX WOKO WORC WQAM WREC
 WSBT WSSJ WSPD WTOC

R — Uncle Ezra's Radio Station
 KYW WBN WCAE WCSH WDAF
 WEAF WEEI WFBR WGY WHIO
 WIRE WJAR WMAQ WOW WRC
 WSAI WTAG WTAM

B — Ivory Stamp Club
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WCKY WENR WFIL WGAR
 WHAM WJZ WMAL WMT WSYR
 WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Singing Sam
 KFAB KMOX KRNT WABC WADC

WBBM WCAO WCAU WCCO WDRC
 WEAN WFBL WFBR 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
 WBBM WBT WCAO WCAU WCCO
 WDRC 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 WMAL 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 WDOB WDRC WEAN WFBC
 WFBL WGR WHEC WHP WIBX
 WICC WJAS WJSV WLAC WLBZ
 WMAS WMBG WNAC WNBFWNOX
 WOKO WORC WPG WREC WSJS
 WWL WVVA

R — Hammerstein's Music Hall
 KSD KYW WBN WCAE WCSH
 WDAF WEAF WEEI WFBR WGY
 WHO WHIO WJAR WMAQ WGW
 WRC WSAI WTAG WTAM WVIC
 WWJ

B — Fibber McGee and Molly
 KDKA KDYL KFI KFSD KFYP
 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
 WKY WLS WMAL WMC WMT
 WQAI WREN WWSB 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 WBBM WCAO WCAU
 WDRC WEAN WFBL WFBM WGR
 WGST WHAS WHEC WHK WJAS
 WJR WJSV WKRC WMAS WNAC
 WOKO WORC WSPD

R — Voice of Firestone
 CFBC CRCT KFYP KPRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBN WCAE WCSH WDAF WDAY
 WEAF WEBC WEEI WFAA WFBR
 WFLA WGY WHO WHIO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WKY WMAQ WMC WQAI
 WOW WPTF WRC WRVA WSB
 WSM WSMB WSOC WTAG WTAM
 WTAR WVIC WTMJ WWJ WWNC

B — Evening in Paris
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WCKY WFIL WGAR WHAM
 WJZ WLS WMAL 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
 KFBC KFPY KFRC KGB KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOIN KOL KOMA KRLD KRNT
 KSL KTRH KTSB KTUL KVI KWG
 WABC WADC WBBM WBNB WBRB
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDRC WEAN WFBL WFBM
 WGST WHAS WHEC WHK WICC
 WISN WJAS WJR WJSV WKBW
 WKRC WLAC WNAC WNAX WOKO
 WORC WQAM WREC WSPD WWL

R — A. & P. Gypsies
 KSD KYW WBN WCAE WCSH
 WDAF WEAF WEEI WGY WHO
 WHIO WIRE WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WVIC
 WWJ

B — Sinclair Greater Minstrels
 KDKA KDYL KFYP 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 WMAL
 WMC WMT WQAI WPTF WREN
 WRVA WSB WSM WSMB WSOC
 WSUN WSYR WTAR WTMJ WWNC
 WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Grace Moore
 KDYL KFI KFSD KFYP KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 KVOO KYW WAVE WBN WCAE
 WCSH WDAF WDAY WEAF WEBC

MONDAY (Continued)

WEEI WFBR WFLA WGY WHO
WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WTAG WTAM WTAR WVIC
WTMJ WWJ WNNC

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
KFRC 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 — Contented Program

CFCF CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYW
WBEN WCAE WCSH WDAF WFAF
WEEI WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSAI WSB WSM
WTAG WTAM WTAR WVIC WWJ
WVNC

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

C — March of Time
KDB KERN KFAB KFBK KFPY
KFRC 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 WFEA
WHEC WHK WIBX WJAS WKBN
WKBW WLBZ WMAS WOKO WORC
WPG WSBT WSPD

C — Myrt and Marge

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

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTHS WBAP
WDAF WHO WKY WMAQ WMC
WOAI WOW WSB WSM WSMB

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

C — Singing Sam
KDB KERN KFBK KFPY KFRC
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 WBCR WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDOE WDRC WEAN WFBL

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

C — Pick and Pat

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

R — Voice of Firestone

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

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 K TSA
KVOR KWKH WAAB WABC WACO
WALA WBBM WBIG WBCR WCAO
WCAU WDAE WDBJ WDBO WDNC
WDOE WDRC WESG WFBL WFBM
WFEA WGR WGST WHEC WIBX
WJR WKBN WLAC WLBZ 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
WBCR WCAO WDAE WDBJ WDBO
WDNC WDOE WFBL WGST WIBX
WJSV WKBN WLAC WLBZ 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 WBEN
WCAE WCSH WDAF WDAY WFAF
WEEC WEEI WFBR WGY WHIO
WIBA WIRE WJAR WMAQ WOW
WRC WSAI WTAG WTAM WWJ

C — Schulte Smoker; Rube Goldberg
WABC WBBM WCAO WCAU WDRC
WEAN WFBL WHEC WHK WICC
WJAS WJSV WMAS WNAC WOKO
WQRC

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
WBCR WBT WCAO WCAU WCCO
WDAE WDRC WEAN WFBL WFBM
WGR WGST WHAS WHK WISN
WJAS WJR WJSV WKBN WKRC
WLBZ 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 KTRH
KVOO KYW WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WFAF
WEEC WEEI WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WVIC WTMJ
WWJ WNNC

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 KFH KFPY KFRC KGB
KGKO KIJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
K TSA KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBIG WBNS WBCR WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOE WDRC WEAN
WFBL WFBM WGR WGST WHAS
WHEC WHK WHP 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 KTRH
KVOO KYW WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WFAF
WEEI WGY WHO WIBA WIRE
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WSAI WSB WSMB
WTAG WTAM WTAR WVIC 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 KFH KGKO KLRA KMBC
KMOX KOMA KRLL KRNT KSCJ
KTRH K TSA KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBCR WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOE WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJR WJSV WKBN WKBW WKRC
WLAC WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WOWO 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 WBEN
WCAE WCSH WFAF WEEI WFBR
WGY WHO WHIO WIRE WJAR

TUESDAY (Continued)

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

B — Ben Bernie and Orchestra
KDKA KOIL KPRC KSO KTBS
KTHS KVOO KWK WBAL WBAP
WBZ WBZA WFIL WFLA WGAR
WHAM WIOD WIS WJAX WJZ WKY
WIS WLW WMAL WMT WOAI
WPTF WREN WRVA WSOC WSYR
WTAR WWNC WXYZ

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

C — Fred Waring's Pennsylvanians
CFRB CKAC KFAB KFH KGKO
KLRA KLZ KMBC KMOX KOH
KOMA KRLL KSCJ KSL KTRH
KTSA KTUL KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WCSC WDAE WDRJ
WTBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WJBW 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

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

B — Helen Hayes, Drama

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

E-10:30 p.m., C-9:30, 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 WBEN WCAE
WCSH WDAF WDAY WEAF WEBC
WEEI WFBR WGY WHO WHIO
WIBA WJAR WKY WLW WMAQ
WOAI WOW WRC WTAG WTAM
WTIC 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 WDOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHCC WHK WIBX WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLBZ WMAS WMBD
WMBG WMBR WNAX WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOG

C — Walter O'Keefe; Glen Gray

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

R — Leo Reisman and Orchestra

KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KTAR

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 KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WACO
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WLAC WMBG WNAC
WOKO WSPD WWL

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KVOO KYW WAVE
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEI 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
WTIC WTMJ WWJ WWNC

B — Rendezvous; Phil Duesy
CRCT 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 — Burns and Allen
CFRB CKAC KFAB KFH KLRA
KMBC KVOX KOMA KRLL KRNT
KSCJ KTRH KTSA KTUL KWKH
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHCC WHK WHP WJBW WIBX
WICC WJAS WJR WJSV WKRC
WLAC WLBZ 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
WWNC WXYZ

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

C — Chesterfield Program

KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWG KWKH
WABC WAC) WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WJBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKB V WKRC WLAC WLBZ
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 WEEI 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 WTIC WTMJ WWJ WWNC

B — John Charles Thomas

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WFIL WGAR
WHAM WIRE WJZ WLS 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 KDB KERN KFAB KFBK
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ K WBC KMJ KMOX KOH
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSA KTUL KVI
KWG KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDBO WDOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHCC WHK WHP WJBW
WIBX WICC WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLBZ
WMBD WMBG WMBR WNAC

Wednesday (Continued)

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

B—Warden Lawes, Sing-Sing Drama
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WIRE WJZ WMAL
WMT WREN WSYS 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 KRLD
KSCJ KTRH K TSA 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 WHEC 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 WCSH WDAF WFAF
WEEI WFAA WFBW WGY WHIO
WJAR WKY WMAQ WQAI WOW
WRC WSAI WTAG WTAM WTIC
WVJ

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 WSYS 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 K TSA
KVOR KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRC WFBL
WFBM WFEA WGR WHAS WHEC
WHK WIBW WIBX WICC WJAS
WJSV WKRC WLAC WLBZ 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
CKAC KLRA WAAB WABC WADC
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOD
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WICC
WJAS WJR WJSV WKBW WKRC
WLAC WLBZ WMBG WMBR WNOX
WOKO WORC WQAM WREC WSPD
WTOC

C—Burns and Allen

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

B—House of Glass

KDYL KFI KFJR KOA KOMO KPO

KPRC KTBS WAPI WAVE WBAF
WDAY WIBA WIRE WJDX WKY
WMC WOAI WSB WSM WSMB
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 WDOD WFBL WGST
WHEC WIBX WJSV WLAC WBLZ
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
CFRC CRCT KDYL KFI KFJR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEN WCAE
WCSH WDAF WDAY WFAF WIBC
WEEI WFBW WGY WHIO WJAR
WLW WMAQ WOW WRC WTAG
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 KFSD KFJR KGH
KGIR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEI WFBW WGY WHIO
WJAR WLW WMAQ WOW WRC
WTAG WTAM WTAR WTIC
WTMJ WWJ WWC

B—Death Valley Days

KDKA KOIL KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYS 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 KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA

KRLD KRNT KSL KTRH K TSA
KVI KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGST WHAS WHEC
WHK WHP WISN WJAS WJR WJSV
WKBV 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 KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH K TSA
KTUL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDBO WDRC WFBL WFBM
WGST WHAS WHK WISN WJAS
WJR WJSV WKBW WERC WLAC
WMBG WNAC WNAX WOC WOKO
WQAM WREC WWL

R—Paul Whiteman's Music Hall

CFRC CRCT KDYL KFI KFJR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KYW WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEI WFBW 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
WTJ 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, Ne vs Exchange
CFRB CKAC KFH KGKO KHJ
KLRA KMOX KRLD KRNT KSCJ
KTRH K TSA KVOR KWKH WABC
WACO WADC WALA WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDOD
WDRC WFBL WFBM WFEA WGR
WHAS WHEC WHK WIBW WIBX
WICC WISN WJAS WKBW WKRC
WLAC WLBZ 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
WALB WHK WIBX WJSV WKBW
WKBW WLBZ 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 WDRC WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLBZ 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 KTSA KQOR KWKH WAAB
WABC WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WDAE WDBJ WDHO WDNC WDOD
WFBL WFBM WGST WHCC WHK
WISN WJAS WJSV WKBW WLAC
WLBZ WMBR 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 WHEC WHK
WIBW WICC WJAS WJR WJSV
WKRC WLBZ WMAS WMBD WNAC
WOC WOKO WORC WSPD

R — Cities Service Concert

CRCT KOA KPRC KSD KSTP KTBS
KTHS KYW WBEN WCAE WCSH
WDAF WDAF WEBC WEEI WFAA
WFBM WGY WHO WHIO WIOD
WJAR WKY WMAQ WOAI 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
KFRC 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 KFSD 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 KDB KERN KFAB
KFBC KFH KFPY KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSA KTUL KVI
KQOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDOD
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNAC WNAX WNOXWOKO WORC
WPG WQAM WREC WSPD WWL

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

B — Palmolive Beauty Box Theatre
CFCF KDKA KFJR 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 WOAI
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 KFSD KGW KOA KOMO
KPO KSD KTAR KYW WBEN
WCAE WCSH WDAF WEEI WFBM
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
KTSA 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 KFSD KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KVOO KYW WBEN WCAE
WCSH WDAF WDAF WEBC WEEI
WFAA WFBM WFLA WGY WHO
WIOD WJAR WJAX WKY WLW
WMAQ WMC WOAI WOW WRC
WRVA WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WWNC

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 KFJR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WFAA
WFBM WFLA WGY WHO WIOD
WIS WJAR WJAX WJDX WKY WMAQ
WMC WOAI 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 KTSA
KQOR KWKH WAAB WABC WACO
WADC WALA WBIG WBNS WBT
WCAO WDAE WDBJ WDHO WDNC
WDOD WDRC WFBM WFEA WGR
WHEC WHK WIBW WIBX WICC
WISN WJAS WJSV WKRC WLAC
WLBZ 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
WDOD WDNC WDOD WDRC WFBL
WFEA WGST WHEC WHK WIBX
WISN WJAS WJR WKBW WLAC
WLBZ 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 WDOD
WDNC WDOD WDRC WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICWJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMAS
WMBG WMBR WNOX WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

B — Palmolive Beauty Box Theatre
KDYL KFI KFSD 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 KTSA KQOR KWKH WAAB
WABC WACO WADC WALA WBBM
WBIG WBRC WBT WCAO WCCO
WDAE WDBJ WDOD WDNC WDOD
WESG WFBL WFBM WGST WHEC
WHK WIBW WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLBZ WMBG 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 KQOR KWKH WAAB WABC
WACO WADC WALA WBBM WBIG
WBRC WCAO WCAU WDAE WDBJ
WDOD WDNC WDOD WDRC WESG
WFBL WFBM WFEA WGST WHEC
WHK WIBW WIBX WICC WISN
WJR WJSV WKBW WLAC WLBZ
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 WADC WBIG WBNS WBRE
WBT WCAO WCAU WCBW WDAE
WDBJ WDBO WDRC WEAN WFBG
WFBL WGBI WGR WGST WHEC
WHK WHP WIBX WICC WJAS
WMAS WMBG WMBR WNAC
WNBF WOKO WORC WQAM
WRAK WSJS WTOC WVVV

R — Old Gold Sport Page

KDYL KFJR KOA KPRC KSD
KSTP KTBS KYW WAPI WAVE
WBAP WBEN WCAE WCSH WDAF
WDAY WEAF WEBC WEEI WFBR
WFLA WGY WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WVIC 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
WJR WKRC WNAC

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

C — Harry Reser and Orchestra

WABC WCAO WCAU WDRC WEAN
WFBL WGR WHEC WHP WJAS
WJSV WLBZ WMAS WNAC WOKO
WORC WPG

R — The Hit Parade

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

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

C — Krueger Musical Toot

WABC WBIG WBT WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFEA WGST WJSV WKBW
WLBZ WMAS WMBG WMBR WNAC
WNBF WNOX WOKO WORC WQAM
WTOC

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

C — Chesterfield, See Wednesday

R — Chevrolet Program

KDYL KFI KFSD KFJR KGHL
KGR KSD KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KTBS KYW WAPI WAVE WBAP
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEI WFBR WFLA
WGY WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSMB WSOC
WTAG WTAM WTAR WVIC 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 KLZ
KMBC KMOX KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSB
KVR KWKH WABC WACO WADC

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

R — Shell Chateau; Wallace Beery

KDYL KFI KFSD KFJR KGHL
KGR KGW KHQ KOA KOMO KPO
KSD KSTP KTAR KYW WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBR WGY WIBA
WJAR WLW WMAQ WOW WRC
WTAG WTAM WVIC WTMJ WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTHS KVOO KWK WAPI WAVE
WBAL WBAP WBZ WBZA WFIL
WGAR WHAM WIRE WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WOOD 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 KVR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WFBL WFBM
WFEA WHAS WHEC WHK WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNAC 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
WFBR WGY WHIO WIRE WJAR
WMAQ WOW WRC WRVA WTAG
WTAM WVIC 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 KRLD
KSCJ KSL KTRH KTSB KVR
KWKH WABC WACO WADC WALA
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOD WDRC WFBL WFBM
WFEA WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — National Barn Dance

KDYL KFI KFSD KFJR KGHL
KGR 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 KVR KWKH WABC
WACO WADC WALA WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WIBW WIBX WICC

WJAS WJR WKBW WKRC WLAC
WLBZ WMAS 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
KOMAR KRLD KSCJ KSL KTRH
KTSB KVR 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 KLZ KMBC
KOMAR KRLD KSCJ KSL KTRH
KTSB KWKH WACO WADC WALA
WBIG WBNS WBRC WBT WCCO
WDBO WDNC WDOD WDRC WFBL
WFBM WFEA WGST WHAS WIBW
WIBX WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMAS
WMBD WMBR WNAC WNAK
WNOX WOKO WORC WQAM WREC
WSBT WSMK WSPD WTOC

R — Major Bowes' Capitol Family

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

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

B — Radio City Music Hall

CFRC CRCT KDKA KDYL KFI
KFJR 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 KRLD KSCJ KTRH
KTSB KVR WABC WACO WADC
WALA WBIG WBRC WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC
WEAN WESG WFBL WFBM WFEA
WGR WHAS WIBX WJAS WJSV
WKBW WLAC WLBZ WMBD WMBR
WNAC WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTOC WVL

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

C — Church of the Air

KFH KGKO KLRA KOMA KRLD
KSCJ KSL KTRH KTSB KVR
KWKH WABC WACO WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WESG WFBM WGR
WHAS WHEC WIBW WIBX WJAS
WJSV WKBW WKRC WLAC WLBZ
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 WCAU WCCO WGR WHAS
WJAS WJR WJSV WKRC WNAC
WREC

SUNDAY (Continued)

E-2:00 p.m., C-1:00, M-12:00, P-11:00
C — Tales of Tibet
 CFEB KFH KGKO KHJ KLRA
 KLZ KNPC KMOX KRNT KSCJ
 KSL KTRH K TSA KFOR KWKH
 WAAB WABC WADC WALA WFIQ
 WBRC WBT WCAO WCAU WCCO
 WDAE WDBJ WDNC WDOD
 WEAN WESG WFBL WFBM WFEA
 WHAS WHK WHP WJBW
 WIBX WICC WISN WJAS WJR
 WKBN WKBW WKRC WLAC WLBJ
 WMAS WMBD WMBG WMBR
 WMMN WNAC WNOX WOC WOKO
 WORC WQAM WREC WSBT WSJS
 WSMK WSPD WTCO

B — Music Key of RCA
 CFCF CRCT KDKA KDYL KFI
 KFYR KGW KHQ KOA KOIL
 KOMO KPO KPRC KSO KSTP KTBS
 KTHS KVOO KWK WAPI WAVE
 WBAL WBZ WBZA WCKY WDAY
 WEBC WENR WFAA WFIL WFLA
 WGAR WHAM WHIO WIBA WIOD
 WIRE WJAR WJAX WJDX WKY
 WMAL WMC WMT WOAI WPTF
 WREN WRVA WSB WSM WSMB
 WSOO WSYR WTAR WTMJ WUNC
 WXYZ

E-2:30 p.m., C-1:30, M-12:30, P-11:30
C — Jose Manzanares and Orchestra
 KFAB KMBC KMOX KOMA KRLL
 KRNT KTRH WABC WADC WBBM
 WBT WCAO WCAU WCCO WDAE
 WDRC 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
 WDAF WEEI WFBR WGY WHO
 WHIO WIRE WJAR WMAQ WOV
 WRC WSAI WTAG WTAM WTIC
 WWJ

E-3:00 p.m., C-2:00, M-1:00, P-12:00
C — Philharmonic Symphony
 CFEB CKAC KFH KGKO KLRA
 KLZ KOMA KRLL KSCJ KSL KTRH
 K TSA KFOR KWKH WABC WACO
 WADC WALA WBBM WBIG WBNS
 WBRC WBT WCAO WCCO WDAE
 WDBJ WDNC WDOD WDFC
 WEAN WESG WFBL WFBM WFEA
 WGST WHAS WHEC WHK WJBW
 WIBX WICC WISN WJAS WJR
 WKBN WKBW WKRC WLAC WLBJ
 WMAS WMBD WMBG WMBR
 WNNC WNOX WOC WOKO WORC
 WQAM WREC WSBT WSJS WSMK
 WSPD WTCO

B — Your English
 KDKA KDYL KFI KGW KHQ KOA
 KOIL KOMO KPO KPRC KSO KSTP
 KTHS KVOO KWK WAPI WAVE
 WBAL WBZ WBZA WDAY WEBC
 WENR WFAA WFIL WFLA WGAR
 WHAM WIOD WJAX WJZ WKY
 WLW WMAL WMC WMT WOAI
 WPTF WREN WRVA WSB WSM
 WSMB 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 WEBC
 WENR WFIL WGAR WHAM WHA
 WJZ WLW WMAL WMT WREN
 WSYR WXYZ

E-3:30 p.m., C-2:30, M-1:30, P-12:30
R — Sherwin-Williams Program
 KOYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSO KTBS KTHS
 KVOO KYW WAPI WAVE WREN
 WCAE WCKY WCSH WDAF WDAF
 WEEI WFAA WFBR WFLA WGY
 WHO WHIO WIOD WIRE WHK
 WJAR WJAX WJDX WKY WMAQ
 WWC WOAI WOW WPTF WTC
 WVA WSB WSM WSMB WSOO
 WTAG WTAM WTAR WTIC WWJ
 WUNC

E-1:00 p.m., C-3:00, M-2:00, P-1:00
Rev. Charles E. Coughlin
 KFEL KNY KSO KSTP KVOO
 KWK WATR WCAO WCAU WDRC
 WEAN WFBL WFEA WGAR WGR
 WHB WHO WICC WISN WJAS
 WJZ WJR WLBZ WLH WLW
 WMAS WNAC WNBH WOKO WOL
 WOR WORC WOW WRDO

E-5:00 p.m., C-4:00, M-3:00, P-2:00
C — Abe Lyman and Orchestra
 CFEB KFAB KMBC KMOX KRNT
 WAAB WABC WADC WBBM WCAO
 WCAU WCCO WDRC WEAN WFBL
 WFBM WHAS WHEC WHK WJAS
 WJR WJSV WKBW WKRC WOKO
 WSPD

R — Penthouse Serenade
 CFCF KDYL KFI KFYR KGW KHQ
 KOA KOMO KPO KPRC KSTP
 KTBS KTHS KVOO KYW WAPI
 WAVE WBAP WBEN WCAE WCSH
 WDAF WDAY WDAF WEBC WEEI
 WFBR WFLA WGY WHIO WIBA
 WIOD WIS WJAR WJAX WJDX
 WKY WMAQ WMC WOAI WOW
 WPTF WRC WRVA WSAI WSB WSM
 WSMB WSOO WTAG WTAM WTAR
 WTIC WWJ WUNC

B — Roses and Drums
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WENR WFIL WGAR WHAM
 WJZ WLW WMAL WMT WREN
 WSYR 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
 WCAU WDRC WEAN WFBL WFBM
 WGR WHAS WHEC WHK WIBX
 WICC WJR WJSV WMAS WOKO
 WORC WSPD WWL WWVA

C — Jose Manzanares and Orchestra
 KDB KERN KFAB KFBK KFPC
 KGB KHJ KLZ KMJ KOIN KOL
 KSL KVI KWG

R — Dream Drama
 KYW WBEN WCAE WCSH WDAF
 WDAF WEEI WFBR 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
 WSYR 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 WDAF WEEI WFBR 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
 CFEB CKAC KDB KERN KFAB
 KFBK KFPC KFRC KGB KHJ KLZ
 KMBC KMJ KMOX KOIN KOL
 KRLL KSL KVI KWG WAAB WABC
 WBBM WBNS WBT WCAO WCAU
 WCCO WDRC 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 KFBK KFH
 KFPC KFRC KGB KHJ KLZ KMJ
 KMOX KOIN KOL KRLL KRNT
 KSL KVI KWG WAAB WABC
 WBBM WBNS WBEF WBT WCAO
 WCAU WCCO WDBJ WDRC WEAN
 WFBL WHAS WHEC WHK WJAS
 WJR WJSV WKBW WKRC WLAC
 WWL WWVA

B — Compana'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 WDRC
 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 KFBK KFPC
 KFRC KGB KHJ KLZ KMBC KMJ
 KMOX KOIN KOL KRLL KRNT
 KSL KVI KWG WABC WBBM
 WCAO WCAU WCCO WDRC WFBL
 WGR WHAS WHK WJAS WJR WJSV
 WKRC WNAC WOKO

B — Jack Benny; Johnny Green
 CFCF CRCT KDKA KFYR KOIL
 KPRC KSO KSTP KTBS KVOO KWK
 WAVE WBAL WBZ WBZA WDAY
 WEBC WENR WFAA WFIL WFLA
 WGAR WHAM WIBA WIOD WIS
 WJAX WJDX WJZ WKY WLW
 WMAL WMC WMT WOAI WPTF
 WREN WRVA WSB WSM WSMB
 WSOO WSYR WTAR WTMJ WUNC
 WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Phil Baker; Hal Kemp
 KLRA KLZ KRLL KTRH K TSA
 KWKH WABC WACO WADC WALA
 WBIG WBNS WBRC WBT WCAO
 WCAU WCOA WDAE WDBJ WDNC
 WDNC WDOA WDRC WEAN WFBL
 WFBM WFEA WGR WGST WHAS
 WHEC WHK WHP WIBX WICC
 WJAS WJR WJSV WKBW WKRC
 WLAC WLBJ WMAS WMBR WNAC
 WNBW WNOX WOKO WORC WQAM
 WREC WSBT WSLA WSJS WSMK
 WSPD WTCO WWL WWVA

R — Fireside Recitals
 KSD KYW WBEN WCAE WCSH
 WDAF WDAF WEEI WFBR WGY
 WHIO WIRE 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 PKRC
 KSO KSTP KTAR KVOO KWK
 WBAL WBZ WBCA WKCY WDAY
 WBBB WFAA WFLA WGAR WHAM
 WIBA WIOD WJAX WJDX WJZ
 WKY WLS WMAL WMC WMT
 WOAI WPTF WREN WRVA WSB
 WSM WSMB WSYR WTMJ WWNC
 WXYZ

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

R — Sunset Dreams; Morin Sisters
 CFCF CRCT KSD KYW WBEN
 WCAE WCSH WDAF WFAE WFBW
 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 KOMA KRLL KRNT KTRH
 KTSA KTUL KWKH WABC WADC
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDOD WDRC WEAN
 WFBL WFBM WGR WGST WHAS
 WHEC WHK WICC WJAS WJR
 WJSV WKRC WLAC WNAC WOKO
 WOWO WREC WSPD WWL

R — Major Bowes' Amateur Hour
 CFCF CRCT KDYL KFI KFJR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KVOO KYW
 WAVE WBEN WBZ WBCA WCAE
 WCSH WDAF WDAY WFAE WFCB
 WFAA WFBW WFLA WGY WHO
 WIOD WIS WJAR WJAX WJDX
 WKY WLW WMAQ WMC WOAI
 WOW WPTF WRC WRVA WSB
 WSM WSMB WTAG WTAM WTAR
 WTIC WTMJ WWJ WWNC

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

C — Leslie Howard, Drama
 KDB KERN KFAB KFBK KFPY
 WFRK KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMA
 KRLL KRNT KSL KTRH KTUL
 KVI KWG WABC WADC WBBM
 WBNS WBRC WBT WCAO WCAU
 WCCO WDRC WEAN WFBL WFBM
 WGR WHAS WHEC 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
 QFRB CKAC KDB KERN KFAB
 KFBK KFH KFPY KFRC KGB
 KGKO KHJ KLRA KLZ KMBC KMJ
 KMOX KOH KOIN KOL KOMA
 KRLL KRNT KSCJ KSL KTRH
 KTSA KTUL KVI KVOR KWG

KWKH WABC WACO WADC WALA
 WBBM WBIG WBNS WBRC WBT
 WCAO WCAU WCCO WCOA WDAE
 WDBJ WDBO WDNC WDOD WDRC
 WEAN WFBL WFBM WFEA WGST
 WHAS WHEC WHK WHP WIBW
 WIBX WICC WISN WJAS WJR
 WJSV WKBH WKBW WKRC WKRC
 WLAC WLBZ WMAS WMBD WMBR
 WNAC WNAX WNOX WOC WOKO
 WORC WOWO WQAM WREC WSBT
 WSPA WSJS WSMK WSPD WTOG
 WWL

R — Manhattan Merry-Go-Round
 CFCF KDYL KFI KFJR KGW KHQ
 KOA KOMO KPO KSD KSTP KYW
 WBEN WCAE WCSH WDAF WDAY
 WFAE WFCB WFBW WGY WHO
 WHIO WIBA WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WTIC
 WTMJ WWJ

B — Charles Previn; Olga Albani
 KDKA KOIL KSO KWK WBAL WBZ
 WBAZ 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
 CFCF CRCT KDYL KFI KFJR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTBS KYW WAPI
 WAVE WBEN WCAE WCSH WDAF
 WDAY WFAE WFCB WEEI WFAA
 WFBW WFLA WGY WHO WHIO
 WIBA WIOD WIS WJAR WJAX
 WJDX WKY WMAQ WMC WOAI
 WOW WPTF WRC WRVA WSAI
 WSB WSM WSMB WSOC WTAG
 WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell

KDKA KOIL KSO KWK WBAL WBZ
 WBAZ 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 KRLL KSL KVI
 KWG WAAB WABC WADC WBBM
 WBNS WCAO WCAU WCCO WDRC
 WFBL WFBM WHAS WHK WIBW
 WJAS WJR WJSV WKBW WKRC
 WOKO WSPD WWL

R — General Motors Concert

CFCF CRCT KDYL KFI KFSD
 KFJR KGHL KGIR KGU KGW
 KHQ KOA KOMO KPO KPRC KSTP
 KTAR KTBS KTHS KYW WAPI
 WAVE WBAP WBEN WCAE WCSH
 WDAF WDAY WFAE WFCB WEEI
 WFBW 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

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 WDNC WDOD WDRC WEAN
 WFAE WGST WICC WJSV WLAC
 WLBZ 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 WIBW 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 KFBK KFPY KFRC
 KGB KHJ KMJ KOIN KOL KSL
 KVI KWG

R — The Melody Master

KYW WBEN WCAE WFAE WEEI
 WFBW WGY WJAR WMAQ WRC
 WTAG WTAM WTIC WWJ

R — Sunset Dreams; Morin Sisters

KDYL KFI KFSD KGW KHQ KOA
 KOMO KPO KPRC KTAR KTBS
 KTHS 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 KTHS 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 KFBK KFPY KFRC
 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

Armed 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 Thurs-
 day, 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 Manzanares, 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

IALOG

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
 Popeye, 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, R
 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
 Cies Service Concert, 8:00 p.m. Friday, R
 Contented Program, 10:00 p.m. Monday, R
 Corn Cob Pipe Club, 10:30 p.m. Saturday, R
 Evening in Paris, 8:30 p.m. Monday, B
 Fireside 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, 9:00 and 12:00 p.m. Wednesday, R
 Uncle Ezra, 7:15 p.m. Mon., Wed., and Fri., R
 Voice of Firestone, 8:30 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 Dues, 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 Langford, 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
 Lucy 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
 Pickens Sisters, 8:30 p.m. Monday, B
 Lily Pons, 9:00 p.m. Wednesday, C
 Carmella 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
 Fritzl 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
 Bouke 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. Kaltenborn, 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 Wile, 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. 198.56 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.
YDAS, Tandjongprik, N. E. I. 500 W. N. V. Neder-
landsch Indische-Radio Omroep Moats-
chappij, 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.	
1.520 megas.	197.25 m.	WJER, Broadcast pickup. WTMJ, The Milwaukee Journal, 333 W. State St., Milwaukee, Wisc.	
VIA, Adelaide, Australia. 175 w. Police.		WMEF, Broadcast pickup. 150 W. National Broadcasting Co.	
VKO, Sydney, Australia. 1.4 kW. Police.		....., Funtar Bay Camp, Alaska.	
1.530 megas.	195.96 m.	1.610 megas.	186.22 m.
YDB7, Soerabaja, N. E. I. 75 watts. Address, see YDA8 above. Daily, 0530-1100; 1745-1845; 2230-0130.		....., Chicago, Ill.	
1.540 megas.	194.69 m.	....., DeQuoin, Ill.	
CJD, Campbell River, B. C. 300 watts. Minister of Lands for B. C.		....., Effingham, Ill.	
VBY, Lunenburg, N. S. 100 watts. Lunenburg Sea Products, Ltd. (Station operated by Canadian Marconi)		....., Macomb, Ill.	
1.550 megas.	193.43 m.	....., Pontiac, Ill.	
YDA4, Soekaboemi, N. E. I. 25 watts. For address and schedule see YDA8, 1.510 megas.		....., Springfield, Ill.	
1.566 megas.	191.46 m.	....., Sterling, Ill.	
WIED Broadcast pickup. 50 watts. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. City			
WIEB Broadcast pickup. 50 watts. Address, see WIED above.		1.615 megas.	185.65 m.
1.570 megas.	190.96 m.	YDB4, Tjepeo, 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.	
WPEQ, Baton Rouge, La. Police.		1.620 megas.	185.07 m.
YDB6 Malang, N. E. I. 100 watts. For address and schedule see YDA8, 1.510 megas.		CFD, Kenora, Ont. 150 W. Ontario Dept. of Lands and Forests.	
1.574 megas.	190.48 m.	CFJ, Red Lake, Ont. Address CFD above.	
KGPY, Shreveport, La. Police.		CFL, Tabouret, P. Q. 100 W. Laurentian Forest Protective Association, Ltd., 126 St. Peter St., Quebec, P. Q.	
1.580 megas.	189.76 m.	CFM, Manicouagan River Estuary, P. Q. 100 W. Address CFL above.	
CJM, Borden, P. E. I. 100 watts. Works ships. Canadian National Railway.		CZB, Bellevue, P. Q. 100 W. Address CFL above.	
1.585 megas.	189.16 m.	CZY, Riviere du Chef, P. Q. 100 W. Address CFL above.	
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.		CZZ, St. Feleicien, P. Q. 100 W. Address CFL above.	
1.595 megas.	187.98 m.	1.622 megas.	184.85 m.
YDB5, Solo, N. E. I. 25 watts. For address and schedule see YDD3, 1.585 megas.		KGXU, Port Armstrong, Alaska. Buchan & Heinen.	
1.596 megas.	187.84 m.	KHP, Deep Cove, Alaska. (KIJV) Atlas Packing Co.	
CFC, Cub Lake, Sask. 100 watts. Dept. of Natural Resources, Govt. of the Province of Sask.		KIED, Broadcast pickup. (KFWB, Warner Bros., Hollywood, Calif.)	
CGQ, Lac la Ronge, Sask. 100 watts. Address, see CFC above.		KIFI, Broadcast pickup. (WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.)	
CGV, Emma Lake, Sask. 100 watts. Address CFC above.		KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood.)	
CZJ, Isle-a-la-Crosse, Sask. 100 watts. Address CFC		KIJJ, Port Conclusion, Alaska. Northwestern Herring Co.	
VYP, Prince Albert, Sask. Address, CFC above.		KIJK, Washington Bay, Alaska. Storfold & Gron-dahl.	
WPGG, Findlay, Ohio. 500 W. State of Ohio, High-way police.		KIJO, Port Herbert, Alaska. P. H. Packing Co.	
WPGQ, Columbus, Ohio. 400 W.		KIJS, Newport Waite, Alaska. Chatham Strait Fish Co.	
WPHC, Massillon, Ohio. 400 W. State of Ohio, Dept. of Highways.		KIJV, Deep Cove, Alaska. 50 watts. (KHP) Atlas Packing Co.	
WPHK, Wilmington, Ohio. State of Ohio.		KILU, Broadcast pickup. (KARK, N.S.L. Bldg., Little Rock, Ark.)	
WPHT, Cambridge, Ohio.		KIOG, Red Bluff, Alaska. 50 watts. Richmond Fisheries Co.	
1.606 megas.	186.69 m.	WIEH, Broadcast pickup. (WMCA, 1697 Broadway, N. Y. City)	
K3X7 Port Alexander, Alaska. Karl H. se n.		WKEM, Broadcast pickup. (WINS, Hearst Radio, 110 E. 58th St., N. Y. City)	
KIGA, Broadcast pickup. 7.5 watts. KSTP, St. Paul Hotel, St. Paul, Minn.		1.630 megas.	183.94 m.
KNED, Broadcast pickup. 50 watts. WBAP, Carter publications, Ft. Worth, Tex.		WEY, Boston, Mass. Marine Fire Station.	
WHER, Broadcast pickup. (KDKA) Grant Bldg., Pittsburgh.		WKDT, Detroit, Mich. Marine Fire Station.	
WIEO, Broadcast pickup. 50 watts. NBC, 30 Rockefeller Plaza, N. Y. City.		YDD2, Bandoeng, Java, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Tegallega O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.	
WIEW, Broadcast pickup. National Broadcasting Co.		1.634 megas.	183.48 m.
		WPHE, Marion County, Ind. 1 kW. Indiana State Police.	
		WPHS, Culver, Ind. 1 kW. Municipal police.	
		WPHU, Jasper, Ind. 1 kW. State of Ind., Dept. of Safety.	
		WQFE, Seymour, Ind. 1 kW. State of Ind., Dept. of Pub. Safety.	
		WQFW, Columbia City, Ind. 1 kW. State of Ind., Indianapolis, Ind. 100 watts. State police.	

SHORT WAVE STATIONS BY FREQUENCIES

1.640 megs. 182.82 m.
YDA3, Buitenszorg, 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.

1.642 megs. 182.59 m.
WRDS, E. Lansing, Mich. 1 kW. night; 5 kW. day. State police.

1.646 megs. 182.15 m.
KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Brdstg. Co.

WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. City.

WIEL, Broadcast pickup. Address WIEK above.
WLEB, Broadcast pickup. WOKO Inc., Hotel Ten Eyck, Albany, N. Y.

1.650 megs. 181.71 m.
VBV, Lunenburg, N. S. Works ships. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.

1.658 megs. 180.83 m.
KNHD, Redwood Falls, Minn. 400 w. State of M.
KSW, Berkeley, Calif. Municipal police.
WPGC, S. Schenectady, N. Y. 1 kW. night; 5 kW. day. State police.
 , Redwood Falls, Minn. 500 watts.

1.660 megs. 180.62 m.
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.

1.666 megs. 179.96 m.
WMP, Framingham, Mass. 1 kW. State police.
WPEL, W. Bridgewater, Mass. 1 kW. State police.
WPEV, Portable in Mass. 50 watts. State police.
WPEW, Northampton, Mass. 1 kW. State police.
 , Nashville, Tenn. Municipal police.

1.668 megs. 179.75 m.
CFC, Cub Lake, Sask. Dept. of Natural Resources-Govt. of the Province of Saskatchewan.
CGQ, Lac la Ronge, Sask. Address CFC above.
CGV, Emma Lake, Sask. Address CFC above.
CZJ, Isle-a-la-Crosse, Sask. Address CFC above.
VYP, Prince Albert, Sask. Address CFC above.

1.674 megs. 179.10 m.
KGHK, Palo Alto, Calif. 20 watts. Municipal police.
KGZT, Santa Cruz, Calif. 100 watts.
KIUK, Jefferson City, Mo. State police.
WPSP, Harrisburg, Pa. 1kW. State police.

1.682 megs. 178.25 m.
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 megs. 176.57 m.
KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.

1.706 megs. 175.74 m.
KGPC, St. Louis, Mo. City of S. L.
WKDU, Cincinnati, Ohio. City of C.
WPET, Lexington, Ky. City of L.

1.712 megs. 175.13 m.
CMPN, Havana Cuba Police.
CZG, Prince Rupert, B. C., 150 watts. B. C. Provincial police.

KGHY, Whittier, Calif. 30 watts. City of W.
KGJX, Pasadena, Calif. 400 watts. City of P.
KGJY, Beaumont, Tex. City of B.
KGPL, Los Angeles, Calif. City of L. A.
KGPK, Honolulu, T. H. 500 w. City and County of H.
KGPR, Fort Worth, Tex. City of F. W.

KGZB, Houston, Tex. City of H.
KGZL, Shreveport, La. City of S.
KGZQ, Waco, Texas. City of W.
KGZY, San Bernardino, Calif. 50 watts. City of S. B.
KNFJ, Pomona, Calif. 50 watts. City of P.
KNGE, Cleburne, Tex. 50 watts. City of C.
KNGL, Galveston, Tex. 50 watts. City of G.

KNHF, Denton, Texas. 50 w. City of D.
KVP, Dallas, Tex. 500 watts. City of D.
VYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept.
WPDB, Chicago, Ill. City of C.

WPDC, Chicago, Ill. City of C.
WPDD, Chicago, Ill. City of C.
WPDU, Pittsburgh, Pa. City of P.
WPED, Arlington, Mass. Town of A.
WPEH, Somerville, Mass. City of S.

WPEI, E. Providence, R. I. E. Prov. Police Dept.
WPEJ, Brookline, Mass. City of B.
WPPA, Newton, Mass. City of N.
WPFN, Fairhaven, Mass. Address: City of New Bedford Police.

WPGF, Providence, R. I.
WPGV, Boston, Mass. 500 watts. City of B.
WPHG, Medford, Mass. 50 watts. City of M.
WQFL, Oak Park, Ill. City of O. P.
 , Waukegan, Ill.

1.715 megs to 2.000 megs. 174.82 m. to 149.91 meters
Amateur Band. Phones in following countries work between 1.875 and 2.000 megs. (149.91 m. to 159.90 meters). Australia, Argentina, Canada, Ecuador, Estonia, Union of South Africa, United States of America.

1.840 megs. 162.95 m.
YDJ4, Cheribon, N. E. I. Batavia Radio Vereeniging.

1.850 megs. 162.06 m.
YDU5, Bandjermasin, Borneo, N. E. I. Owner: "Eureka."

1.860 megs. 161.19 m.
YDK6, Semarang, N. E. I. Radio Vereeniging Midden Java.

1.880 megs. 159.47 m.
YD09, Soerabaja, N. E. I. Owner: Holvast.

1.900 megs. 157.80 m.
YDG6, Batavia, N. E. I. Batavia Radio Vereeniging.

1.920 megs. 156.16 m.
YDH9, Buitenszorg, N.E.I. Batavia Radio Vereeniging.

1.940 megs. 154.55 m.
YDN2, Kediri, N.E.I. Owner: Goldberg.

1.960 megs. 152.97 m.
YDH8, Bandoeng, N.E.I. Owner: v. d. Heyden.

1.980 megs. 151.42 m.
YD08, Soerabaja, N.E.I. Owner: Gazaliehuis.

2.020 megs. 148.43 m.
KNED, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas).
WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.
WMEF, Broadcast pickup. 150 watts. Address WIEO above.

SHORT WAVE STATIONS BY FREQUENCIES

2.050 megs. 146.25 m. W9XAK, Manhattan, Kans. Television. Mon., 1945-2030. Wed. 2100-2200.	CKB, Pictou, N. S. 15 watts. Dept. of Public Works. CKO, Crane Island P. Q. 15 watts. Dept. of Public Works. CKP Montmagny, P. Q. 15 watts. Dept. of Public Works. CKU, Pictou Island N. S. 15 watts. Dept. of Public Works.
2.060 megs. 145.54 m. KIFO, Broadcast pickup. 200 watts. KIIQ, Broadcast pickup. (KMTR Radió Corp., Hollywood). WNER, Broadcast pickup. 100 watts. WAIU, Deshler-Wallick Hotel, Columbus, Ohio.	2.290 megs. 130.93 m. CFV, Namu, B. C. 100 watts. British Columbia Packers, Ltd. CFW, Bones Bay, B. C. 100 watts. Canadian Fishing Co., Ltd. CJE, Cepeecee, B. C. 10 watts. Canadian Packing Corp. CJX, Margaret Bay, B. C. Canadian Fishing Co., Ltd CZL, Humpback Bay, B. C. 100 watts. Chatham Sound Fishing & Packing Co., Ltd. VFJ, Homalke, B. C. 100 watts. Homalke Logging Co., Ltd.
2.070 megs. 144.84 m. YD07, Soerabaja, N.E.I. Owner: v. Wingen.	2.304 megs. 130.13 m. KBAI, Ketchikan, Alaska. Forestry. KMYA Juneau, Alaska. Forestry.
2.090 megs. 143.45 m. KNEC, Broadcast pickup. KVI, Puget Sound Brd-cstg. Co., Tacoma. YDG5, Batavia, Java, N.E.I. Batavia Radio Vereeniging.	2.342 megs. 128.02 m. CGZ Vancouver, B. C. 400 w. Corp. of the City of V.
2.102 megs. 142.64 m. KIGA, Broadcast pickup. KSTP, St. Paul Hotel, S. P. Minn. KIGW, Broadcast pickup. KNEB, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas) WHER, Broadcast pickup. (KDKA, Grant Bldg., Pittsburgh). WIEO, Broadcast pickup. 50 watts. Address WIEO, 2.020 megs. WIEW, Broadcast pickup. Address WIEO, 2.020 megs. WIEX, Broadcast pickup. Address WIEO, 2.020 megs. WJER, Broadcast pickup. WTMJ, The Journal Co., 333 W. State St., Milwaukee, Wisc. WMEF, Broadcast pickup. 150 watts. Address WIEO, 2.020 megs.	2.350 megs. 127.58 m. VBQ, Halifax, N. S. 25 watts. Works ships in harbor. YDE5, Djokjakarta, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java. 0530-1100; 1745-1845; 2230-0130.
2.110 megs. 142.09 m. W1XH, Boston, Mass. YD12, Soekaboemi, N. E. I., Batavia Radio Vereeniging.	2.382 megs. 125.87 m. KGHT Brownsville, Tex. 25 watts. City of B. KGVH, Corpus Christi Texas 50 watts. City of C. C. KNFE, Duluth, Minn. City of D. Police. KNBH, Green Bay, Wisc. 50 w. City of G. B. WPDN, Auburn, N. Y. Police WPEA Syracuse, N. Y. City of S. Police WPFM, Birmingham Ala. 400 watts. City of B. Police. WPGW, Mobile, Ala. 400 watts. City of M. Police., Hibbing, Minn.
2.150 megs. 139.45 m. KIED, Broadcast pickup. KFVB, Warner Bros., Hollywood, Calif. KIEO, Broadcast pickup. KFSD, U. S. Grant Hotel, San Diego, Calif. KIFI, Broadcast pickup. WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn. KIFT, Broadcast pickup. KJBS, 1380 Bush St., San Francisco, Calif. KIIQ, Broadcast pickup. KMTR Radio Corp., 915 N. Formosa Ave., Hollywood, Calif. KILU, Broadcast pickup. 5 watts. KARK, N.S.L. Bldg., Little Rock, Ark. WIEG, Broadcast pickup. WMCA, 1697 Broadway, N. Y. City. WKEM, Broadcast pickup. Hearst Radio, 110 E. 58th St., N. Y. C. WLEZ, Broadcast pickup. WJAG, Norfolk Daily News, Norfolk, Nebr.	2.385 megs. 125.71 m. 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.
2.190 megs. 136.90 m. KIIH, Broadcast pickup. KFAB Cornhusker Hotel, Lincoln, Nebr. KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Brd-cstg. Co., Tacoma. WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St. New York City. WIEL, Broadcast pickup. Address WIEK above.	2.390 megs. 125.45 m. CJW, Saint John, N. B. 15 watts. Dept. of Public Safety. CJZ, Verdun, P. Q. 20 watts. City of V. Police. WIED Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City. WIEX, Broadcast pickup. 50 watts. Address WIED above.
2.212 megs. 135.54 m. VYZ, High Falls, P. Q. 50 watts. James McLaren Co., Ltd.	2.396 megs. 125.14 m. VYW, Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.
2.284 megs. 131.22 m. CFT, Leamington, Ont. 14 watts. Dept. of Public Works. CFX, Pelee Island, Ont. 22 watts. Dept. of Public Works.	2.406 megs. 124.61 m. KGHZ, Little Rock, Ark. City of L. R. Police. KGPW, Salt Lake City, Utah. City of S. L. C. Police., Fort Smith, Ark.
	2.414 megs. 124.20 m. KACE, Olympia, Wash. 50 w. City of O. KGVH, Centralia, Wash. 15 watts. City of C. Police. 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.
KGZV, 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.
WPDA, Tulare, Calif. 150 watts.
WPDJ, Passaic, N. J.
WPDY, Detroit, Mich. City of D. Police.
WPDY, Atlanta, Ga. City of A. Police.
WPFH, Baltimore, Md. City of B. Police.
WPF1, 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, Grosse Pointe, Mich. Township of G. P.
 , Bakersfield, Calif.
 , Lodi, Calif.

2.415 meg. 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 meg. 124.09 m.

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

2.422 meg. 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.
WMJ, Buffalo, N. Y. City of B. Police, 757 E. Perry St.
WNFP, Niagara Falls, N. Y. 135 watts. City of N. F.
WPDR, 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 meg. 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.
WPDI, Columbus, Ohio. Franklin County Police.
WPDH, Dayton, Ohio. City of D. Police.
WPDS, St. Paul, Minn. City of S. P. Police.
WPEK, New Orleans, La. 250 watts. City of N. O. Police.
WPFH, 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 meg. 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.
WPDE, Louisville, Ky. City of L. Police.
WPDF, Flint, Mich. City of F. Police.
WPDH, Richmond, Ind. City of R. Police.
WPDJ, Lansing, Mich. City of L. Police.
WPED, Grand Rapids, Mich. 500 watts. City of G. R.
WPES, Saginaw, Mich. City of S. Police.
WPFH, Muskegon, Mich. City of M. Police.
WPFH, Reading, Pa. City of R. Police.
WPFH, Jacksonville, Fla. City of J. Police.
WPFH, Lakeland, Fla. 50 watts. City of L. Police.
WPFH, Palm Beach, Fla. 50 watts. Town of P. B.
WPFY, Yonkers, N. Y. 400 watts. City of Y. Police.
WPFZ, Miami, Fla. 100 watts. City of M. Police.
WPGI, Binghamton, N. Y. 400 watts. City of B.
WPGP, Muncie, Ind. 100 watts. City of M. Police.
WPHM, 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 meg. 122.38 m.

KACF, Chickasha, Okla. 50 w. City of C.
KGHN, Hutchinson, Kas. 50 w. City of H.
KGHP, Lawton, Okla. 50 w. City of L.
KGPH, Oklahoma City, Okla.
KGPO, Tulsa, Okla. City of Tulsa Police.
KGZP, 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.
WPKD, Milwaukee, Wisc. City of M. Police.
WPEE, Brooklyn, N. Y. City of New York Police.
WPEF, Bronx, N. Y. City of New York Police.
WPEG, New York, N. Y. City of N. Y. Police.
WPEP, Kenosha, Wisc. 100 watts. City and County of K. Police.
WPHF, Richmond, Va. 150 watts. City of R. Police.
WQFG, 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 meg. 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.
WPDG, Youngstown, Ohio. 250 watts. City of Y.
WPDO, Akron, Ohio. 250 watts. City of A. Police.
WPDV, Charlotte, N. C. City of C. Police.
WPFH, Asheville, N. C. 200 watts. Buncombe County Police.
WPGD, Rockford, Ill. City of R. Police.
WPHD, Steubenville, Ohio. 100 watts.
WQFZ, Ottawa, Ill. 250 w. La Salle County Police.
WRBH, Cleveland, Ohio. City of C.

2.466 meg. 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.
KGPK, Sioux City, Iowa. City of S. C. Police.
KGPM, San Jose, Calif.
KGPN, Davenport, Iowa. City of D. Police.
KGZG, 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. WPGB, 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, Charlton, 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. WPDJ, Philadelphia, Pa. City of P. Police. WPFQ, Knoxville, Tenn. City of K. Police. WPFQ, Swarthmore, Pa. Borough of S. Police. WPFJ, 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. Mulr; 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, Ellenburg, Wash. 10 watts. Address KNFS above. KNFY, Bear Camp, Wash. KNFZ, Halls Crossing Camp, Wash. 10 watts. KNGA, Satus Pass Camp, Wash. 10 watts. KNGB, 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. WPDJ, 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>KHF, 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>
2.566 meg. 116.84 m.	2.550 meg. 117.58 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. WYBF, Napoleon, Mo. 500 watts. United States Army.</p>
2.604 meg. 115.14 m.	2.590 meg. 115.76 m.
<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. WYBF, Napoleon, Mo. 500 watts. United States Army.</p>	<p>KAEB, Hydaburg, 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. KIUQ, Igloo, Alaska. 50 w. H. H. Burkher. , Deering, Alaska.</p>
2.616 meg. 114.61 m.	2.604 meg. 115.14 m.

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.

YDK5, 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.
KIYY, 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 II. Capt. Paul F. Johnson.
WDDQ, "Zapora" Wills 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. Poncin.
WLFQ, Yacht "Heljim". 40 w. J. V. Griffith, Tacoma, Wash.
WLFS, "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

<p>KIJR, Port San Juan, Alaska. Works KIJP, KIJU. Address KIJP.</p> <p>KIJU, Todd, Alaska. Works KIJR, KIJP. Peril Straits Packing Co.</p> <p>WNFJ, M. S. Sunset, Alaska Southern Packing Co. Kenai, Alaska.</p>	<p>3.155 megs. 95.03 m.</p> <p>3.170 megs. 94.58 m.</p> <p>3.190 megs. 93.99 m.</p> <p>3.200 megs. 93.69 m.</p> <p>3.210 megs. 93.40 m.</p> <p>3.230 megs. 92.82 m.</p> <p>3.250 megs. 92.25 m.</p> <p>3.265 megs. 91.83 m.</p> <p>3.268 megs. 91.74 m.</p> <p>3.270 megs. 91.69 m.</p> <p>3.290 megs. 91.13 m.</p> <p>3.300 megs. 90.85 m.</p> <p>3.310 megs. 90.58 m.</p> <p>3.320 megs. 90.31 m.</p> <p>3.330 megs. 90.04 m.</p> <p>3.340 megs. 89.77 m.</p> <p>3.345 megs. 89.63 m.</p>	<p>KBCJ, San Francisco, Calif. Weather Bureau.</p> <p>YD04, Soerabaja, N. E. I. Owner: Jarico.</p> <p>KIJJ, Tanana, Alaska. Northern Commercial Co.</p> <p>KIJK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co.</p> <p>KIIL, Fort Yukon, Alaska. 50 watts. See KIJK above.</p> <p>KIIM, Hot Springs, Alaska. 50 watts. See KIJK above.</p> <p>KIIN, Eagle, Alaska. 50 watts. See KIIL above.</p> <p>KIIO, McGrath, Alaska. 50 watts. See KIIL above.</p> <p>KIJB, Cape Polo, Alaska. 50 watts. A. R. Brueger.</p> <p>KILY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.</p> <p>KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.</p> <p>CFQ, Edmonton, Alta. Edmonton Journal, Ltd.</p> <p>CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.</p> <p>CKS, Portable. 100 watts. Calgary Herald; see above.</p> <p>YDA, Tandjongpriok, N. E. I. 10 kW. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p> <p>CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.</p> <p>WKDL, Miami, Fla. (airway).</p> <p>WMDU, San Juan, Puerto Rico. (airway).</p> <p>KAED, Angoon, Alaska. 40 w. Territory of A.</p> <p>KIAP, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Co.</p> <p>KIAW, Port Althorp, Alaska. Address KIAP above.</p> <p>KIAY, Ketchikan, Alaska. Address KIAP above.</p> <p>KIBA, Kake, Alaska. Address KIAP above.</p> <p>KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.</p> <p>KIIP, Willow Creek Mines, Luckyshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle.</p> <p>KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.</p> <p>KIUZ, Hoonah, Alaska. 40 w. Territory of A.</p>
<p>2.994 megs. 100.14 m.</p> <p>KAEF, Jack Wade, Alaska. 40 w. Territory of A.</p> <p>KDY, Pillar Bay, Alaska. Fidalgo Island Packing Co.</p> <p>KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Growden.</p> <p>KIJJ, Tanana, Alaska. Northern Commercial Co.</p> <p>KIJK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.</p> <p>KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP Fairbanks, and WXE Anchorage. Northern Commercial Co.</p> <p>KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.</p> <p>KIIN, Eagle, Alaska. 50 watts. See KIIL above.</p> <p>KIIO, McGrath, Alaska. 50 watts. See KIIL above.</p> <p>KIJB, Cape Polo, Alaska. 50 watts. A. R. Brueger.</p> <p>KILY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.</p> <p>KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.</p>	<p>3.049 megs. 98.62 m.</p> <p>3.070 megs. 97.66 m.</p> <p>3.093 megs. 96.94 m.</p> <p>3.125 megs. 95.94 m.</p> <p>3.130 megs. 95.79 m.</p> <p>3.150 megs. 95.18 m.</p> <p>3.152 megs. 95.12 m.</p>	<p>SHIPS work between 3.125 and 3.147 megs. (95.27 to 95.94 meters). 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.</p> <p>YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.</p> <p>YDG3, Batavia, Java, N. E. I. Owner: Luyks.</p> <p>CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY.</p> <p>CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.</p>
<p>YDL5, Djokjakarta, N. E. I. Owner: Helant Muller.</p> <p>YDQ4, Malang, N. E. I. Owner: Radinova.</p> <p>YDH5, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.</p> <p>KAEB, Hydraburg, Alaska. 40 w. Territory of A.</p> <p>KIBZ, Waterfall, Alaska. Nakat Packing Corp.</p> <p>KICE, Nakeen, Alaska. Nakat Packing Corp.</p> <p>KICG, Union Bay, Alaska. Nakat Packing Corp.</p> <p>KIDE, Hidden Inlet, Alaska. Nakat Packing Corp.</p> <p>KIKY, Saldovia, Alaska. 40 watts. Adam W. Lipke.</p> <p>CGP, Prince Rupert, B. C. North-West Telephone Co., Cor. 2nd Ave. and Wylie St., Vancouver, B. C.</p> <p>YDA7, Pekalongan, N. E. I. 15 watts.</p> <p>YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.</p> <p>YDK4, Magelang, N. E. I. Owner: v. Wingen.</p> <p>YD03, Soerabaja, N. E. I. Owner: Radio Electric.</p> <p>CZV, Waterloo Mine, B. C. Waterloo Gold Mines, Ltd.</p> <p>KBAT, Olympia, Wash. Forestry.</p> <p>KBAU, Quilcens, Wash. Forestry.</p> <p>KBCQ, Boise, Idaho. Forestry.</p> <p>YDG7, Batavia, Java, N. E. I. Owner: Planohandel Kok.</p> <p>YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.</p> <p>YDM2, Tjopoe, N. E. I. Radio Vereeniging.</p> <p>YDV2, Bandjermasin, Borneo, N. E. I. Owner: Eureka.</p> <p>CGD, Drummondville, P. Q. Private station of Canadian Marconi Co., P. O. Box 1690, Montreal, P. Q.</p> <p>CGM, Montreal, P. Q. Private CMC station. Address CGD above.</p> <p>SP33, Weaverville, Calif. Forestry.</p>		

SHORT WAVE STATIONS BY FREQUENCIES

3.350 megs. 89.50 m.
YDQ3, Malang, N. E. I., operated by Malangsche Radio Vereeniging. Owner: W. Lammerce, c/o Radio-Technisch Bureau Lammerce, Bromostraat 21a, Malang.

3.385 megs. 88.57 m.
KBAA, Portland, Ore. Forestry.
KBCA, Santa Barbara, Calif.
KBCB, Santa Barbara, Calif.
KBCG, Yreka, Calif.
KBCH, Oakland, Calif.

3.387 megs. 88.50 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.

3.390 megs. 88.44 m.
YDQ2, Djember, N. E. I. Owner: v. Wingen.

3.410 megs. 87.92 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.

3.423 megs. 87.59 m.
WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., N. Y. C.

3.430 megs. 87.41 m.
YDO2, Soerabaja, N. E. I. Owner: Soekaradio.

3.445 megs. 87.03 m.
KBAM, Grants Pass, Ore. Forestry.
KBCD, North Fork, Calif.
KBCE, North Fork, Calif.
KBCF, North Fork, Calif.

3.450 megs. 86.90 m.
YDL3, Solo, N. E. I.

3.452 megs. 86.85 m.
CJU, Winnipeg, Man. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.

3.470 megs. 86.40 m.
YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.

3.490 megs. 85.91 m.
YDH3, Bandoeng, Java, N. E. I. Owner: de Kort.

3.493 megs. 85.83 m.
W7XK, Seattle, Wash. 80 watts. Northern Radio Co., Kulien Bldg.

AMATEURS WORK BETWEEN 3.500 and 4.000 megs.
 (74.96 to 85.56 meters). Phones between 3.900 and 4.000 megs.

3.750 megs. 79.95 m.
CT1CT, Lisbon, Portugal. 500 watts. "Radio Eddy-stone." Sr. Oscar G. Lomelino, Rua Gomez Friere 79, 2-D, Lisbon. Daily, 0900-1100.

3.800 megs. 78.90 m.
ZP11, Asuncion, Paraguay.

4.000 megs. 74.96 m.
CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgrada. Wed.-Sat., 1700-1900.

4.098 megs. 73.16 m.
WND, Hialeah, Fla. 400 watts. Phones ZFS Nassau.

4.122 megs. 72.74 m.
AIRWAY GROUND STATIONS, as follows: WEEA, Atlanta; WEEB, Baltimore; WEEC, Charleston; WEEF, Spartanburg, S. C. WEEH, McRae, Ga.; WEEJ, Jacksonville; WEEW, Miami; WEEN, Linden, N. J.; WEEO, Orlando; WEER, Richmond; WNEZ, Camden; WOER, Raleigh; WOES, Savannah; WOET, Charlotte; WOEV, Louisville.

4.124 megs. 72.70 m.
KIFM, Fairbanks, Alaska. Airway.

4.178 megs. 71.76 m.
WOO, Ocean Gate, N. J. 20 kW. Phones ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.
WOY, Lawrenceville, N. J. 20 kW. Address WOO , Tavernier, Fla.

4.200 megs. 71.39 m.
YT2, Fort Lewis, Wash. Army Airway.

4.243 megs. 70.66 m.
 , Tavernier, Fla.

4.253 megs. 70.50 m.
WKF, Lawrenceville, N. J. A. T. & T. Address WOO above.
WOG, Ocean Gate, N. J.

SHORT WAVE STATIONS BY FREQUENCIES

4.273 megs. 70.16 m. RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far East Radio Station." Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.	GLRZ, S. S. Aquitania. Address GBZW.
4.276 megs. 70.11 m. 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.	4.430 megs. 67.68 m. GBC, Rugby, England. Works ships. Address GDB, 4.320 megs. GDLJ, S. S. Homeric. VQJM, S. S. Monarch of Bermuda. VQJP, S. S. Queen of Bermuda.
4.280 megs. 70.05 m. IBEJ, S. S. Conte Rosso. Works IAC, WOO. IBGI, S. S. Conte Verde. Works IAC, WOO. IBLI, S. S. Conte di Savoia. Works IAC, WOO. ICEJ, S. S. Rex. Works IAC, WOO.	4.465 megs. 67.14 m. CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
4.295 megs. 69.81 m. WTDV, St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie. WTDW, St. Croix, Virgin Islands. 250 watts. WTDX, St. John, Virgin Islands. 250 watts.	4.470 megs. 67.07 m. YDB, Soerabaja, N. E. I. 1 kW.
4.320 megs. 69.40 m. DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany. GDB (G6RX), Rugby, England. 15 KW. Engineer-in-Chief, GPO (Radio Section), Armour House, St. Martins Le Grand, London EC1, England.	4.490 megs. 66.78 m. VDC, Calgary, Alta. Two Bros. Valley Gold Mines, Ltd. VDV, Two Brothers Lake, B. C. Address VDC, Calgary.
4.348 megs. 68.92 m. CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	4.505 megs. 66.55 m. CGO, Ocean Falls, B. C. North-West Telephone Co., Corner 2nd Ave. and Wylie St., Vancouver, B. C. CZO, Prince George, B. C. Address CGO above. CZP, Claydon Bay, B. C. Address CGO above.
4.355 megs. 68.84 m. IAC, Coltano, Italy. 56 kW. Phones ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.	4.512 megs. 66.44 m. ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.
4.390 megs. 68.30 m. FNSK, S. S. Normandie. Works Paris. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.	4.535 megs. 66.11 m. WDG, Rocky Point, N. Y. 40 kW. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.
4.400 megs. 68.14 m. RRZ, Moscow, U. S. S. R. 1kW.	4.550 megs. 65.89 m. WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.
4.410 megs. 67.99 m. FNSK, S. S. Normandie. Works WOO. Address 4390 megs.	4.580 megs. 65.46 m. DJG, Zeesen, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.
4.413 megs. 67.94 m. All these ships work with WOO. The German ships also work DAF; British ships with GBC: DDBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City. DDCP, S. S. Cap Polonio. DDFF, S. S. Reliance. DDFT, S. S. Oceana. DHAO, S. S. Albert Ballin. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. C. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland. DHJZ, S. S. Hamburg. Address DHAO above. DHRL, S. S. New York. Address DHAO above. DOAH, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y. DOAI, S. S. Europa. Address DOAH, above. FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City. FTNQ, S. S. Ile de France. Address FNSM above. GFVW, S. S. Majestic. Address GBZW above. GMBJ, S. S. Empress of Britain. GMJQ, S. S. Belgenland. Address GBZW above.	4.600 megs. 65.18 m. HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.
4.415 megs. 67.91 m. GBZW, S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.	4.610 megs. 65.05 m. KMYA, Juneau, Alaska. Forestry.
	4.718 megs. 63.66 m. YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.
	4.753 megs. 63.08 m. WOO Ocean Gate, N. J. Phones ships. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C. WOY, Lawrenceville, N. J. 20 kW. Address WOO above.
	4.755 megs. 63.05 m. CFU, Rossland, B. C. Consolidated Mining & Smelting Co.
	4.785 megs. 62.66 m. CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.
	4.810 megs. 62.33 m. YDE2, Solo, N. E. I. 100 watts. YDL2, Solo, N. E. I. Owner: Solosche Radio Vereeniging.
	4.820 megs. 62.20 m. GDW, Rugby, England. Phones N. Y. Engineer-in-Chief, GPO, (Radio Section), Armour House St. Martins Le Grand, London EC1.

SHORT WAVE STATIONS BY FREQUENCIES

4.840 megs.	61.95 m.	5.435 megs.	55.16 m.
CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.		LSH, Buenos Aires, Argentina. Compania Radiotelegrafica Arg., San Martin 301-329.	
4.865 megs.	61.63 m.	5.440 megs.	55.11 m.
CGT, Campbell River, B. C. North-West Telephone Co., Corner 2nd and Wylie St., Vancouver, B. C.		RSN, Sverdlovsk, USSR. 10 kW.	
4.875 megs.	61.50 m.	5.490 megs.	54.61 m.
RKF, Moscow, USSR. 20 kW.		ROI, Sverdlovsk, USSR. 15 kW.	
4.975 megs.	60.27 m.	5.505 megs.	54.46 m.
GBC, Rugby, England. 5kW. Phones ships Address GDW, 4.820 megs.		WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	
4.988 megs.	60.11 m.	5.520 megs.	54.32 m.
WWAD, S. S. Violet. Works Lighthouses on Great Lakes.		T15HH, San Ramon, Costa Rica. 200 w. "La Voz de San Ramon." Address Sres. Herrera. Daily 1530-1700; 2000-2130.	
5.000 megs.	59.96 m.	5.540 megs.	54.11 m.
WWV, Beltsville, Md. 1 kW. Standard frequency service, Wed., 1430-1530. Nat'l Bureau of Standards, Washington, D. C.		VXU, Regina, Sask. Dept. of Natural Resources. Govt. of the Province of Sask.	
5.015 megs.	59.78 m.	5.550 megs.	54.02 m.
IS3, Bolling Field, Va. United States Army airport.		I2RO, Rome, Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.	
5.025 megs.	59.67 m.	5.660 megs.	52.97 m.
ZFA, St. George (Hamilton) Bermuda. 1.5 kW. Phones WOB nights.		CFD, Kenora, Ont. 150 watts. Ont. Dept. of Lands and Forests.	
5.040 megs.	59.59 m.	CFJ, Red Lake, Ont. Address CFD above.	
RIR, Tiflis, USSR. 4 kW.		CFN, Slate Creek, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.	
5.078 megs.	59.06 m.	CFU, Rossland, B. C. Address CFN above.	
WCN, Lawrenceville, N. J. Works GDW nites. AT&T, 32 Sixth Ave., N. Y. C. Big Pine Key, Fla.		5.710 megs.	52.51 m.
5.138 megs.	58.35 m.	JDZ, Darien. Works JVU nazaki.	
KI10, McGrath, Alaska. Northern Commercial Co.		5.720 megs.	52.42 m.
5.140 megs.	58.33 m.	YV1ORSC, San Cristobal, Venezuela. "La Voz de Tachira." Jesus M. Diaz Gonzalez.	
PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nillmy Bldg., Bandoeng. 0040-0240; 0640-0940.		5.725 megs.	52.37 m.
5.198 megs.	57.68 m.	I2RO, Rome, Italy. Address EIAR, 5.550 megs.	
..... Big Pine Key, Fla.		5.730 megs.	52.32 m.
5.260 megs.	57.00 m.	JVV, Nazaki, Japan. Works JIA, JIB, JIC at Taiwan. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	
YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.		5.765 megs.	62.00 m.
5.265 megs.	56.96 m.	KZGF, Manila, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	
WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.		5.780 megs.	51.87 m.
5.300 megs.	57.57 m.	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.	
ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS, 4.512 megs.		5.790 megs.	51.78 m.
5.375 megs.	55.78 m.	JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Address JVU, 5730 megs.	
RSB, Stalinsk, USSR. 2 kW.		5.795 megs.	51.74 m.
5.400 megs.	55.52 m.	KZGH, Iollo, P. I. (Iollo Island). Inter-Island phone. Philippine Long Distance Tele. Co.	
HAT, Szekesfehervar, Hungary. 6 kW. "Justice for Hungary!" Announcements French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserleti Allomas, IX Kerulet Gyall Ut 22, Budapest, Hungary.		5.800 megs.	51.69 m.
HJA7, Cucuta, Colombia. Colombian Petroleum Corporation.		YV2RC, Caracas, Venezuela. 1kW. "Broadcasting Caracas." "La Habla a la Nacion." Int sig: 4 chimes. sign off: "March 18C" address: Apartado 2009.	
5.405 megs.	55.47 m.	5.810 megs.	51.60 m.
CGP, Prince Rupert, B. C. Address CGT, 4.865 megs.		YV7RMO, Maracaibo, Venez. "Radiodifusora Maracaibo."	
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.			
5.415 megs.	55.37 m.		
IAF, Flumicino, Italy. 5 kW			

SHORT WAVE STATIONS BY FREQUENCIES

5.815 mogs.	51.56 m.	HJ2ABD, Bucaramanga, Colombia. 100 watts. Sr Hector McCormick.
HCK, Quito, Ecuador.		XEBI, Mexico City, D. F. Apartado 2874.
5.820 mogs.	51.52 m.	5.995 mogs. 50.01 m.
CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.		RPT, Tashkent, USSR. 1 kW.
TIGPH, San Jose, Costa Rica. "Alma Tica." 1900-2200.		WVD, Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.
5.825 mogs.	51.47 m.	5.996 mogs. 50.00 m.
HJA2, Bogota, Colombia.		..... "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.
KZGG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.		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).
WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.		6.000 mogs. 49.97 m.
5.830 mogs.	51.43 m.	TGWA, Guatemala City, Guat. 300 w. "Radio Nacional" Relays TGW. address: Ministerio de Fomento.
CWD, Montevideo, (Cerrito), Uruguay. 1.5 kW.		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.
JZC, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Address: Manchukuo Telephone & Telegraph Co., Ltd.		XGOX, Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.
5.845 mogs.	51.30 m.	6.005 mogs. 49.93 m.
KRO, Kahuku, Oahu, T. H. (Off the air?)		VE9DN, Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.
....., Kahuku, T. H. To work GMBJ.		VE9DR, Montreal, P. Q. Address VE9DN above.
5.850 mogs.	51.25 m.	6.006 mogs. 49.92 m.
WOB, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.		HJ1ABJ, Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.
YV5RMO, Maracalbo, Venezuela. "Ecos del Caribe." (member Gadena 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.		6.010 mogs. 49.89 m.
5.865 mogs.	51.12 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).
HI1J, San Pedro de Macoris, D. R. Daily 1700-2030.		HJ1ABC, Quibdo, Colombia.
5.875 mogs.	51.03 m.	6.012 mogs. 49.87 m.
HRN, Tegucigalpa, Honduras. 400 w. "La Voz de Honduras." Daily 2000-2200.		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.
YV8RB, Barquisimeto, Venezuela. "La Voz de Lara."		6.020 mogs. 49.80 m.
5.890 mogs.	50.90 m.	DJC, 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." Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
JIC, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.		XEUW, Veracruz, Mexico. 50 w. "El eco de Sotavento desde Veracruz." Radiodifusora Comercial XEU, Independencia 98.
5.900 mogs.	50.82 m.	6.030 mogs. 49.72 m.
HJ4ABE, Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300. Owner: Jose M. Acevedo F.		HP5B, Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910, Daily, 1900-2200.
5.940 mogs.	50.47 m.	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.
TG2X, Guatemala City, Guat. 200 w. "Policia Nacional."		
5.970 mogs.	50.22 m.	
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-Vatican, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: Sundays and holidays, 0500-0530. Daily, 1400-1415.		
5.975 mogs.	50.18 m.	
HJ2ABC, Cucuta, Colombia. 250 watts. "La Voz de Cucuta." Interval sig: chimes C-D-E-F-C. Address, J. Alejandro Sanchez. Week days, 1100-1200; 1830-2100.		
5.980 mogs.	50.14 m.	
HIX, Santo Domingo, D. R. Mr. J. R. Saladin, Director HIX. Tues., Fri., 2000-2200.		

SHORT WAVE STATIONS BY FREQUENCIES

- 6.040 megs. 49.64 m
PRA8, Pernambuco, Brazil. 3 kW. "A Vox do Norte." Radio Club Pernambuco, Ave. Cruz Cabaga 394.
- 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.
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- 6.042 megs. 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 megs. 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.
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- 6.060 megs. 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, Helbergsgade 7, Copenhagen. Daily 1300-1830.
- 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.
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- 6.065 megs. 49.43 m.
HH2F, Port au Prince, Haiti.
- 6.070 megs. 49.39 m.
HH2S, Port au Prince, Haiti.
HP5H, Colob, Panama.
IRA, Rome, Italy. Address EIAR, 5,550 megs.
VE9CS, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.
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- 6.072 megs. 49.37 m.
CQN, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.
OER2, Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.
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- 6.080 megs. 49.31 m.
CP5, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.
DJM, Zeesen, Germany. Address, DJC, 6.020 megs.
HJN, Bogota, Colombia. Sr. Luis Ramirez Arana, Jefe del Servicio de Inalambricos, Ministerio de Correos y Telégrafos.
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- 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.
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- 6.085 megs. 49.27 m.
12RO, Rome, Italy. Address EIAR, 5,550 megs.
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- 6.090 megs. 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.
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- 6.100 megs. 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 Brdcstg. Co., Box 4559, Johannesburg.
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- 6.110 megs. 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 megs. Daily, 2200-2300.
HJ4ABB, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.
VE9CG, Calgary, Alta. Calgary Herald, Ltd.
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- 6.112 megs. 49.05 m.
VUC, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.
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- 6.115 megs. 49.03 m.
HJ1ABE, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratories Fuentes L., Apartado 31.
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- 6.120 megs. 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, Bandeeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Tegallegha 0.23, Bandeeng. 0530-1100; 1745-1845; 2230-0130.
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- 6.125 megs. 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.
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- 6.130 megs. 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 megs.	46.94 m.
W09, Mitchell Field, Mineola, Long Island. Army airport.	6.400 megs.	46.85 m.
WTR, Albrook Field, Canal Zone. Army airport.	6.410 megs.	46.77 m.
YV9RC, Caracas, Venez. "Ondas Populares."	6.425 megs.	46.66 m.
6.132 megs. 48.89 m.	6.440 megs.	46.56 m.
CT1GO, Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.	6.445 megs.	46.52 m.
6.135 megs. 48.87 m.	6.447 megs.	46.50 m.
RKK, Moscow, USSR. 20 kW.	6.450 megs.	46.48 m.
6.140 megs. 48.83 m.	6.490 megs.	46.20 m.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.	6.500 megs.	46.13 m.
6.145 megs. 48.79 m.	6.520 megs.	45.98 m.
....., Villejust, France. 120 kW. (Under constr.)	6.550 megs.	45.76 m.
6.150 megs. 48.75 m.	6.590 megs.	45.50 m.
CJRO, Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.	6.610 megs.	45.36 m.
CO9GC, Santiago de Cuba. Relays CMKB. "Ask for Bacardi." Laboratorio Radio-electrico, Sres. Grau y Caminero, Apartado 137. Daily, 0930-1000; 1245-1330; 1530-1615.	6.615 megs.	45.32 m.
CSL, Lisbon, Portugal.	6.615 megs.	45.32 m.
HJ5ABC, Cali, Colombia.	6.615 megs.	45.32 m.
YV3RC, Caracas, Venezuela. "Radiodifusora Venezolana YV3RC en Caracas." Bajos Pasaje Ramella. 1700-2200.	6.615 megs.	45.32 m.
6.170 megs. 48.60 m.	6.615 megs.	45.32 m.
HJ2ABA, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana. Sr. Pompello Sanchez.	6.615 megs.	45.32 m.
6.185 megs. 48.48 m.	6.615 megs.	45.32 m.
HI1A, Santiago de los Caballeros, D. R. "La Voz del Yaque."	6.615 megs.	45.32 m.
6.200 megs. 48.36 m.	6.615 megs.	45.32 m.
HJ3ABF, Bogota, Colombia. 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.	6.615 megs.	45.32 m.
6.230 megs. 48.13 m.	6.615 megs.	45.32 m.
OAX4G, Lima, Peru. Relays OAX4B. R. Grellaud y Cia.	6.615 megs.	45.32 m.
6.285 megs. 47.70 m.	6.615 megs.	45.32 m.
CZA Drummondville, P. Q. Works ships.	6.615 megs.	45.32 m.
6.300 megs. 47.59 m.	6.615 megs.	45.32 m.
HJ1ABH, Cienaga, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.	6.615 megs.	45.32 m.
6.315 megs. 47.48 m.	6.615 megs.	45.32 m.
HIZ, Sante Domingo, D. R. 100 watts. Operator, Frank Hatten, Calle Duarte No. 68. Sat., 2300-0100; daily exc. Sun., 1700-1800.	6.615 megs.	45.32 m.
6.330 megs. 47.36 m.	6.615 megs.	45.32 m.
JZG, Nazaki, Japan. 10 kW. Works ships. Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	6.615 megs.	45.32 m.
6.375 megs. 47.03 m.	6.615 megs.	45.32 m.
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	6.615 megs.	45.32 m.
6.425 megs. 46.66 m.	6.615 megs.	45.32 m.
CZG, Prince Rupert, B. C. B. C. Provincial Police.	6.615 megs.	45.32 m.
VE9AS, Fredericton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick.	6.615 megs.	45.32 m.
VK1, Selfridge Field, Mt. Clemens, Mich. Army airport.	6.615 megs.	45.32 m.
W3XL, Bound Brook, N. J. 18 kW. NBC Control station and cue station for nearly all special "stunt" broadcasts. Address NBC, 30 Rockefeller Plaza, N. Y. City.	6.615 megs.	45.32 m.
W9XF, Chicago (Downers Grove), Ill. Address W9XF 6.100 megs.	6.615 megs.	45.32 m.
W9XQ, same as W9XF above.	6.615 megs.	45.32 m.
W9XBS, same as W9XF above.	6.615 megs.	45.32 m.
6.440 megs. 46.56 m.	6.615 megs.	45.32 m.
RTA, Novosibirsk, USSR. 15 kW.	6.615 megs.	45.32 m.
6.445 megs. 46.52 m.	6.615 megs.	45.32 m.
PD1, Maxwell Field, Montgomery, Ala. Army airport.	6.615 megs.	45.32 m.
PE2, Wright Field, Dayton, Ohio. Army airport.	6.615 megs.	45.32 m.
6.447 megs. 46.50 m.	6.615 megs.	45.32 m.
HJ1ABB, Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJ1ABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.	6.615 megs.	45.32 m.
6.450 megs. 46.48 m.	6.615 megs.	45.32 m.
HJ4ABC, Ibague, Colombia. "Ecos de Combeima." Mario M. Barrios, Aptdo. 39.	6.615 megs.	45.32 m.
6.490 megs. 46.20 m.	6.615 megs.	45.32 m.
HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.	6.615 megs.	45.32 m.
6.500 megs. 46.13 m.	6.615 megs.	45.32 m.
HI1L, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 62 3	6.615 megs.	45.32 m.
HI4D, Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.	6.615 megs.	45.32 m.
6.520 megs. 45.98 m.	6.615 megs.	45.32 m.
YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.	6.615 megs.	45.32 m.
6.550 megs. 45.76 m.	6.615 megs.	45.32 m.
TIRCC, San Jose, Costa Rica. 500 watts. "Radioemisora Catolica Costaricense." Box 1064.	6.615 megs.	45.32 m.
6.590 megs. 45.50 m.	6.615 megs.	45.32 m.
ZEA, Salisbury, Southern Rhodesia. 500 watts. Works ZEB.	6.615 megs.	45.32 m.
ZEB, Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.	6.615 megs.	45.32 m.
6.610 megs. 45.36 m.	6.615 megs.	45.32 m.
CWE, Cerrito (Montevideo) Uruguay. 1.5 kW.	6.615 megs.	45.32 m.
6.615 megs. 45.32 m.	6.615 megs.	45.32 m.
KIKL, Los Angeles, Calif.	6.615 megs.	45.32 m.
WMEP, Suffield, Ohio. 400 watts. Airways.	6.615 megs.	45.32 m.
WMEQ, Wheeling, Ill. Airways.	6.615 megs.	45.32 m.
WMEU, St. Petersburg, Fla. 400 watts. Airways.	6.615 megs.	45.32 m.

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.	6.796 megs.	44.12 m.	HIH, San Pedro de Macoris, D. R. 150 w. "La Voz del Higuamo." Sr. Domingo Dominguez.
WVD, Seattle, Wash. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg.	6.860 megs.	43.71 m.	KEL, Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.
6.620 megs. 45.29 m.	6.870 megs.	43.64 m.	RKF, Moscow, USSR. 20 kW.
PRADO, Riobamba, Ecuador. "Estacion El Prado." Member: Cadena Indo-Americana. Apartado 98. Thurs., 2100-2330 and other nights irregularly.	6.880 megs.	43.58 m.	CGA7, Drummondville, P. Q. Address VE9DN, 6.005 megs.
6.645 megs. 45.12 m.	6.900 megs.	43.45 m.	RKF, Moscow, USSR. 20 kW.
FG7, Langley Field, Va. Army airport.	6.905 megs.	43.42 m.	GDS, Rugby, England. 15 kW. Phones N. Y. nights Address GDW, 4.820 megs.
6.650 megs. 45.09 m.	6.928 megs.	43.27 m.	WEZ, Rocky Point, N. Y. Address WDB, 6.718 megs.
HC2RL, Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945.	6.935 megs.	43.23 m.	WEB, Rocky Point, N. Y. Works Paris. Address WDB, 6.718 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.	6.950 megs.	43.13 m.	WKP, Rocky Point, N. Y. Address WDB, 6.718 megs.
6.662 megs. 45.00 m.	6.976 megs.	42.98 m.	HCETC, Quito, Ecuador. "del Teatro Bolivar."
WXH, Ketchikan, Alaska. Phones Seattle.	6.990 megs.	42.89 m.	JVS, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.
6.666 megs. 44.98 m.	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.
ZP10, Asuncion, Paraguay.	7.005 megs.	42.80 m.	HB9H, Berne, Switzerland. Swiss Shortwave Association, 30 Neuengasse, Berne. First Monday each month, 1500-1615.
6.672 megs. 44.94 m.	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.
YVQ, Maracay (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radio-telegrafico.	7.090 megs.	42.29 m.	HKE, Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.
6.675 megs. 44.91 m.	7.175 megs.	41.78 m.	CR6AA, Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.
DGK, Nauen, Germany. Address: Reichspostzentramt, Telegraphentechnisches Reichsamt, Schoneberger Strasse 11-15, Berlin-Tempelhof.	7.220 megs.	41.53 m.	HAT2, Szekesferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian. French, English by lady. Address: Magyar Kiralyi Postakiserletli Allomas, IX Kerulet Gyali Ut 22, Budapest.
6.690 megs. 44.82 m.			
CGA6, Drummondville, P. Q. Address VE9DN, 6.005 megs.			
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.			
6.718 megs. 44.62 m.			
KBK, Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.			
WDB, Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.			
6.720 megs. 44.62 m.			
CFU, Rossland, B. C. Consolidated Mining & Smelting Co.			
6.725 megs. 44.57 m.			
WQO, Rocky Point, N. Y. Address WDB, 6.718 megs.			
6.735 megs. 44.53 m.			
KEQ, Kahuku, Oahu, Hawaii. Works California.			
6.790 megs. 44.42 m.			
JVT, Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG, 6.330 megs.			
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. RPK, Moscow, USSR. 20 kW.	41.50 m.	7.680 mags. YBZ, Menado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-In-charge, Post-Telegraafn TelefoonDienst, Bedrijf der Radiostations op Java, Bandoeng.	39.04 m.
7.260 mags. RFF, Kharkov, USSR. 1kW.	41.30 m.	7.685 mags. HJA3, Barranquilla, Colombia. TIR, Cartago, Costa Rica. Address: Compania Radiografica Internacional de C. R., San Jose.	39.01 m.
7.275 mags. RTZ, Irkutsk, USSR. 15 kW.	41.23 m.	7.715 mags. KEE, Bolinas, Calif. Address KEL, 6.860 mags.	38.86 m.
7.280 mags. HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heroica." Jzd. Villarreal, Director, Apartado 252. Daily, 1945-2115.	41.18 m.	7.740 mags. CEC, La Granja (Santiago) Chile. Address CEC, 5.820 mags.	38.74 m.
7.370 mags. WJN, Rocky Point, N. Y. Address WDB, 6.718 mags.	40.68 m.	7.797 mags. 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.	38.47 m.
7.380 mags. XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores. Sunday, 1800-1900.	40.63 m.	7.820 mags. OCO, Lima (Valverde), Peru.	38.34 m.
7.390 mags. HJ3ABD, Bogota, Colombia. 50 watts. "Colombia Broadcasting." Apartado 509. Daily, 1930-2300.	40.57 m.	7.830 mags. HC2JSB, Guayaquil, Ecuador. Interval sig.: one gong. LQP, Buenos Aires, Arg.	38.29 m.
JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 mags.		7.880 mags. JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.	38.05 m.
ZLT2, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.		7.920 mags. GCP, Rugby, England. Address GDW, 4.820 mags.	37.86 m.
7.400 mags. WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 mags.	40.51 m.	7.960 mags. VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney. XGL, Shanghai, China. Address: XGO, 7.575 mags.	37.67 m.
7.465 mags. HJP, Bogota, Colombia. Works Hialeah nights.	40.16 m.	7.968 mags. HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.	37.63 m.
7.470 mags. JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 mags.	40.14 m.	7.980 mags. VLZ (VK2ME), Pennant Hills (Sydney), Australia. Address VLZ, 7.960 mags.	37.57 m.
7.510 mags. JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 mags.	39.92 m.	8.020 mags. HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 mags.	37.38 m.
7.520 mags. KKH, Kahuku, Oahu, Hawaii. Works Dixon. RKI, Moscow, USSR. 20 kW. Kahuku, Oahu, Hawaii. Works GMBJ.	39.87 m.	8.035 mags. CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat.	37.31 m.
7.550 mags. CFQ, Edmonton, Alta. The E. Journal, Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg. CKS, Portable. Address CGE above. T18WS, Puntarenas, Costa Rica. "Ecos del Pacifico." Aptdo. 75.	39.71 m.	8.050 mags. WXA, Juneau, Alaska. Works WVD at 2400.	37.24 m.
7.565 mags. KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	39.63 m.	8.070 mags. IRF, Rome, Italy. Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.	37.15 m.
7.575 mags. XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	39.58 m.	8.095 mags. VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 mags.	37.04 m.
7.610 mags. KWX (W6XN), Dixon, Calif. Address KWY, 7.565 mags.	39.40 m.	8.120 mags. KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 mags.	36.92 m.
7.620 mags. EFA, Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	39.35 m.	8.180 mags. PSK, Rio de Janeiro (Marapicu) Brazil. Phones	36.65 m.
7.626 mags. RIM, Tashkent, USSR. Works RKI. 20 kW.	39.32 m.		

SHORT WAVE STATIONS BY FREQUENCIES

N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.		8.770 mogs.	34.19 m.
8.214 mogs. 36.50 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 mogs.	34.16 m.
8.220 mogs. 36.47 m.		PNI, Macassar, Celebes, N. E. I. 3 kW.	Phones Bandoeng. Address YBZ, 7,680 mogs.
WNED, Tampa, Fla. Pan American Airways, Inc. ZSV, Walvis Bay, Union of South Africa. 1 kW.		8.790 mogs.	34.11 m.
8.225 mogs. 36.45 m.		HJA3, Barranquilla, Colombia.	
RRD, Moscow, USSR. 20 kW.		8.810 mogs.	34.03 m.
8.396 mogs. 35.71 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 mogs.		8.830 mogs.	33.95 m.
8.455 mogs. 35.46 m.		SHIPS. For address of these ships refer to 4.413 mogs., 4.415 mogs and 4.430 mogs. All these ships work with WOO. The German ships work also DAF; British ships with GBC and CZA; Furness-Bermuda ships with ZFA-B.	
CWF, Montevideo (Cerrito) Uruguay. 1.5 kW.		DDBR, S. S. Berlin.	
8.464 mogs. 35.42 m.		DDCP, S. S. Cap Polonio.	
DAF, Norden, Germany. Works ships. Address Hauptfunkstelle Norddeich, Norden-Land.		DDFF, S. S. Reliance.	
8.500 mogs. 35.47 m.		DDFT, S. S. Oceana.	
JZF, Nazaki, Japan. 10 kW. Works ships. Address JZG, 6,330 mogs.		DHAO, S. S. Albert Ballin.	
8.560 mogs. 35.03 m.		DHDL, S. S. Cap Arcona.	
WOO, Ocean Gate, N. J. 20 kW. Works ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.		DHEY, S. S. Deutschland.	
WOY, Lawrenceville, N. J. 20 kW. Address WOO above.		DHJZ, S. S. Hamburg.	
8.565 mogs. 35.00 m.		DHRL, S. S. New York.	
HAT3, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7,220 mogs.		DOAH, S. S. Bremen.	
8.575 mogs. 34.96 m.		DOAI, S. S. Europa.	
TYD2, Pontoise, France. Phones Rabat.		FNSK, S. S. Normandie. Works WOO nights. Address 8.810 mogs.	
YCP, Balikpapan, N. E. I. 3 kW. Address YBZ, 7,680 mogs.		FNSM, S. S. Paris.	
8.620 mogs. 34.78 m.		FTNQ, S. S. Ile de France.	
WVD, Seattle, Wash. Works Alaska at 2400. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.		GBZW, S. S. Berengaria.	
8.625 mogs. 34.76 m.		GDLJ, S. S. Homeric.	
HC2CW, Guyaquil, Ecuador. "Ondas del Pacifico."		GFVV, S. S. Majestic.	
8.665 mogs. 34.60 m.		GLRZ, S. S. Aquitania.	
CO9JQ, Camaguey, Cuba. 150 watts. Rafael Grimany, Calle General Gomez No. 4.		GMBJ, S. S. Empress of Britain.	
8.680 mogs. 34.54 m.		GMJQ, S. S. Belgenland.	
GBC, Rugby, England. Works ships. Address GDW, 4,820 mogs.		VQJM, S. S. Monarch of Bermuda.	
8.690 mogs. 34.50 m.		VQJP, S. S. Queen of Bermuda.	
VWZ, Kirkee, Poona, India. 10 kW. Works also on freqs. 8,691, 8,693, 8,700 mogs. Phones London.		8.900 mogs.	33.69 m.
8.708 mogs. 34.43 m.		ZLS, Wellington, N. Z. Address Supt. of Post and Telegraphs, GPO.	
VWZ, Kirkee, Poona, India. 10 kW. Phones London.		8.930 mogs.	33.57 m.
8.710 mogs. 34.42 m.		WAD, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. City.	
CEC, La Granja, (Santiago) Chile. 800 watts. Address CEC, 5,820 mogs.		WEC, Rocky Point, N. Y. Address WAD above.	
8.750 mogs. 34.26 m.		8.940 mogs.	33.54 m.
ZBW, Hong Kong, 500 w. The Secy., Hong Kong Brdcastg. Committee, P. O. Box 200.		KZGG, Cebu, Island of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	
		WKL, Rocky Point, N. Y. Address WAD. 8,930 mogs.	
		8.950 mogs.	33.50 m.
		WEL, Rocky Point, N. Y. Address WAD, 8,930 mogs.	
		8.975 mogs.	33.41 m.
		VWY, Kirkee, Poona, India. Phones London.	
		9.010 mogs.	33.28 m.
		KEJ, Bolinas, Calif. 20-40 kW. Address KEL, 6,860 mogs.	
		9.020 mogs.	33.24 m.
		GCS, Rugby, England. 15 kW. Phones N. Y. night.	
		9.040 mogs.	33.17 m.
		TYA2, Pontoise, France. Phones Algeria.	
		9.050 mogs.	33.13 m.
		TFK, Reykjavik, Iceland. 8.5 kW.	

SHORT WAVE STATIONS BY FREQUENCIES

9.120 mags. CP6, La Paz, Bolivia. "Illimani Radio." Compania Radio Boliviana, Casilla 637.	32.88 m.	German. Address: Director of the Imprensa Nacional. Daily, 1730-1815.
9.125 mags. HAT4, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 mags.	32.86 m.	9.510 mags. 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 mags. Daily, 0115-0315; 1215-1500; 1515-1645.
9.168 mags. VVR, Santa Rita, Maracay, Venezuela. Address YVQ, 6.672 mags.	32.70 m.	9.520 mags. XEDQ, Guadalajara, Jal. Relays XED. Address Cla. Radionografica, Apartado 197. Daily, 0800-0900; 1200-2400.
9.170 mags. 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	32.70 m.	9.530 mags. 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 mags. GCB, Rugby, England. 15 kW. Phones Canada. Address Engineer-in-Chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.	32.31 m.	9.540 mags. DJN, Zeesen, Germany. 8 kW. Programs close with "Deutschland ueber alles" and "Horst Wosselled." Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 mags.
9.332 mags. CGA4, Drummondville, P. Q. Phones London. Address VE9DN, 6.005 mags.	32.13 m.	LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 mags. Daily, 0500-0800.
9.415 mags. PLV, Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veen, Post-Telegraafen Telefoon dienst, Bedrijf der Radiostations op Java, Bandoeng.	31.84 m.	9.550 mags. HH2R, Port au Prince, Haiti.
9.428 mags. 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.	31.80 m.	9.555 mags. VE9DN, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
9.448 mags. WES, Rocky Point, N. Y. Address WAD, 8.930 mags.	31.74 m.	9.560 mags. DJA, Zeesen, Germany. For details see DJN, 9.540 mags.
9.450 mags. TG1X, Guatemala City, Guat. 200 watts. Ministerio de Fomento.	31.73 m.	9.565 mags. VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.
9.460 mags. WKJ, New Brunswick, N. J. Address WNA, 9.170 mags.	31.69 m.	9.570 mags. 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.
9.470 mags. WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 mags.	31.66 m.	W8XK, Pittsburgh (Saxonburg), Pa. This frequency loaned to W1XK.
9.480 mags. KES, Bolinas, Calif. RCA Communications, Inc.	31.63 m.	9.575 mags. VUC, Calcutta, India. Refer to VUC, 6.112 mags.
9.490 mags. KZGH, Iloilo, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	31.59 m.	9.580 mags. GSC, Daventry, England. 20 kW. "C for Corporation." For other details see GSB, 9.510 mags. Daily, 1800-2000; 2200-2300.
OXY, Copenhagen, Denmark. Not used at present. SRI, Poznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Poznan. (This station is probably off the air).		VE9DR, Montreal, P. Q. Address VE9DN, 9.555 mags.
9.500 mags. XGOX, Nanking, China. See 6.000 mags.	31.56 m.	VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.
9.503 mags. 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.	31.55 m.	XGBD, Shanghai, China. 18.5 kW. (Existence doubtful.)
9.505 mags. PRF5, Rio de Janeiro, Brazil. "Radio Journal." Program consists of talks in Portuguese, Spanish, English and sometimes French,	31.54 m.	9.585 mags. 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.

SHORT WAVE STATIONS BY FREQUENCIES

		9.930 megs.	30.19 m.
	Villejust, France. 120 kW. (Under construction.)	HJY, Bogota, Columbia. Phones CEC, OCI evenings.	
	9.590 megs.	31.26 m.	
HP5J,	Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.	9.950 megs.	30.13 m.
W3XAU,	Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 megs. Daily, 1200-2000.	GCU, Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9.280 megs.	
	9.595 megs.	31.25 m.	
HBL,	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.	9.990 megs.	30.61 m.
	9.600 megs.	31.23 m.	
CT1AA,	Lisbon, Portugal. 2kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguir 144. Tues., Thurs., Sat., 1630-1900.	KAZ, Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.	
LQA,	Buenos Aires, Argentina. Compania Internacional de Radio, Defensa 143, B. A.	LSL, Buenos Aires, Argentina. Address LQA, 9.600 megs.	
	9.609 megs.	31.20 m.	
DGU,	Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 megs.	10.000 megs.	29.98 m.
	9.630 megs.	31.13 m.	
12RO,	Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.	WWV, Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.	
	9.710 megs.	30.88 m.	
GCA,	Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 megs.	10.040 megs.	29.86 m.
	9.750 megs.	30.75 m.	
RKF,	Moscow, USSR. 20 kW.	HII, Santo Domingo, D. R.	
VLJ,	Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME, 9.585 megs.	10.055 megs.	29.82 m.
WOF,	Lawrenceville, N. J. Address WNA, 9.170 megs.	SUV, Cairo (Abu Zabal), Egypt. 10 kW. Marconi Radio Telegraph Co., of Egypt. S. A., Box 795, Cairo.	
	9.790 megs.	30.63 m.	
GCW,	Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9.280 megs.	ZFB, Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.	
	9.830 megs.	30.50 m.	
IRM,	Rome, Italy. "Italo Radio"	10.070 megs.	29.77 m.
	9.840 megs.	30.47 m.	
JYS,	Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.	EHY, Madrid (Pozuelo del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	
	9.862 megs.	30.40 m.	
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.	10.080 megs.	29.74 m.
	9.870 megs.	30.38 m.	
WON,	Lawrenceville, N. J. 20 kW. Works London. Add.: WNA, 9.170.	RIR, Tiflis, USSR. Works RIO, RNE mornings.	
	9.890 megs.	30.32 m.	
LSN2,	Buenos Aires (Hurlingham), Argentina. Address LQA, 9.600 megs.	10.135 megs.	29.58 m.
	9.895 megs.	30.30 m.	
LSN,	Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9.600 megs.	OPM, Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.	
	9.920 megs.	30.22 m.	
JDY,	Darien. Works JVU. Nazaki.	10.160 megs.	29.51 m.
		10.200 megs.	29.34 m.
		10.250 megs.	29.25 m.
		10.260 megs.	29.22 m.
		10.285 megs.	29.15 m.
		10.290 megs.	29.14 m.
		10.300 megs.	29.11 m.
		10.310 megs.	29.08 m.
		10.330 megs.	29.02 m.
		10.335 megs.	29.01 m.

SHORT WAVE STATIONS BY FREQUENCIES

on special transmissions to Town Clerk, St. George.	
10.358 megs.	28.97 m.
LSX, Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	
10.370 megs.	28.91 m.
EHZ, El Tablero, Canaries. Works EHX. WCG (W2XBJ), Tuckerton, N. J.	
10.375 megs.	28.89 m.
JVO, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address JZG, 6.330 megs.	
10.400 megs.	28.83 m.
KEZ, Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Fran- cisco, Calif.	
10.410 megs.	28.80 m.
....., Bolinas, Calif. 40 kW. Address KEZ, 10.400 mgs.	
PDK, Kootwijk, Netherlands. 60 kW. Address Radio- laboratory, Neth. State Telegraphs, Park- straat 29, S'Gravenhage.	
10.420 megs.	28.77 m.
XGW, Shanghai, China. 20 kW. Address XGO, 7.575 megs.	
10.430 megs.	28.75 m.
YBG, Medan, Sumatra, N. E. I. 3 kW. Works Ban- doeng. Director of Govt. Radio Service, Telegraaf en Telefoon dienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300.	
10.465 megs.	28.64 m.
WKC, Rocky Point, N. Y. 100 kW. Address WAD, 8.930 megs.	
10.520 megs.	28.50 m.
VLK, Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 megs.	
10.530 megs.	28.47 m.
GBX, Rugby, England. 8 kW. Address GCB, 9.280 mgs.	
JIB, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	
10.550 megs.	28.42 m.
WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.	
10.610 megs.	28.25 m.
WEA, Rocky Point, N. Y. 40 kW. Address WAD, 8.930 megs.	
10.620 megs.	28.23 m.
EHX, Madrid (Pozuelo del Rey), Spain.	
10.660 megs.	28.13 m.
JVN, Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 megs. Mon., Thurs., 1600-1700; daily, 0000-0100.	
10.670 megs.	28.10 m.
CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting Irregularly.	
PLQ, Bandoeng, N. E. I. 60 kW.	
10.675 megs.	28.09 m.
WNB, Lawrenceville, N. J. 500 watts. Phones Ber- muda. Address, WNA, 9.170 megs.	
10.740 megs.	27.92 m.
JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.	
10.770 megs.	27.84 m.
GBP, Rugby, England. 15 kW. Address GCB, 9.280 mgs.	
10.840 megs.	27.66 m.
KWV (W6XN), Dixon, Calif. 20 kW. Address: Trans- pacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.	
10.850 megs.	27.63 m.
DFL, Nauen, Germany.	
10.960 megs.	27.36 m.
JZB, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Add: Manchukuo Tele- phone & Telegraph Co., Ltd., Shinkio.	
11.000 megs.	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 megs.	26.91 m.
XGB, Shanghai, China. 15 kW. (Existence doubtful).	
11.370 megs.	26.38 m.
CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.	
11.495 megs.	26.08 m.
VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 megs.	
11.660 megs.	25.71 m.
JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 megs.	
11.670 megs.	25.69 m.
PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Ad- dress, see PSH, 10.220 megs.	
11.680 megs.	25.67 m.
KIO, Kahuku, Oahu, Hawaii. Works Bolinas., Kahuku, Oahu, T. H. Works GMBJ.	
11.720 megs.	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, Tele- graphes et Telephones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann, Paris. Daily, 1900-2200; 2300-0100.	
11.725 megs.	25.57 m.
PHI, Hilversum, Netherlands. 23.6 kW. (Winter frequency). Philips' Omroep Holland- Indle, Emmasingel 29, Eindhoven. An- nounces in Dutch, Malay, German, French, English, Spanish, Portuguese. Close: Dutch National Anthem.	
11.750 megs.	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 megs. Daily, 0115-0315; 1215-1600; 1800-2000; 2200-2300.	
11.770 megs.	25.47 m.
DJD, Zoesen, Germany. 8 kW. Programs close with Nazl Hymn and Watch on the Rhine. Pro- grams preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 mgs.	

SHORT WAVE STATIONS BY FREQUENCIES

11.790 megas. 25.43 m. DJO, Zeesen, Germany. Address DJC, 6.020 megas. HH2T, Port-au-Prince, Haiti. W1XAL, Boston, Mass. 5 kW.	12.150 megas. 24.68 m. GBS, Rugby, England. 15 kW. Phones N. Y. after- noons. Address: GCB, 9.280 megas.
11.800 megas. 25.37 m. CO9WR, Sancti-Spiritus, Cuba. 150 watts. V. E. Weiss y O. Ramirez, Apartado 85.	12.215 megas. 24.55 m. TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 megas.
11.810 megas. 25.39 m. VE9GW, Toronto (Bowmanville), Ont.	12.225 megas. 24.53 m. TFK, Reykjavik, Iceland. 8.5 kW.
11.811 megas. 25.38 m. IRE, Rome, Italy. Address I2RO, 9.630 megas. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.	12.240 megas. 24.49 m. GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 megas.
11.830 megas. 25.34 m. W2XE, New York, N. Y. (Wayne, N. J.) Relays CBS, WABC. 10 kW. Address W2XE, 6.120 megas. Daily, 1500-1700. W9XAA, Chicago, Ill.	12.250 megas. 24.48 m. TYB, Pontoise, France. Works JVH and Ships.
11.845 megas. 25.31 m. Villejust, France. 120 kW. Under con- struction.	12.260 megas. 24.46 m. FTN, Ste. Assise, France. Address: FTA, 11.940 megas.
11.860 megas. 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 megas. Daily, 1100-1200.	12.270 megas. 24.52 m. JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megas. RKK, Moscow, USSR. 20 kW.
11.870 megas. 25.25 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA, Westinghouse Electric & Man- ufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.	12.325 megas. 24.33 m. DAF, Norden, Germany. 5 kW, Phones ships, morn- ings. For address see DAF, 8.464 megas.
11.880 megas. 25.24 m. "Radio Coloniale," Pontoise, France. 15 kW. Address, see 11.720 megas. Daily, 1115- 1415; 1500-1800.	12.500 megas. 23.99 m. RKF, Moscow, USSR. 20 kW. ZSV, Walvis Bay, Union of South Africa. 1 kW.
11.940 megas. 25.11 m. FTA, Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Hauss- mann, Paris VIII. (ETA-ETB?), Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	12.745 megas. 23.60 m. DAF, Norden, Germany. 5 kW. Works ships. Ad- dress DAF, 8.464 megas.
11.950 megas. 25.08 m. KKQ, Bolinas, Calif. Address KEZ, 10.400 megas.	12.780 megas. 23.46 m. GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megas.
11.990 megas. 25.00 m. FZS2, Saigon, French Indo-China. 15 kW. Phones Paris. Cie Generale de Telegraphie Sans Fil, Boite Postale 238.	12.795 megas. 23.45 m. IAC, Caltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megas.
12.000 megas. 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.	12.830 megas. 23.36 m. CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 megas. HJA3, Barranquilla, Colombia.
12.020 megas. 24.94 m. JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megas.	12.840 megas. 23.35 m. WOO, Ocean Gate, N. J. 20 kW. Works ships. Ad- dress WNA, 9.170 megas. WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megas.
12.030 megas. 24.92 m. HBO, Prangins, (Geneva), Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megas.	12.862 megas. 23.31 m. WOEH, Broadcast pickup. NBC, 30 Rockefeller Plaza, NYC.
12.035 megas. 24.91 m. DJK, Nauen, Germany. 7.2 kW. Address DGK, 6.675 megas.	12.930 megas. 23.18 m. WAW, Hialeah, Fla.
12.050 megas. 24.88 m. PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megas.	12.955 megas. 23.14 m. GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.
	13.020 megas. 23.03 m. JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 megas.
	13.040 megas. 22.99 m. SHIPS. For address of these ships refer to 4413, 4415 and 4430 megas. All these ships work with WOO, and DAF. DDBR, S. S. Berlin. DDCP, S. S. Cap Polonio. DDFF, S. S. Reliance. DDFT, S. S. Oceana.

SHORT WAVE STATIONS BY FREQUENCIES

DHAO, Albert Ballin. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland. DHJZ, S. S. Hamburg. DHRL, S. S. New York. DOAH, S. S. Bremen. DOAI, S. S. Europa.	13.630 megs. 22.00 m.	SPW, Warsaw, Poland. 10 kW. Minister of Posts and Telegraphs, Mazawlecka 5, Warsaw.
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. IBEJ, S. S. Conte Rosso. IBGI, S. S. Conte Verde. IBLI, S. S. Conte di Savoia. ICEJ, S. S. Rex.	13.690 megs. 21.90 m.	KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10.400 megs.
13.075 megs. 22.93 m. VPD, Suva, Fiji. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva. Daily exc. Sunday. 0030-0130.	13.745 megs. 21.81 m.	CGA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
13.105 megs. 22.88 m. IRJ, Rome, Italy.	13.780 megs. 21.75 m.	KKW, Bolinas, Calif. Address: KEZ, 10.400 megs.
13.140 megs. 22.82 m. CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.	13.810 megs. 21.71 m.	HRM, Tela, Honduras. Tela Railroad Co. SUZ, Carlo (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and /3.830 megs. Address SUV, 10.055 megs.
13.190 megs. 22.73 m. FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 megs.	13.870 megs. 21.61 m.	WIY, Rocky Point, N. Y. Address: WPE, 13.840 megs.
13.200 megs. 22.71 m. CFU, Rossland, B. C. Consolidated Mining & Smelting Co.	13.900 megs. 21.57 m. 13.840 megs.	WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 megs.
13.210 megs. 22.70 m. FNSK, S. S. Normandie. Works WOO, afternoons Address FNSK, 8.810 megs.	13.980 megs. 21.45 m.	LCO, Jeloy, Norway. 1kW. Address LCL, 6.130 megs.
13.320 megs. 22.51 m. GBZW, S. S. Berengaria. GDLJ, S. S. Homeric. GFVV, S. S. Majestic. GLRZ, S. S. Aquitania. GMJQ, S. S. Belgenland.	13.984 megs. 21.44 m.	GBA, Rugby, England. Address GCB, 9.280 megs.
13.337 megs. 22.48 m. YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.	14.000 to 14.400 megs. 20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 megs.	
13.390 megs. 22.39 m. WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 megs.	14.000 megs. 21.42 m.	HJ5ABE, Cali, Colombia. Apartado 50. Daily 1900-2200.
13.395 megs. 22.39 m. FNSM, S. S. Paris. FTNQ, S. S. Ile de France.	14.236 megs. 21.06 m.	HB9B, Berne, Switzerland. Swiss Shortwave Association, 30 Neuengasse, Berne. First Monday every month 1510-1615; 1800-1900.
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.	14.290 megs. 20.99 m.	HB9AT, Berne, Switzerland. Address HB9B above. First Monday each month, 1800-1900.
13.435 megs. 22.31 m. WEL, Rocky Point, N.Y. Phones London. Address WAD, 8.930 megs.	14.400 megs. 20.82 m.	HB9J, Berne, Switzerland. Address HB9B above. First Monday each month, 1510-1615.
13.500 megs. 22.21 m. GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 megs.	14.430 megs. 20.81 m.	DIP, Zoesen, Germany.
13.560 megs. 22.11 m. JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC Harbin. Address: Kokusai-Donwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	14.440 megs. 20.76 m.	GBW, Rugby, England. 15 kW. Address GCB, 9.280 megs.
13.600 megs. 22.05 m. JYK, Kemikawa-Cho, Chiba-Ken, Japan. Experimental.	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.
	14.535 megs. 20.63 m.	YNA, Managua, Nicaragua. Phones Hialeah days.
		HBJ, Prangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.

SHORT WAVE STATIONS BY FREQUENCIES

14.545 megs. 20.69 m.
HPF, Panama City, Panama. Phones Hiialeah days.
TGF, Guatemala City, Guat. Phones Hiialeah days.
TIN, Cartago, Costa Rica. Phones Hiialeah days.
 Compania Radiografica Internacional de C. R., San Jose.
TIU, Cartago, Costa Rica. See TIN above.

14.590 megs. 20.55 m.
WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 megs.

14.640 megs. 20.42 m.
JVH, Nazaki, Japan. 20 kW. Address JVI, 13.560 megs. Works GCI, 0200-0600.

14.690 megs. 20.41 m.
PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709.

14.740 megs. 20.34 m.
IRG, Massawa, Eritrea.

14.790 megs. 20.27 m.
ROU, Omsk, USSR.

14.800 megs. 20.26 m.
WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.

14.830 megs. 20.21 m.
WKU, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.

14.845 megs. 20.20 m.
OCJ2, Lima (Valverde) Peru.

14.910 megs. 20.11 m.
JVG, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address: JVI, 13.560 megs.

14.930 megs. 20.08 m.
HJB, Bogota, Colombia. Phones Hiialeah, days.

14.935 megs. 20.07 m.
PSA, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14.690 megs.

14.980 megs. 20.01 m.
KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.

15.000 megs. 19.99 m.
WWV, Beltsville, Md. 1kW. National Bureau of Standards, Washington, D. C. Wed, 1200-1300.

15.040 megs. 19.93 m.
RKI, Moscow, USSR. 20 kW. Works RIM Tashkent.

15.055 megs. 19.91 m.
WNC, Hiialeah, Fla. 400 watts. Works HJB, HJP, HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.

15.070 megs. 19.89 m.
PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Madrid and Buenos Aires mornings. Address: PSF, 14.690 megs.

15.090 megs. 19.87 m.
RKI, Moscow, USSR. 20 kW. Works Rocky Point.

15.104 megs. 19.85 m.
RAU, Tashkent, USSR. Phones Moscow mornings.

15.120 megs. 19.83 m.
HVJ, Vatican City. 10 kW. Interval sig.: clock tick-

ing for 10 minutes preceding transmission¹ bells of St. Peter's at 3 o'clock. Announcement: La Imitacion Jesus Christus. Talk; as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticana, Pontificia Accademia Della Scienza, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1015.

15.140 megs. 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, 0900-1230; daily exc. Sun., 0500-0845; Sun., 0630-0345.

15.200 megs. 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 megs.

15.210 megs. 19.71 m.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.

15.220 megs. 19.70 m.
PCJ, Hilversum, Netherlands. Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.

15.250 megs. 19.66 m.
 "Radio Coloniale," Pontoise, France. 12 kW. Address, see 11.720 megs. Daily, 0700-1100.
W1XAL, Boston, Mass. 5 kW.

15.260 megs. 19.65 m.
GSI, Daventry, England. "I for Island." For other details see GSF, 15.140 megs.

15.270 megs. 19.64 m.
W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6.120 megs. Daily 1100-1300.

15.280 megs. 19.62 m.
DJQ, Zeesen, Germany.

15.295 megs. 19.60 m.
 , Villejust, France. 120 kW. Under construction.

15.300 megs. 19.60 m.
CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637.
OXY, Copenhagen, Denmark.

15.330 megs. 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 megs. 19.55 m.
DJR, Zeesen, Germany.

15.350 megs. 19.53 m.
CT1AA, Lisbon, Portugal. 2kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 megs.

SHORT WAVE STATIONS BY FREQUENCIES

15.355 megs. KWU (W6XN), Dixon, Calif. 20 kW. Address KWW, 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, Szekesferhervar, 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 KWW 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 JVI 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.
15.650 megs. JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13.560 megs.	19.15 m.	17.260 megs. DAF, Norden, Germany, 5 kW. Works ships. Address DAF, 8.464 megs.	17.37 m.
15.680 megs. JZA, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVI. 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.	17.480 megs. VWY, Kirkee, Poona, India. Phones London.	17.15 m.
15.860 megs. CEC, La Granja (Santiago), Chile. 800 watts. Phones Peru, afternoons. Address CEC, 10.670 megs.	18.90 m.	17.520 megs. DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6.675 megs.	17.11 m.
JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 megs.		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.	18.400 megs.	16.29 m.	PCV, Kootwijk, Netherlands. Works Java. Address: PCV, 17.830 megs.
W9XAA, Chicago, Ill. Not used at present.	18.444 megs.	16.25 m.	HJY, Bogota, Colombia. Works CEC, LSR, OCI days.
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.	18.450 megs.	16.25 m.	HBH, Prangins, Switzerland. 20 kW. Address: HBJ, 14.535 megs.
17.790 megs.	16.85 m.		
PCV, Kootwijk, Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.	18.600 megs.	16.12 m.	PCM, Kootwijk, Netherlands. Address: PCV, 17.830 megs.
17.830 megs.	16.82 m.		
PLF, Bandoeng, Java, N. E. I.	18.620 megs.	16.10 m.	GAU, Rugby, England. 15 kW. Address: GBX, 16.150 megs.
17.850 megs.	16.80 m.		
WLL, Rocky Point, N. Y. 20 kW. Address WPE, 13.840 megs.	18.670 megs.	16.06 m.	OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR, WNC days. Compania Peruana de Telefonos, Apartado 986, Lima.
17.900 megs.	16.75 m.		
WQF, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	18.830 megs.	15.92 m.	PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon nights, Tokyo mornings. Address: PMC, 18.135 megs.
17.920 megs.	16.73 m.		
WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	18.860 megs.	15.89 m.	WKM, Rocky Point, N. Y. 40 kW. Address: R. C. A., 66 Broad St., N. Y. City.
17.940 megs.	16.71 m.		
KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.	18.890 megs.	15.87 m.	ZSS, Capetown (Klipheuevel), Union of South Africa. 5kW. Works London. Overseas Communication Co., Kodak House, Shortmarket St., Capetown.
18.020 megs.	16.64 m.		
LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.	18.900 megs.	15.86 m.	WDS, Rocky Point, N. Y. Address WKM, 18.860 megs.
18.115 megs.	16.55 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 Telefoon dienst, Bedrijf der Radiostations op Java, Bandoeng.	18.910 megs.	15.86 m.	JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.
18.135 megs.	16.53 m.		
CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	18.920 megs.	15.84 m.	WQE, Rocky Point, N. Y. Address WKM, 18.860 megs.
18.180 megs.	16.49 m.		
JVB, Nazaki, Japan. 10 kW. Works PLE, PLV. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	18.950 megs.	15.82 m.	HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 megs.
18.190 megs.	16.48 m.		
GAW, Rugby, England. 15 kW. Works N. Y. Address: GBX, 16.150 megs.	18.970 megs.	15.80 m.	GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 megs.
18.200 megs.	16.47 m.		
ETA, Addis Ababa, Ethiopia. 2 kW.	19.120 megs.	15.68 m.	LSM, Buenos Aires, Argentina. Works Europe.
18.270 megs.	16.41 m.		
YVR, Maracay (Santa Rita), Venezuela. Works Berlin. Estados Unidos de Venezuela, Servicio Radiotelegrafico.	19.200 megs.	15.62 m.	ORG, Brussels (Ruyssedele), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 megs.
18.296 megs.	16.39 m.		
GAS, Rugby, England. Works N. Y. mornings. Address: GBX, 16.150 megs.	19.220 megs.	15.60 m.	WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.350 megs.
18.304 megs.	16.38 m.		
FTE, Ste. Assise, France. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.	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.
18.330 megs.	16.36 m.		
FZS, Saigon, French Indo-China. Works Paris. Address: FZ52, 11.990 megs.	19.345 megs.	15.50 m.	PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 megs.
18.342 megs.	16.35 m.		
WLA, Lawrenceville, N.-J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.	19.355 megs.	15.46 m.	FTM, Ste. Assise, France. Address: FTE, 18.330 megs.
18.350 megs.	16.34 m.		

SHORT WAVE STATIONS BY FREQUENCIES

19.520 megs. 15.36 m. IRW, Rome, Italy. Works Argentina. 20 kW. Address: Societa Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.	WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 megs.
19.600 megs. 15.30 m. LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.	21.070 megs. 14.23 m. PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW. Works N. Y. Address: PSF, 14.500 megs.
19.680 megs. 15.24 m. CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 13-D, Santiago.	21.128 megs. 14.19 m. LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 megs.
19.820 megs. 15.13 m. WKN, Lawrenceville, N. J. Address: WLA, 18.350.	21.410 megs. 14.00 m. WKK, Lawrenceville, N. J. Address: WLA, 18.250 megs.
19.900 megs. 15.06 m. LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.	21.460 megs. 13.97 m. W1XAL, Boston, Mass. 5 kW.
19.980 megs. 15.01 m. KAX, Manila, P. I. Radio Corp of the Philippines, Plaza Moraga, Manila.	21.470 megs. 13.96 m. GSH, Daventry, England. "H for Home." Interval sig: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: British Broadcasting Corp., Brdcsting. House, London W.1.
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.	21.490 megs. 13.95 m. Villejust, Franca. 120 kW. Under construction.
20.040 megs. 14.97 m. OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.	21.530 megs. 13.93 m. GSJ, Daventry, England. "J for Justice." See GSH, 21.470 megs.
20.100 megs. 14.91 m. WQY, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 megs.	21.540 megs. 13.92 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.
20.368 megs. 14.72 m. GAA, Rugby, England. 15 kW. Address: GBX 16.150 megs.	22.290 megs. 13.45 m. GBU, Rugby, England, Works N. Y. Address: GBX, 16.150 megs.
20.605 megs. 14.55 m. PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 megs.	26.100 megs. 11.49 m. GSK, Daventry, England. "K for King." See GSH, 21.470 megs.
21.020 megs. 14.27 m. LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.480 megs.	29.820 megs 10.05 m. IAF, Fiumicino, Italy, 5 kW.
21.060 megs. 14.24 m. KWN, (W6XN), Dixon, Calif. 20 kW. Address: KWV, 10.840 megs.	30.604 megs. 9.80 m. IAG, Golfo Aranci, Sardinia. 5 kW.

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	KIIO 2.994	Port Armstrong	KIJW 2.632
	Fairbanks	Jack Wade	KIIO 3.190	KGXU 1.622	Tanana
Angoon	KIFM 4.124	KAEF 2.616	Nakeen	Port Conclusion	KIJJ 2.994
KAED 2.616	False Pass	KAEF 2.994	KHV 2.566	KIJI 1.622	KIJJ 3.190
KAED 3.093	KDX 2.986	Juneau	KICE 3.265	Port Herbert	Tin City
	Fort Yukon	KMYA 2.304	Nellie Juan	KIJO 1.622	KION 2.616
Cape Pole	KIIL 2.994	KMYA 4.610	KGI 2.632	Port Hobron	Todd
KIJB 2.994	KIIL 3.190	WXA 8.050	KIOD 2.632	KHZ 2.912	KGQ 2.986
Circle	Hidden Inlet	Kadiak Island	KIOP 2.632	KIMA 2.632	KIJU 2.986
KIIK 2.994	KIDE 3.265	KIJX 2.632	Newport Walter	Port San Juan	Uganik
KIKK 3.190	KLD 2.566	Kake	KIJS 1.622	KIJR 2.986	KIJP 2.986
Cordova	Hoonah	KIBA 3.093	Pillar Bay	P. Wakefield	Unlon Bay
KDV 2.538	KIUZ 3.093	KLC 2.512	KDY 2.994	KGX 2.632	KFF 2.566
Deep Cove	Hot Springs	Ketchikan	KNBZ 2.994	KIOC 2.632	KICG 3.265
KHP 1.622	KIIM 2.994	KBAI 2.304	Poorman	Red Bluff	View Cove
KIJV 1.622	KIIM 3.190	KGM 2.512	KIEJ 2.994	KIOG 1.622	KICI 3.093
Eagle	Hydaburg	KIAY 3.093	Port Alexander	Rose Inlet	Washington Bay
KIIN 2.994	KAEB 2.616	WXH 2.604	KDH 2.538	KIAP 3.093	KIJK 1.622
KiIN 3.190	KAEB 3.265	WXH 6.662	KGXW 1.606	KLE 2.512	

SHORT WAVE STATIONS BY LOCATIONS

Waterfall

KIBZ	3.265
KLA	2.566
Wrangell	
KDK	2.538

ARGENTINA (LOA-LVZ)

Buenos Aires

LQA	9.500
LSF	19.600
LSG	19.900
LSL	9.990
LSL	10.250
LSM	19.120
LSM	21.128
LSN	9.995
LSN	14.480
LSN	21.070
LSN2	9.990
LSR	18.958
LSX	10.350
LSY3	18.115

AUSTRALIA (VHA-VMZ)

Adelaide

VIA	1.520
Fiskville	
VIZ3	11.495
Melbourne	
VK3LR	9.580
VK3ME	9.503
Sydney	
VKO	1.520
VK2ME	9.595
VLJ	9.750
VLK	8.095
VLK	10.520
VLZ	7.960
VLZ	7.980

AUSTRIA (OAE-OEZ)

Vienna

OER2	6.072
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AZORES (CTZ-)

Ponta Delgada

CT2AJ	4.000
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BAHAMAS (ZF-)

Cat Cay

ZFO	5.300
Nassau	
ZFS	4.512

BELGIAN CONGO (OP-)

Leopoldville

OPL	20.040
OPM	10.135

BELGIUM (ONA-OTZ)

Brussels

ORG	19.200
ORK	10.330

BERMUDA (ZF-)

Hamilton

ZFA	5.025
ZFB	10.055
St. George	
ZFD	10.335

BOLIVIA (CPA-CPZ)

La Paz

CP5	6.080
CP6	9.120
CP7	15.300

BRAZIL (PPA-PYZ)

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	17.220
PSK	8.180

BRITISH GUIANA (VP3)

Georgetown

VP3MR	7.080
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CANADA (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)

ALBERTA

Calgary

CGE	3.040
CGE	7.550
CKS	3.040
CKS	7.550
VDC	4.490
VE9CA	6.030
VE9CA	11.860
Edmonton	
CFQ	3.040
CFQ	7.550

BRITISH COLUMBIA

Alert Bay

VAF	1.510
Anyox	
CZQ	5.405
Bones Bay	
CFW	2.290
Campbell River	
CGT	4.865
CJD	1.510
CJD	1.540
Cape Lazo	
VAC	1.510
Ceepceecce	
CJE	2.290
Claydon Bay	
CZP	4.505
Homalko	
VFJ	2.290

Humpback Bay

CZL	2.290
Knight Inlet	
CJK	1.510
Margaret Bay	
CJX	2.290

CFV

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

Rosland

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
VE9CS	6.070

Waterloo Mine

CZV	3.300
CZV	4.840

MANITOBA

Winnipeg

CJRO	6.150
CJRX	11.720
CJU	3.070
CJU	3.452
CVW	2.396

NEW BRUNSWICK

Fredericton

VE9AS	6.425
St. John	
CJW	2.416
VE9BJ	6.090

NOVA SCOTIA

Halifax

CHNX	6.110
VBQ	2.350
Lunenburg	
VBY	1.540
VBY	1.650
Pictou	
CKB	2.284
Pictou Island	
CKU	2.284

ONTARIO

Bowmanville

VE9GW	11.810
Kenora	
CFD	1.620
CFD	5.660
Leamington	
CFT	2.284
Peelee Island	
CFX	2.284

Red Lake

CFJ	1.520
CFJ	5.660

Toronto

CRCX	6.090
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PRINCE EDWARD ISLAND

Borden

CJM	1.580
Charlottetown	
VE9EH	6.080

QUEBEC

Bellevue

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	12.563
VE9DN	6.005
VE9DN	9.555
VE9DN	11.780

High Falls

VYZ	2.212
Manicouagan	
CFM	1.620
Montmagny	
CKP	2.284

Montreal

CGM	3.152
VE9DR	6.005
VE9DR	9.580
VYR	1.712
Riviere du Chef	
CZY	1.620
St. Feleicien	
CZZ	1.620

Tabouret

CFL	1.620
Verdun	
CJZ	2.452
Yamachiche	
CGY	3.152

SASKATCHEWAN

Cub Lake

CFC	1.596
CFC	1.668
Emma Lake	
CGV	1.596
CGV	1.668

Hudson Bay

Junct.

VXV	5.540
Isle-a-la-Crosse	
CZJ	1.596
CZJ	1.668

Lac la Ronge

CGQ	1.596
CGQ	1.668
Prince Albert	
VYP	1.595
VYP	1.668

Regina

VXU	5.540
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Portable

VXW	5.540
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CANAL ZONE (W)

Albrook Field

WTR	6.385
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CANARIES (El Tablero)

EHZ	10.370
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CHILE (CAA-CEZ)

Santiago

CEC	5.820
CEC	7.740
CEC	8.710
CEC	10.670
CEC	15.960
CEC	19.680

CHINA (XGA-XUZ)

Nanking

XGOX	6.000
XOX	9.500
XGOX	11.900
XGOX	17.800
Shanghai	
XGB	11.140
XGBD	9.580
XGK	18.690
XGL	7.960
XGN	16.380
XGO	7.575
XGW	10.420

COLOMBIA (HJA-HKZ)

Barranquilla

HJA3	7.685
HJA3	8.790
HJA3	12.830
HJ3AB	6.447
HJ3AB	6.042
Bogota	
HJA2	5.825
HJB	14.930
HJN	6.090
HJP	7.465
HJY	9.930
HJY	18.444
HJ3ABD	7.390
HJ3ABF	6.200
HJ3ABH	6.012
HKE	7.090
Bucaramanga	
HJ2ABD	5.980
Cali	
HJ5ABD	6.490
HJ5ABE	14.000
Cartagena	
HJ1ABD	7.280
HJ1ABE	6.115
Cienaga	
HJ1ABH	6.300

Cucuta

HJ17	5.400
HJ2ABC	5.975

Ibaque

HJ4ABC	6.450
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Manizales

HJ3AB	7.200
HJ4AB	6.100

Medellin

HJ4ABA	11.720
HJ4ABD	6.060
HJ4ABE	5.900

Quibdo

HJ1ABC	6.010
Santa Marta	
HJ1ABJ	6.006

Tunja

HJ2ABA	6.170
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COSTA RICA (TIA-TIZ)

Cartago

TIN	14.545
TIU	14.545
TIR	7.685
Puntarenas	
T18WS	7.550
San Jose	
TIEP	6.710
TIEP	13.415
TIGPH	5.820
TIP3	6.410
TIRC	6.550

San Ramon

TISHH	5.520
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CUBA (CLA-CMZ; COA-COZ)

Ca naguey

CO9JQ	8.665
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Havana

CMR3	5.780
CMPN	1.712
COCD	6.130
COCH	9.428
COCO	6.010
Sancti Spiritus	
CO9WR	11.800
Santiago	
CO9GC	6.150

DARIEN (J)

Darien

JDX	15.510
JDY	9.920
JDZ	5.710

DENMARK (OUA-OZZ)

Copenhagen

OXY	6.060
OXY	9.490
OXY	15.300

DOMINICAN REPUBLIC (HIA-HIZ)

San Pedro de Macoris

H1H	6.800
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SHORT WAVE STATIONS BY LOCATIONS

Santiago de los Caballeros HI-1-A 6.240	FRENCH INDO-CHINA (F) Saigon FZR 16.200 FZS 18.342 FZS2 11.990	Tela HRM 13.810	JVF 15.620 JVG 14.910 JVH 14.640 JVI 13.560 JVJ 12.270 JVK 12.020 JVL 11.660 JVM 10.740 JVN 10.660 JVO 10.375 JVP 7.510 JVQ 7.470 JVR 7.390 JVS 6.990 JVT 6.750 JVU 5.790 JVV 5.730 JZD 16.910 JZE 13.020 JZF 8.500 JZG 6.330	PCV 17.830 PDK 10.410 PDV 12.050	Pekalongan YDA7 3.270 YDJ2 3.270 Semarang YDB2 2.450 YDE3 2.910 YDK2 3.190 YDK3 2.910 YDK5 2.710 YDKS 1.860 Seekaboemi YDA4 1.550 YDI2 2.110 Solo YDB5 1.595 YDE2 4.810 YDL2 4.810 YDL3 3.450
Santo Domingo HII 10.040 HIL 6.518 HIX 5.980 HIZ 6.340 HIA4 6.500	GERMANY (D) Nauen DFA 19.240 DFB 17.520 DFC 12.980 DFD 14.665 DFE 9.810 DFL 10.850 DGG 6.675 DGU 9.609 DHO 20.020 DJK 12.035 Norden DAF 4.320 DAF 8.464 DAF 12.325 DAF 17.260	HONGKONG (Z) Honkong ZBW 8.750	KENYA (VQ7-) Nairobi VQ7LO 6.050	NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ) Borneo Bandjermasin YDUS 1.850 YDV2 3.330 Celebes Macassar PNI 8.775 Menado YBZ 7.680 Java Balikpapan YCP 8.575 Bandoeng PLE 18.830 PLF 17.850 PLG 15.950 PLK 14.480 PLM 12.290 PLP 11.000 PLQ 10.670 PLV 9.415 PMA 19.345 PMB 20.606 PMC 18.135 PMN 10.260 PMY 5.140 YDAS 6.120 YDD2 1.630 YDH3 3.490 YDH4 3.310 YDH6 3.130 YDH8 1.960	Sourabaya YBB 4.480 YDB7 1.530 YDE4 2.415 YDO2 3.430 YDO3 3.290 YDO4 3.170 YDO5 2.930 YDO6 2.770 YDO7 2.070 YDO8 1.980 YDO9 1.880 Tandjongpriok YDA 3.040 YDA 6.040 YDA8 1.510 Tegal YDJ3 2.870 Tjepoe YDB4 1.615 YDM2 3.320
ECUADOR (HCA-HCZ) Guayaquil HC2CW 8.625 HC2ET 4.600 HC2JSB 4.283 HC2RL 6.659 Quito HCJB 8.214 Riobamba PRADO 6.620 PRADO 15.440	EGYPT (STA-SUZ) Cairo SUV 10.055 SUZ 13.810 to 13.830 ERITREA Massawa IRG 14.740	HUNGARY (HAA-HAZ) Budapest HAS3 15.370 HAT 5.400 HAT2 7.220 HAT3 8.565 HAT4 9.125	MACAU Macau CQN 6.073	Batavia YDA2 2.385 YDD3 1.585 YDG2 3.470 YDG3 3.150 YDG4 2.850 YDGS 2.090 YDGS 1.900 YDG7 3.300	Sumatra Medan YBG 10.430 YDU2 4.710 YDU3 5.260 YDU4 2.830
ETHIOPIA Addis Ababa ETA 7.620 ETA 18.270 ETB 11.945	GUATEMALA (TGA-TGZ) Guatemala City TGF 14.545 TGWA 6.000 TGXA 6.130 TG1X 9.450 TG2X 5.940	ICELAND (TFA-TFZ) Reykjavik TFJ 12.225 TFK 9.050	MANCHUKUO (J) Shinkio JZA 15.680 JZB 10.960 JZC 5.830	MADAGASCAR (F) Tananarive 5.996	NEW ZEALAND (ZKA-ZMZ) Wellington ZLS 8.900 ZLT 11.050 ZLT2 7.390 ZLU 12.300
FIJI (VPA-VSZ) Suva VPD 13.075	HAITI Port au Prince HH2F 6.065 HH2R 9.550 HH2S 6.070 HH2T 11.790	INDIA (VTA-VWZ) Bombay VUB 9.565 Calcutta VUC 6.112 VUC 9.575 Kirkee VWY 8.975 VWY 17.480 VWZ 8.690 VWZ 8.693 VWZ 8.700 VWZ 8.708	MEXICO (XAA-XFZ) Guadalajara XEDQ 9.520	Batavia YDA2 2.385 YDD3 1.585 YDG2 3.470 YDG3 3.150 YDG4 2.850 YDGS 2.090 YDGS 1.900 YDG7 3.300	NICARAGUA (YNA-YNZ) Managua YNA 14.480
FRENCH POLYNESIA (F; TYA-TZZ) Pontoise TYA 12.215 TYB 12.250 9.585; 11.723; 11.880; 15.250; 15.454 Ste. Assise FQO 12.160 FTA 11.940 FTE 18.330 FTI 9.840 FTK 15.863 FTM 19.355 FTN 12.260 Villejust 6.145; 9.585; 11.845; 15.295; 17.765; 21.490	HAWAII (K) Honolulu KGPQ 1.712 Kahuku KEQ 6.733 KIO 11.680 KKH 7.520 KKP 16.030 KRO 5.845 5.845 7.520 11.630 16.030	ITALY (I) Coltano IAC 4.355 IAC 6.650 IAC 12.795 Fuimicino IAF 5.415 IAF 29.820 Golfo Aranci IAG 30.604 Rome IRA 6.070 IRE 11.810 IRF 8.070 IRM 9.823 IRO 9.780 IRW 19.520 I2RO 5.550 I2RO 5.725 I2RO 6.085 I2RO 6.980 I2RO 9.630	MEXICO CITY Mexico City XBJQ 11.000 XEBI 5.980 XEBT 6.000 XECR 7.380 Tiaguana XEOK 6.130 Veracruz XEFT 6.120 XEUV 6.020	Buitenzorg YDA3 1.640 YDH9 1.920 Cheribon YDA6 2.870 YDJ4 1.840 Djember YDQ2 3.390 Djocjarta YDB3 1.660 YDE5 2.350 YDL4 3.410 YDL5 3.210 YDL6 2.750 Garoet YDH5 3.250 Kediri YDN2 1.940 Madioen YDN3 2.790 Mageland YDK4 3.270 Malang YDB6 1.570 YDQ3 3.350 YDQ4 3.230 YDQ5 2.950 YDQ6 2.810	NORWAY (LAA-LNZ) Jeloy LCL 6.130 LCO 13.980 LKJ1 9.540
	JAPAN (J) Kemikawa-Che JYK 13.600 JYR 7.890 JYS 9.840 JYT 15.760 Nazaki JVA 18.910 JVB 18.190 JVC 16.050 JVD 15.860 JVE 15.660	MOROCCO (CNA-CNZ) Rabat CNR 8.035 CNR 12.82	NETHERLANDS (PAA-PIZ) Hilversum PCJ 15.220 PHI 11.725 PHI 17.775 Kootwijk PCK 18.400 PCM 18.600	Sumatra Medan YBG 10.430 YDU2 4.710 YDU3 5.260 YDU4 2.830	PANAMA (HPA-HPZ) Colon HP5H 6.070 Panama City HPC 10.290 HPF 14.545 HP5B 6.030 HP5J 9.590

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 KGPD 2.466 San Gabriel Dam	Miami NOM 2.670 WPFZ 2.442 W4XB 6.040
Asuncion ZP10 6.666 ZP11 3.800	SPAIN (EAA-EHZ)	Tiflis RIR 5.040 RIR 10.080	ARIZONA	KIIV 2.726 San Jose	Opa Locka WMEV 2.930 WMEV 6.615
PERU (OAA-OCZ)	Madrid EAQ 9.362	UNION OF SOUTH AFRICA (ZSA-ZUZ)	Phoenix KNGG 1.698 KNJZ 2.430	KGPM 2.466 San Pedro	Orlando WPHM 2.442 Palm Beach
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	ARKANSAS	NOJ 2.670 San Rafael	St. Petersburg NOF 2.670 WMEU 2.930 WMEU 6.615
PHILIPPINE ISLANDS (K)	Penang ZHJ 6.080 Singapore ZHI 6.060	Johannesburg ZTJ 6.100	Little Rock KGHZ 2.406	KLH 2.506 Santa Ana	WPFX 2.442 St. Petersburg NOF 2.670 WMEU 2.930 WMEU 6.615
Cebu KZGG 5.825 KZGG 8.940	SWITZERLAND (HBA-HBZ)	Walvis Bay ZSV 8.220 ZSV 12.500	CALIFORNIA	KGHX 2.430 Santa Barbara KBCA 3.385 KBCB 3.385 KGZO 2.414	Tampa WPHN 2.466
Ilelle KZGH 5.795 KZGH 9.490	Berne HB9AT 14.290 HB9B 14.236 HB9H 7.005 HB9J 14.400	UNITED KINGDOM (G; M.)	Bakersfield KGPS 2.414 Berkeley	Santa Cruz KGZT 1.683 Sequoia Park	GEORGIA
Manila KAX 19.980 KAY 14.980 KAZ 9.990 KBK 6.718 KTO 16.240 KTP 8.120 KZGF 5.765 KZGF 9.170	Geneva HBF 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797	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	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	Knights KNKS 2.604 KNKU 2.604 KNKX 2.604 Yreka KBCG 2.385	Atlanta WPDY 2.414 Augusta WQFV 2.414 Columbus WPFJ 2.414 La Grange WPGM 2.414 Macon WQFB 2.414
TAIWAN (J)	Taihoku JIA 15.750 JIB 10.530 JIC 5.890	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 G6RX 4.320	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 KWX 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 KBCE 3.445 KBCE 3.445 KBCE 3.445 Oakland KBCH 3.385 Palo Alto KGHK 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 KGZD 2.490	Yosemite KNKS 2.604 KNKU 2.604 KNKX 2.604 Yreka KBCG 2.385	IDAHO
POLAND (SOA-SRZ)	UNION OF SOCIALIST SOVIET REPUBLICS (R; U)	ALABAMA	COLORADO	Denver KGPX 2.442	Boise KBCQ 3.300 Idaho Falls KNFB 2.458
Poznan SR1 9.490	Baku RIO 10.160 Irkutsk RSZ 8.770 RTZ 7.275 Khabarovsk RV15 4.273 Kharkov RFF 7.260 Moscow RKF 4.875 RKF 6.870 RKF 6.880 RKF 6.900 RKF 9.750 RKF 12.500 RKI 7.520 RKI 15.040 RKI 15.090 RKK 6.135 RKK 12.270 RNE 12.000 RPK 7.225 RRD 8.225 RV59 5.996 Novosibirsk RTA 6.440 Stalinsk RSB 5.375 Sverdlovsk ROI 5.490 RSN 5.440	Birmingham WPFM 2.382 Maxwell Field PD1 6.445	Denver KGPX 2.442	Yosemite KNKS 2.604 KNKU 2.604 KNKX 2.604 Yreka KBCG 2.385	Chicago WPDB 1.712 WPDC 1.712 WPDD 1.712 W9XAA 6.080 W9XAA 11.830 W9XAA 17.780 Highland Park WPFD 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
WARSAW SPW 13.630	PORTUGAL (CSA-CUZ)	CONNECTICUT	Bridgeport WPFV 2.466 New Haven WQFA 2.466 New London NOU 2.670	DISTRICT OF COLUMBIA	ILLINOIS
Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223	Lisbon Parede CT1GO 6.132	Washington WPDW 2.422	FLORIDA	Washington WPDW 2.422	INDIANA
PUERTO RICO	San Juan WMDU 3.070 WMDU 5.405	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 WPFJ 2.442	FLORIDA	Washington WPDW 2.422	Columbia City WQFW 1.634 Culver WPHS 1.634 Fort Wayne WPDZ 2.490 Huntington WAKA 2.490 Indianapolis WMDZ 2.442 1.634 Jasper WPHU 1.634 Kokomo WPDT 2.490
SIAM (HSA-HSZ)	Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730	SOUTHERN RHODESIA (ZE-)	CONNECTICUT	Washington WPDW 2.422	INDIANA
Bulawayo ZEB 6.590	SOUTHERN RHODESIA (ZE-)	CONNECTICUT	Washington WPDW 2.422	Washington WPDW 2.422	INDIANA

SHORT WAVE STATIONS BY LOCATIONS

Lafayette	Beltsville	Manitou Island	Hackensack	Rochester	OHIO
WFFQ 2.442	WWV 5.000	WWAJ 3.410	WPFK 2.430	WPDR 2.422	Akron
Marion County	WWV 10.000	Marquette	Lawrenceville	Rockaway Point	WPDO 2.458
WPHE 1.634	WWV 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	WKF 19.220	WAD 8.930	Cincinnati
Richmond		Passage Island	WKK 21.410	WAJ 13.480	WKDU 1.706
WPDH 2.442		WWAL 3.410	WKN 19.820	WBU 21.260	W8XAL 6.060
Seymour	Arlington	Poe Reef	WLA 18.350	WDB 6.718	Cleveland
WQFE 1.634	WPEJ 1.712	WRJ 3.410	WLK 16.270	WDG 4.535	NMD 2.670
South Bend	Boston	Port Huron	WMA 13.390	WDN 4.550	NMD 2.698
WPGN 2.490	WEY 1.630	WPGB 2.466	WMF 14.470	WDS 18.900	WRBH 2.458
IOWA	WPGV 1.712	Rock of Ages	WMN 14.590	WEA 10.610	Columbus
Atlantic	W1XAL 6.040	WWM 3.410	WNA 9.170	WEB 6.935	WPDJ 2.430
KACD 1.682	W1XAL 11.790	Saginaw	WNB 10.675	WEC 8.930	WPGQ 1.596
Cedar Rapids	W1XAL 15.250	WPES 2.442	WOA 6.755	WEL 8.950	Dayton
KGOZ 2.466	W1XAL 21.460	Sault Ste. Marie	WOB 5.850	WEL 13.435	WPDJ 2.430
Davenport	W1XH 2.110	NOR 2.670	WOF 9.750	WEM 7.400	WPGG 1.596
KGPN 2.466	Brookline	NOR 2.698	WOK 10.550	WES 9.448	Lancaster
Des Moines	WPEJ 1.712	Selfridge Field	WON 9.870	WET 9.470	WQFO 2.430
KGHO 1.682	Fairhaven	VK1 6.425	WOY 4.178	WEZ 6.928	Lorain
KGZG 2.466	WPFN 1.712	Stannard Rock	WOY 4.753	WIR 4.276	WMES 2.550
Fairfield	Fitchburg	WWH 3.410	WOY 8.560	WII 13.870	Massillon
KACC 1.682	WPHA 2.466	MINNESOTA	WOY 12.840	WJN 7.370	WPHC 1.596
Sioux City	Frammingham	Duluth	WOY 17.120	WKC 10.465	Portsmouth
KGPK 2.466	WMP 1.666	KNFE 2.382	New Brunswick	WKL 8.940	WPGI 2.430
Storm Lake	Gloucester	Minneapolis	WKJ 9.460	WKM 18.860	WPHD 2.458
KNFO 1.682	NOG 2.670	KGPB 2.430	Ocean Gate	WKO 15.970	Suffield
KNFN 1.682	Marshfield	Redwood Falls	WOG 4.253	WKP 6.950	WMEP 2.930
KANSAS	WOU 2.506	KNHD 1.658	WOO 4.178	WKU 14.830	WMEP 6.615
Chanute	Medford	St. Paul	WOO 4.753	WKL 15.445	Toledo
KGZF 2.450	WPHG 1.712	WPDS 2.430	WOO 8.560	WLL 17.900	WRDQ 2.474
Coffeyville	Millis	MISSOURI	WOO 12.840	WPE 13.840	Wilmington
KGZP 2.450	W1XK 9.570	Duluth	WOO 17.120	WQB 17.940	WPHK 1.596
Dodge City	Newton	KNFE 2.382	Passaic	WQC 17.860	Wright Field
KNGH 2.474	WPFA 1.712	Minneapolis	WPDJ 2.414	WQE 18.920	PE2 6.445
Garden City	Northampton	KGPE 2.422	Tuckerton	WQF 17.920	Youngstown
KNFH 2.474	WPEM 1.666	Napoleon	WCG 10.370	WQG 15.040	WPDG 2.458
Hutchinson	WPEH 1.712	St. Louis	Wayne	WQH 18.880	WPHO 2.430
KGHN 2.450	W. Bridgewater	KGPC 1.706	W2XE 6.120	WQI 17.880	OKLAHOMA
Leavenworth	WPEL 1.666	MONTANA	W2XE 11.830	WQL 14.815	Chickasha
KNFF 2.422	Winthrop	Glacier Nat'l Park	W2XE 15.270	WQN 5.263	KACF 2.450
W9XAK 2.050	NMF 2.670	KNIA 2.604	NEW MEXICO	WQN 5.505	Duncan
Topeka	Woods Hole	NEBRASKA	Albuquerque	WQN 5.825	KNGK 2.450
KGZC 2.422	NOP 2.670	Lincoln	KGZK 2.414	WQO 6.725	Lawton
Wichita	Worcester	KGZU 2.490	Clovis	WQR 16.015	KGHP 2.466
W9XAK 2.050	WPGX 2.466	NEVADA	KNFA 2.414	WQS 13.915	Muskogee
KENTUCKY	MICHIGAN	Reno	Santa Fe	WQU 13.855	KNGT 2.450
Lexington	Bay City	KGHM 2.474	KGPF 2.414	WQV 14.800	Oklahoma City
WPET 1.706	WPGA 2.466	NEW HAMPSHIRE	NEW YORK	WQW 10.600	KGPH 2.450
Louisville	Cheboygan	Nashua	Albany	WQY 20.100	KGPO 2.450
WPDE 2.442	Range	WPHB 2.422	WPGH 2.414	WTT 18.940	OREGON
LOUISIANA	Detroit	NEW JERSEY	Auburn	Schenectady	Hood River
Baton Rouge	WCK 2.414	Bound Brook	WPDN 2.382	W2XAD 15.330	KIJY 2.728
WPEQ 1.570	WKDT 1.630	W3XAL 6.100	Binghamton	W2XAF 9.530	Klamath Falls
New Orleans	WPDX 2.414	W3XL 17.780	WPGJ 2.442	S. Schenectady	KGZH 2.442
WPEK 2.430	WPN 3.410	W3XL 6.425	Bronx	WPGC 1.658	Portland
Shreveport	WWR 3.410	W3XL 17.310	WPEF 2.450	St. George	KGPP 2.442
KGPY 1.574	E. Lansing	NEW YORK	Brooklyn	WOX 2.590	Salem
KGZL 1.712	WRDS 1.642	Albany	WPEE 2.450	Syracuse	KGZR 2.442
KNGP 2.430	Flint	Buffalo	NOB 2.670	WPEA 2.382	PENN- SYLVANIA
MAINE	WPDF 2.442	NOB 2.698	WMJ 2.422	Utica	Harrisburg
Portland	Fourteen Foot	WPMJ 2.422	Huntington	WPGJ 2.414	WPSP 1.674
WPFH 2.422	Shoals	WPGO 2.490	Mineola	Yonkers	New Castle
MARYLAND	WWE 3.410	Mitchell Field	WPGS 2.490	WPFY 2.442	WPGT 2.482
Baltimore	Grand Rapids	WO9 6.385	Mineola	NORTH CAROLINA	Oil City
WPFH 2.414	WPEB 2.442	NEW YORK	WPGO 2.490	Asheville	WPHZ 2.482
Lansing	Grosse Pointe	New York	Mineola	WPSF 2.458	Philadelphia
WPDJ 2.430	WRDR 2.414	WOZ 3.423	Mitchell Field	WPSF 2.474	WPDJ 2.474
Lansing	Highland Park	WPEG 2.450	WO9 6.385	Charlotte	
WPDJ 2.430	WMO 2.414	Niagara Falls	NEW YORK	WPDV 2.458	
Lansing	Huron Island	WNFP 2.422	New York	NORTH DAKOTA	
WPDJ 2.430	WWAO 3.410	Oneonta	WOZ 3.423	Fargo	
Lansing	Jackson	WQFJ 2.414	WPEG 2.450	KNHM 2.442	
WPDJ 2.430	WPHP 2.466		Niagara Falls		
Lansing	Lansing		WQFJ 2.414		
WPDJ 2.430	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 W3XX 21.540 Reading WPFE 2.442 Swarthmore WPFO 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 WPRO 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 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 IS3 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 KGHQ 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 KGVC 3.387 KFYD 3.387 KGYP 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 W7XK 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 WGYE 3.387 Yakima KNGB 2.490 KNGU 2.414 WEST VIRGINIA Charleston WPHI 2.490 Clarksburg WPFJ 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 YV9RC 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 CEC 7.740 CEC 8.710 CEC 10.670 CEC 15.860 CEC 19.680 CFA2 4.465 CFC 1.596 CFC 1.668 CFD 1.620 CFD 5.660 CFJ 1.620 CFJ 5.660 CFL 1.620 CFM 1.620 CFQ 3.040 CFQ 7.550 CFT 2.284 CFU 4.755 CFU 5.668 CFU 6.720 CFU 13.200 CFV 2.290 CFW 2.290	CFX 2.284 CGA 18.180 CGA2 13.745 CGA4 9.332 CGA6 6.690 CGA7 6.880 CGA9 4.348 CGD 3.340 CGE 3.040 CGE 7.550 CGM 3.152 CGM 3.340 CGO 4.506 CGP 3.268 CGP 5.405 CGQ 1.596 CGQ 1.668 CGT 4.865 CGV 1.596 CGV 1.668 CGY 3.152 CGZ 2.452 CJA3 17.710 CJA6 6.760 CJD 1.510 CJD 1.540 CJE 2.290	CJK 1.510 CJM 1.510 CJRO 6.150 CJRX 11.720 CJU 3.070 CJU 3.452 CJW 2.416 CJX 2.290 CJZ 2.452 CKB 2.284 CKO 2.234 CKP 2.234 CKS 3.040 CKS 7.550 CKU 2.234 CMB 5.780 CNR 8.035 CNR 12.820 COCD 6.130 COCH 9.428 COCO 6.100 COCG 6.010 CO9JC 8.355 CO9JQ 8.355 CO9WR 11.930 CP5 6.030 CP6 9.120 CP7 15.300	CQN 6.073 CRCX 6.090 CR5AA 7.175 CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1GO 6.132 CT2AJ 4.000 CWD 5.830 CWE 6.610 CWF 8.455 CWG 11.370 CWH 13.140 CZA 2.930 CZA 4.785 CZA 17.310 CZB 1.620 CZG 1.712 CZG 2.416 CZG 6.425 CZJ 1.596 CZJ 1.668 CZL 2.230 CZO 4.505 CZP 4.505 CZQ 4.505	CZV 3.300 CZV 4.810 CZY 1.920 CZZ 1.620 DAF 4.320 DAF 8.464 DAF 12.325 DAF 12.745 DAF 17.260 DD3R 4.413 DDBR 8.830 DDBR 13.040 DDCP 4.413 DDCP 8.830 DDCP 13.340 DDFF 4.413 DDFF 8.830 DDHTY 13.040 DDHTY 13.040 DDHTY 16.765 DIQ 10.285 DJA 9.560 DJB 15.200 DJC 6.020 DJD 11.770 DJE 17.760 DJG 4.580 DJK 12.035 DJM 6.030	DHDL 4.413 DHDL 8.830 DHDL 13.040 DHEY 4.413 DHEY 8.830 DHEY 13.040 DHEY 16.460 DHJZ 4.413 DHJZ 8.830 DHJZ 13.040 DHO 20.020 DHRL 4.413 DHRL 8.830 DHRL 13.040 DHTY 4.413 DHTY 8.830 DHTY 13.040 DHTY 16.765 DJA 9.560 DJB 15.200 DJC 6.020 DJD 11.770 DJE 17.760 DJG 4.580 DJK 12.035 DJM 6.030	DJN 9.540 DJO 11.790 DJQ 15.280 DJR 15.340 DOAH 4.413 DOAH 8.830 DOAH 13.040 DOAI 4.413 DOAI 8.830 DOAI 13.040 DOAI 16.600 EAQ 9.862 FG7 6.645 FNSK 4.390 FNSK 4.410 FNSK 8.810 FNSK 8.830 FNSK 13.190 FNSK 13.210 FNSM 4.413 FNSM 8.830 FNSM 13.395 FTA 11.840 FTE 18.330 FTK 15.863 FTM 19.355 FTN 12.260
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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	H1A	6.185	JVL	11.660	KGHV	2.382	KIED	1.622	KNDT	3.387	KZGG	5.825
FTNQ	13.395	H14D	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	KIEO	2.150	KNED	2.102	KZGH	9.490
FZS2	11.990	HJA3	8.790	JVP	7.510	KGHZ	2.406	KIFI	1.622	KNEF	2.830	LCL	6.130
GAA	20.368	HJA3	12.830	JVQ	7.470	KGI	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	KLJ1	9.540
GAS	18.304	HJB	14.930	JVS	6.990	KGM	2.512	KIGA	1.606	KNFE	2.382	LQA	9.600
GAU	18.620	HJN	6.080	JVT	6.750	KGOZ	2.466	KIGA	2.102	KNFF	2.422	LSF	19.600
GAW	18.200	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	HJ1ABB	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	8.680	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	HJ1ABH	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	HJ3ABD	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	KIIP	2.150	KNFZ	2.490	NMG	2.670	
GBZW	8.830	HJ4ABC	6.230	KACF	2.450	KGPPQ	1.712	KIIV	2.726	KNGA	2.490	NMN	2.670
GBZW	13.320	HJ4ABE	5.900	KAEB	2.616	KGPR	1.712	KIIX	2.726	KNGB	2.490	NMP	2.670
GCA	9.710	HJ4ABL	6.100	KAEB	3.265	KGPS	2.414	KIIX	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
GCC	13.415	HJ5ABE	14.000	KAED	3.093	KGPP	2.442	KIJI	1.622	KNGE	1.712	NMW	2.670
GCS	9.020	HKE	7.090	KAEF	2.616	KGPY	1.574	KIJK	1.622	KNGF	2.422	NMY	2.670
GCU	9.950	HPC	10.290	KAEF	2.994	KGpz	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	HP5B	6.030	KAY	14.980	KGX	2.632	KIJR	2.986	KNGJ	2.490	NOF	2.670
GDB	6.790	HP5J	9.590	KAZ	9.990	KGXU	1.622	KIJS	1.622	KNKG	2.450	NOG	2.670
GDJL	4.430	HRM	13.810	KBA	3.385	KGXW	1.606	KIJU	2.986	KNGL	1.712	NOJ	2.670
GDJL	13.320	HSJ	8.020	KBAD	3.410	KGYA	3.387	KIJV	1.622	KNGM	2.450	NOM	2.670
GDS	6.095	HSP	7.968	KBAI	2.304	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	KNGQ	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	KGYI	3.387	KILU	1.622	KNGZ	2.490	OAX4D	5.780
GSD	11.750	IAC	17.770	KBCD	3.445	KGZA	2.414	KILU	2.150	KNHB	2.382	OAX4G	6.230
GSE	11.860	IAC	5.415	KBCE	3.445	KGZB	1.712	KILY	2.994	KNHD	1.658	OCI	18.670
GSF	15.140	IAC	29.820	KBCF	3.445	KGZC	2.422	KIMA	2.632	KNHF	1.712	OER2	6.072
GSG	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	KBCH	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	ORG	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	KIUK	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	I2RO	5.550	KEJ	9.010	KGZP	2.450	KKH	7.520	KNLS	3.387	PDK	10.410
HBF	18.950	I2RO	5.725	KEL	6.860	KGZQ	1.712	KKL	15.475	KNLT	3.387	PDK	12.050
HBH	18.450	I2RO	6.085	KEQ	6.733	KGZR	2.442	KKP	16.030	KNLU	3.387	PD1	6.445
HBH	14.535	I2RO	6.980	KES	9.480	KGZT	1.674	KKQ	11.950	KNLV	3.387	PE2	6.445
HBL	9.595	I2RO	9.630	KEZ	10.400	KGZU	2.490	KKW	13.780	KNLX	3.387	PHI	11.725
HBP	7.797	JDX	15.510	KFF	2.566	KGZV	2.414	KKZ	13.690	KOU	2.566	PHI	17.775
HBO	12.030	JDY	9.920	KGHA	2.490	KGZW	2.458	KLA	2.566	KOW	5.222	PLE	18.830
HB9AT	14.290	JDZ	5.710	KGHB	2.490	KGZY	2.414	KLK	2.512	KQJ	18.020	PLF	17.850
HB9B	14.236	JIA	15.750	KGHC	2.490	KGZX	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
HCJB	8.214	JVA	18.910	KGHG	2.474	KHW	2.912	KLGG	2.738	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	KIAW	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	PMY	5.140
HC2RL	6.659	JVF	15.620	KGHP	2.466	KIBA	3.093	KNDI	3.387	KWU	15.355	PNI	8.775
HIH	6.800	JVG	14.910	KGHQ	2.490	KIBZ	3.265	KNDK	3.387	KWV	10.840	PPQ	11.670
HIH	10.040	JVH	14.640	KGHR	2.490	KICE	3.265	KNDL	3.387	KWX	7.610	PPU	19.270
HIL	6.518	JVI	13.560	KGHS	2.458	KICG	3.265	KNDM	3.387	KWY	7.565	PRADO	6.620
HIX	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	YDG3	3.150
PSD	15.070	VQJM	4.430	WKK	21.410	WPDS	2.430	WPHM	2.442	W1XK	9.570	YDG4	2.850
PSF	14.690	VQJM	8.830	WKL	8.940	WPDT	2.490	WPHN	2.466	W2XAD	15.330	YDG5	2.090
PSH	10.220	VQJP	4.430	WKM	18.860	WPDU	1.712	WPHO	2.430	W2XAF	9.530	YDG6	1.900
PSK	8.180	VQJQ	8.830	WKN	19.820	WPDV	2.458	WPHP	2.466	W2XBJ	4.550	YDG7	3.300
RAU	15.104	VQ7LO	6.060	WKO	15.970	WPDW	2.422	WPHQ	2.490	W2XBJ	10.370	YDH3	3.490
RAU	7.260	VUB	9.565	WKP	6.950	WPDX	2.414	WPHS	1.634	W2XBJ	13.900	YDH4	3.110
RIM	7.626	VUC	6.112	WKU	14.830	WPDY	2.414	WPHU	1.634	W2XBJ	17.940	YDH5	3.250
RIO	10.160	VUC	9.575	WKW	15.445	WPDZ	2.490	WPHY	2.474	W2XE	6.120	YDH6	3.130
RIR	5.040	VWY	8.975	WLA	18.350	WPEA	2.382	WPHZ	2.482	W2XE	11.830	YDH7	1.960
RIR	10.080	VWY	17.480	WLEB	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	YD12	2.110
RKF	6.870	VWZ	8.693	WLK	16.270	WPED	1.712	WQC	17.860	W3XAL	17.780	YD13	3.270
RKF	6.880	VWZ	8.700	WLL	17.900	WPEE	2.450	WQE	18.920	W3XAU	6.060	YD13	2.870
RKF	6.900	VWZ	8.708	WMA	13.390	WPEF	2.450	WQF	17.920	W3XAU	9.590	YD14	1.840
RKF	9.750	VXU	5.540	WMDU	3.070	WPEG	2.450	WQFA	2.466	W3XL	6.425	YDK2	3.190
RKF	12.500	VXV	5.540	WMDU	5.405	WPEH	1.712	WQFB	2.414	W3XL	17.310	YDK3	2.910
RKI	7.520	VXW	5.540	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	WQFG	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	2.414	W8XK	9.570	YDL4	3.410
ROI	5.490	VYZ	2.212	WMEP	6.615	WPEQ	1.570	WQFK	2.466	W8XK	11.870	YDL5	3.210
RPK	7.225	WAD	8.930	WMEQ	6.615	WPES	2.442	WQFL	2.442	W8XK	15.210	YDL6	2.750
RPT	5.995	WAKA	2.490	WMEs	2.550	WPET	1.706	WQFM	2.442	W8XK	17.780	YDM2	3.320
RRD	8.225	WAW	12.930	WMEU	2.930	WPEV	1.666	WQFO	2.430	W8XK	21.540	YDN2	1.940
RSB	5.375	WCG	10.370	WMEU	6.615	WPEW	1.666	WQFQ	2.442	W9XAA	6.080	YDN3	2.790
RSN	5.440	WCK	2.414	WMEV	2.930	WPEF	1.712	WQFV	2.414	W9XAA	11.830	YD02	3.430
RSZ	8.770	WDB	6.718	WMEV	6.615	WPFC	2.442	WQFW	1.634	W9XAA	17.780	YD03	3.290
RTA	6.440	WDDQ	2.738	WMF	14.470	WPFD	2.430	WQFZ	2.458	W9XAK	2.050	YD04	3.180
RTZ	7.275	WDFL	2.738	WMJ	2.422	WPFE	2.442	WQG	15.040	W9XBS	6.425	YD05	2.930
RV15	4.273	WDG	4.535	WMN	14.590	WPFQ	2.442	WQH	18.880	W9XBU	1.634	YD06	2.770
RV59	5.996	WDN	4.550	WMO	2.414	WPFH	2.414	WQI	17.880	W9XF	6.100	YD07	2.070
SPW	13.630	WDS	18.900	WMP	1.666	WPGI	2.414	WQL	14.815	W9XF	6.425	YD08	1.980
SRI	9.490	WEA	10.610	WNA	9.170	WPKF	2.430	WQN	5.263	W9XQ	6.425	YD09	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
TFFK	9.050	WEL	8.950	WND	4.098	WFFO	2.474	WQO	6.725	XEBT	6.000	YDQ4	3.230
TGF	14.545	WEL	13.435	WNEI	1.622	WFFP	2.490	WQP	13.900	XECR	7.380	YDQ5	2.950
TGWA	6.000	WEM	7.400	WNEI	2.150	WFFQ	2.474	WQR	16.015	XEDQ	9.520	YDQ6	2.810
TGXA	6.130	WES	9.448	WNER	2.060	WFFS	2.458	WQS	13.915	XEFT	6.120	YDU2	4.710
TG1X	9.450	WET	9.470	WNFJ	2.538	WFFS	2.474	WQU	13.855	XEOK	6.130	YDU3	5.260
TG2X	5.940	WEY	1.630	WNFJ	2.986	WFFT	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	8.580	WPFW	2.466	WRBQ	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	YNI1G	6.450
TIPG	6.550	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	6.550	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	11.990	YVR	18.296
VAC	1.510	WIEL	1.646	WOO	8.560	WPGD	2.458	WTDW	4.295	XGOX	17.800	YV2RC	6.112
VAE	1.510	WIEL	2.190	WOO	12.840	WPGF	1.712	WTDX	4.295	XGW	10.420	YV3RC	6.150
VBQ	2.350	WIEO	1.606	WOO	17.120	WPGG	1.596	WTR	6.385	YBG	10.430	YV3RC	9.510
VBY	1.540	WIEO	2.020	WOU	2.506	WPGH	2.414	WTT	18.940	YBZ	7.680	YV4RC	6.375
VBY	1.650	WIEO	2.102	WOX	2.590	WPGI	2.430	WVD	2.604	YCP	8.575	YV5RMO5	8.500
VE9AS	6.425	WIEO	2.760	WOY	4.178	WPGJ	2.414	WVD	5.995	YDA	3.040	YV6RV	6.520
VE9BJ	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	WPGL	2.442	WWAD	4.988	YDA2	2.385	ZBW	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	WIF	2.738	WQDA	2.414	WPGQ	1.596	WWE	3.410	YDA7	3.270	ZFD	10.335
VE9EH	6.080	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	WWH	3.410	YDB	4.470	ZFS	4.512
VFJ	2.290	WJER	1.606	WPDD	1.712	WPGV	1.712	WWHJ	3.410	YDB2	2.450	ZGE	6.125
VIZ3	11.495	WJER	2.102	WPDE	2.442	WPGW	2.382	WWW	3.410	YDB3	1.660	ZHI	6.060
VKL	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	WWZ	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	9.503	WKDL	5.405	WPDJ	2.414	WPHC	1.596	WXH	2.604	YDD2	1.630	ZSS	19.890
VLJ	9.750	WKDT	1.630	WPKD	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	ZSV	12.500
VLK	10.520	WKEM	1.622	WPDN	2.430	WPHF	2.450	W1XAL	6.040	YDE3	2.910	ZTJ	6.123
VLZ	7.960	WKEM	2.150	WPDN	2.382	WPHG	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 Brdcastg. Co., Ltd. — (11/35)

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, 101 DeMun St.
KFYR	ae	1000	N (5)	Bismarck, N. D., Meyer Brdcastg. Co., 320 Broadway
KOAC	ak	1000	...	Corvallis, Ore., State Agricultural College
KSD	ak	1000	2R	St. Louis, Mo., St. Louis Post-Dispatch — (10/35)
KISA	ak	1000	C (5)	San Antonio, Texas, Southwest Brdcastg. Co., Plaza Hotel
WDEV	ae	500	D	Waterbury, Vt., Harry C. Whitehill, Stowe St.
WGR	ck	1000	C	Buffalo, N. Y., Buffalo Brdcastg. Corp., Rand Bldg.
WKRC	ak	1000	C	Cincinnati, Ohio, WKRC Inc., Hotel Alms
WS/A	ak	500	D	Harrisonburg, Va., Marion Gilliam, Main & Market Sts.

560 kilocycles (535.4)

KFDM	ak	500	(1)	Beaumont, Texas, Sabine Brdcastg. Co., Box 2950
KLZ	ae	1000	C	Denver, Colo., Reynolds Radio Co., Shirley-Savoy Hotel
KSO	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 Brdcastg. 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 — (11)
WQAM	ae	1000	C	Miami, Fla., Miami Brdcastg. 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 Brdcastg. Co., 9th & Indiana
KMTR	ak	1000	...	Hollywood, Calif., KMTR Radio Corp., 915 N. Formosa Ave.
KVI	ak	1000	C	Tacoma, Wash., Puget Sound Brdcastg. Co., Rust Bldg.
WKBN	ae	500	1C	Youngstown, Ohio, WKBN Brdcastg. Corp., 17 N. Champion St.
WMCA	ak	500	...	New York, N. Y., Knickerbocker brdcastg. Co., 1697 Broadway
WNAX	ak	1000	C (5)	Yankton, S. D., WNAX Brdcastg. Co., 2nd and Capitol — (1/36)
WOSU	ak	750	1 (1)	Columbus, Ohio, Ohio State University
WSIR	ak	250	BX	Syracuse, N. Y., 315 Starret-Syracuse Bldg., Central N. Y. Brdcastg. Corp.
WWNC	ak	1000	N	Asheville, N. C., Citizen Brdcastg. 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
CKGL	ae	100	F	Toronto, Ont., Dominion Battery Co., 444 University
CKUA	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., State College of Agriculture
WCHS	ak	500	(1)	Charleston, W. Va., WOBV, Inc., Ruffner Hotel
WDBO	ae	1000	C	Orlando, Fla., Orlando Brdcastg. Co., Box 1097
WIBW	ak	1000	C2 (5)	Topeka, Kans., 11th and Topeka Blvd.
WIAG	ae	500	R	Worcester, Mass., Worcester Telegram, 18 Franklin St.

590 kilocycles (508.2)

KHO	ak	1000	N (2.5)	Spokane, Wash., Louis Wasmer, Inc., Sprague & Post
WZEL	ak	1000	R	Boston, Mass., Edison Electric Co., 182 Tremont
WKZO	ae	1000	D	Kalamazoo, Mich., John Fetzer, Burdick Hotel
WOW	ae	1000	R (5)	Omaha, Neb., Woodmen of the World, 4th & Farnam
XEPN	ak	5000	...	Piedras Negras, Coah., Piedras Negras Brdcastg. 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. Co., 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
WCAC	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 (3 1/2)
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
XFX	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— (9/3 1/2)
WHJB	ak	250	D	Greensburg, Pa., Pittsburgh Radio Supply, 128 Pa. Ave.
WLBZ	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. ^{Richmond's}
KCOV	ak	100	F	Kelowna, B. C., Okanagan Broadcasters, Box 243 _{Sons — (1/3 1/2)}
KFRU	ak	500	1 (1)	Columbia, Mo., KFRU Inc., 9th & Elm Sts.
KGFX	ak	200	D	Pierre, S. D., Dana McNeil, Box 573
WGBF	ak	500	1	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 C. 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. ^{1st. Co.} _{Av. 1, 2, 3, 4}

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)

WMAQ	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. — (4, 3 1/2)
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.
CJCL	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 500000 N Cincinnati, Ohio, Crosley Radio Corp., 1329 Arlington St.

710 kilocycles (422.3)

KIRO ae 500 Seattle, Wash., Tower Bldg., *Queen City Broadcasting Co.*
 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., Cervceria 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 11e, 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. *(434, 3/35)*
 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. *(1/36)*
 KFDY ae 1000 D Brookings, S. D., S. Dak. State College, Box L
 KFOD 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. *Evening Herald Pub. Co.*
 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 — (10/35)
WFAA	ak	50000	Na	Dallas, Tex., A. H. Belo Corp., Baker Hotel — (1/36)
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.
WEEU	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)

CFOC	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
VOGY	ak	400	....	St. John's, Nfld., Newfoundland Hotel; Newfoundland Brdcstg. Co.
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 — (1/36)
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. — (10/35)
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
CRKO	ak	1000	F	Ottawa, Ont., C. R. B. C., Chateau Laurier Hotel
KFKA	ak	500	2 (1)	Greeley, Colo., Mid-Western Radio Corp., Box 735
KLX	ae	1000	....	Oakland, Calif., Tribune Tower, Tribune Building Co.
KPOF	ae	500	2	Denver, Colo., Pillar of Fire, 1845 Champa St.
WCOC	ae	500	(1)	Meridian, Miss., Miss. Brdcstg. Co., Box 603
WGBI	ae	500	1	Scranton, Pa., Scranton Brdcsters, Inc., 1000 Wyoming Ave.
WPHR	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.—(5/35)
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
WELI	z	500	D	New Haven, Conn., Patrick J. Goode
WFMD	ah	500	DP	Frederick, Md., Francis Scott Key Hotel; <i>one way Brdcastg. Co.</i>
WJAX	ae	1000	N (5)	Jacksonville, Fla., City of Jacksonville
WKY	ae	1000	N	Oklahoma City, Okla., WKY Radiophone Co., Plaza Court Bldg.—(1)
WLBL	ak	2500	D	Stevens Point, Wis., State of Wisc., Fox Theater Bldg.—(12/35)
WTAD	ak	500	D	Quincy, Ill., Ill. Brdcastg. Corp., State & 6th.

910 kilocycles (329.6)

CJAT	ak	250	F	Trail, B. C., Kootenay Brdcastg. Co., Box 1959 — (3/35)
CRGM	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, Fransisco Lavin, Calle Obrapia y Oficios
HHK	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.
WAAF	ak	1000	D	Chicago, Ill., Drivers Journal Pub. Co., Palmer House
WBOS	ae	500	D	Babson Park, Mass., Brdcastg. Serv. Org., Inc., Drawer B
WPEN	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.
WWJ	ak	1000	R (5)	Troit, Mich., Evening News Assn., 616 Lafayette Blvd.
XEAA	ak	200	....	Mexicali, L. C., P. O. Box 714, Calexico, Calif.

930 kilocycles (322.4)

CFAC	ak	100	F	Calgary, Alta., T. P. & C. Brdcastg. Co., Southam Bldg.—(6/34)
CFCH	ak	100	F	North Bay, Ont., Roy H. Thomson, Capitol Theatre Bldg.—(11/35)
CFLC	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.—(7/34)
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
TIRH	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.
WAAT	ae	500	D	Jersey City, N. J., Bremer Brdcastg. Corp., 50 Journal Sq.
WAVE	bk	1000	N	Louisville, Ky., WAVE, Inc., 1525 Brown Hotel
WCSS	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 Wisc., Radio Hall
XEFO	ak	5000	(XFO)	Mexico City, D. F., Reforma No. 137

950 kilocycles (315.6)

CRCS	ak	100	F	Chicoutimi, Que., C. R. B. C., 4 Rue Larouche — (?)
KFWB	ak	1000	(5)	Hollywood, Calif., Wanner 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., Cia. Int. Difusora Reynosa, Aptdo. 6

970 kilocycles (309.1)

KJR ak 5000 N Seattle, Wash., Fishers Blend 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. — (9/35)

980 kilocycles (303.9)

KDKA ae 50000 B Pittsburgh, Pa., Westinghouse Elec. Co., Grant Bldg.

990 kilocycles (302.8)

WBZ ak 50000 BSty Boston, Mass., Westinghouse Elec. Co., Hotel Bradford
 WBZA ak 1000 BSty 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
 GKWX 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.; Pacific Agricultural Foundation - t.d.
 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., Fernando 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)

CMKD 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	ae	10000	N	Hot Springs, Ark., Chamber of Commerce, Box 86
VOAC	z	40	1065	St. Joh's, Nfld., Amer. Radio News Corp., Lexington Bldg. — (6/34, 37)
WBAL	ak	10000	B	Baltimore, Md., Norfolk Daily News
WJAG	ak	1000	D	Norfolk, Neb., Edificio Asad., Pedro Loza 28
XEA	ak	500	....	Guadalajara, Jal., Alberto Palos Souza, 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 — (9/34)
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. Peffer, 42 S. California St.
KWKH	ae	10000	C	Shreveport, La., Times Pub. Co., Spring & Fannin Sts. — (9/35)
WLWL	ae	5000	I	New York, N. Y., 415 W. 59th St.; Universal Broadcasting Corp.
WPG	ak	5000	1C	Atlantic City, N. J., City of Atlantic City, Convention Hall — (9/35)
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
KSOO	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 — (9/34)
CKOC	ae	500	F (1)	Hamilton, Ont., Wentworth Brdcastg. Co., Wentworth Bldg
CKX	ak	100	F	Brandon, Man., Man. Tele. System, City Hall Square
CMGF	dk	100	....	Matanzas, Cuba, Calle Gnrl. Betancourt No. 51
CMKM	ak	200	....	Manzanillo, Cuba, Merchan P. Figaredo, 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.
KRKD	aj	500	a (1)	Los Angeles, Calif., Radio Brdcasters, Inc., 815 Spring Arcade — (10/35)
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. — (3/35)
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	ae	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 Brdcstg. 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 Guadalupe, Jal., Cia. Radiofonografica, 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. Brdcstg. 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 Brdcstg. 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. — (9/154)
 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. — (3/135)
 WMAZ ak 1000 Macon, Ga., Southeastern Brdcstg., 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 Brdcstg. Co., Ltd., Box 135
 WATR ak 100 D Waterbury, Conn., WATR Co., Inc., 47 Grand St. — (1/134)
 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 — (9/135)
 CKNX ak 50 Wingham, Ont., Wingham Radio Club, Box 65 — (9/135)
 CKTB ae 100 F St. Catharines, 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.
 KFJX ak 100 (.25) Grand Junction, Colo., Western Slope Brdcstg. Co., Hillcrest Mnr.
 KGDE ak 100 (.25) Fergus Falls, Minn., C. L. Jaren
 KGEK ak 100 Sterling, Colo., Elmer G. Beehler, 109 W. 2nd St.
 KGFJ ae 100 Los Angeles, Calif., Ben S. McGlashan, 1417 S. Figueroa
 KGHI ak 100 (.25) Little Rock, Ark., Arkansas Brdcstg. Co., Marion Hotel — (2/135)
 KMLB ak 100 Monroe, La., Liners Brdcstg. 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., McClatchy Newspapers, Inc.
 WABI ak 100 Bangor, Maine, Community Brdcstg. Service — (7/135)
 WAIM ak 100 Anderson, S. C., Anderson College — (10/135)
 WBZZ 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. — (4/135)
 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 Jansenville, Wis., Gazette Ptg. Co., 200 E. Milwaukee St. — (?)
 WCPO ak 100 (.25) Cincinnati, Ohio, Continental Radio Co., Hotel Sinton — (11/135)
 WEST ae 100 3 (.25) Easton, Pa., Lancaster Brdcstg. 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 Brdcstg. Corp., Melbourne Hotel
WJBC	ak	100	6	Bloomington, Ill., Kaskaskia Broadcasting Co.
WJBL	ak	100	6	Decatur, Ill., Commodore Brdcstg. Co., Gushard Bldg.
WJBW	ak	100	1	New Orleans, La., C. C. Carlson, Godchaux Bldg.
WKBO	ak	100	3 (.25)	Harrisburg, Pa., Keystone Brdcstg. Corp., Penn Harris Hotel
WLVA	ak	100	(.25)	Lynchburg, Va., Lynchburg Brdcstg. 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., WRBL, Inc., Royal Theater Bldg.
WWAE	ae	100	.8	Hammond, Ind., Hammond-Calumet Brdcstg. 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 Brdcstg. Co., Standish Hall Hotel (9/34)
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	.....	Devils 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 Brdcsters, 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. Brdcstg. Co., California Hotel
KGY	ak	100	.....	Olympia, Wash., KGY, Inc., 11th and Capitol Way
KIUL	ak	100	.....	Garden City, Kans., Garden City Brdcstg. 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., Greater Kampehche Radio Corp.
TGW	ak	10000	.....	Guatemala City, Ministerio de Fomento
WALR	ak	100	.....	Zanesville, Ohio, WALR Brdcstg. Corp., 1st Trust & Bank Bldg.
WBAX	ae	100	.....	Wilkes Barre, Pa., John W. 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 Brdcstg. Corp., 63 Broad St.
WCOL	ak	100	.....	Columbus, Ohio, WCOL, Inc., 33 N. High St. (11/34)
WCRW	ae	100	4	Chicago, Ill., Clinton R. White, 2756 Pine Grove Ave.
WEBO	ae	100	6 (.25)	Harrisburg, Ill., Harrisburg Brdcstg. Co., 100 E. Popular
WEDC	ae	100	4	Chicago, Ill., Emil Denmark, 3850 Ogden Ave.
WFAS	ak	100	3	White Plains, N. Y., Westchester Brdcstg. 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 (4/35)
WGNV	ak	100	3	Chester, N. Y., Peter Goelet (Orange County)
WHBF	ak	100	(.25)	Rock Island, Ill., Rock Island Brdcstg. Co., Hotel Harms
WHBU	ak	100	(.25)	Anderson, Ind., Anderson Brdcstg. Corp., Box 816
WIBU	ak	100	(.25)	Poynette, Wis., Wm. C. Forrest, R. F. D. No. 3
WJBY	ak	100	.....	Gadsden, Ala., Gadsden Brdcstg. Co., 112 N. 8th St.
WJBJ	ae	100	D	Hagerstown, Md., Hagerstown Brdcstg. Co., Lovely Dame Bldg.
WJIM	z	100	(.25)	Lansing, Mich., Capital City Brdcstg. Co.
WJW	ae	100	(.25)	Akron, Ohio, WJW, Inc., 41 S. High St.
WKOK	ak	100	1	Sunbury, Pa., Sunbury Brdcstg. 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 Brdcstg. Co.
WMFN	ak	100	.....	Clarksdale, Miss., Attala Brdcstg. 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, 135 E. Jackson St. (1/35)
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, Hnos. Aguiere 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	ae	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 Brdcstg. Co., 7th & Vermont Sts. — (5/35)
XETF ak 12 Veracruz, Ver., Jose M. Lopez, Independencia 28

1230 kilocycles (243.8)

CJOC ak 100 F Lethbridge, Alta., ^{Tele. Person & Carson Advertising Co.} H. R. Carson, Ltd., Marquis Hotel — (6/34)
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 Brdcstg. Co., KiMo Bldg.
KYA ak 1000 N San Francisco, Calif., Pacific Brdcstg. Corp., 988 Market St.
WFBM ae 1000 C Indianapolis, Ind., 307 N. Pennsylvania St.
WNAC ak 1000 C (2.5) Boston, Mass., Shepard Brdcstg. Serv., 21 Brookline Ave.
XEJF ak 100 Monterrey, N. L., R. Junco de la Vega., P. O. Box 186
YNOP z 100 Managua, 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 33
KGCU ak 250 1 Mandan, N. D., Mandan Radio Assn., 404 W. Main St.
KLPM ak 250 1 Minot, N. D., John P. Cooley, Box 707
KTAT ak 1000 Fort Worth, Texas, Ft. Worth Nat'l. Bank Bldg., Southwest Brdcstg. Co.
KTFI ae 1000 Twin Falls, Idaho, Radio Brdcstg. 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 Brdcstg. 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
KFOX 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 — (1/35)
WHBI ak 1000 a (2.5) Newark, N. J., May Brdcstg. 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. Brdcstg. Corp., Wesley Temple Bldg.

1260 kilocycles (238.0)

CFRN ak 100 F Edmonton, Alta., G. R. A. Rice, 109 C.P.R. Bldg. — (10/35)
KGVO ak 1000 Missoula, Mont., Mosbys, Inc., 240 N. Higgins
KOIL ak 1000 B (2.5) Council Bluffs, Iowa, Central States Brdcstg Co. — (1/36)
KPAC ak 500 D Port Arthur, Texas, Port Arthur College — (10/34)
KRGV ak 500 Weslaco, Texas, KRGV, Inc. ^{Tele. Person & Carson Advertising Co.}
KUOA ak 1000 D Fayetteville, Ark., ~~KUOA~~ ^{Tele. Person & Carson Advertising Co.} Washington Hotel (2/35)
KVOA ak 500 Tucson, Ariz., Ariz. Brdcstg. Co., Cons. Nat'l. Bank Bldg.
WHIO ae 1000 R Dayton, Ohio, Miami Valley Corp., 39 S. Ludlow St. — (1/35)
WNBX ak 1000 Springfield, Vt., WNBX Brdcstg. Corp., 39 Main St.
WTOC ae 1000 C Savannah, Ga., Savannah Brdcstg. 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 Brdcstg. 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.
WJDX ae 1000 N (2.5) Jackson, Miss., Lamar Life Insurance Co.
WOOD ak 500 aN Grand Rapids, Mich., Kunsy-Trendle Brdcstg. 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
KFBF ae 1000 (2.5) Great Falls, Mont., Buttrey Brdcstg., Inc., P. O. Box 1817
WCAM ae 500 1 Camden, N. J., City of Camden, City Hall
WCAP ae 500 1 Asbury Park, N. J., Radio Industries, Inc., Convention Hall
WDOD ak 1000 C (5) Chattanooga, Tenn., WDOD Brdcstg. Corp., Hotel Patten
WIBA ae 1000 N (5) Madison, Wis., Badger Brdcstg. Co., 111 King St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WORC	ak	500	C	Worcester, Mass., Alf. F. Kleindienst, 60 Franklin St.
WRR	ak	500	....	Dallas, Texas, City of Dallas, Southland Bldg.
WTNJ	ak	500	1	Trenton, N. J., Trenton Brcdstg. Co., Stacy Trent Hotel
XEMX	z	12	....	Mexico City, D. F., Alfonso T. Avales, Salamanca 87

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah, Intermountain Brcdstg. Corp.
KLCN	ak	100	D	Blytheville, Ark., C. L. Lintzenich, Main & Division Sts.
KTRH	ak	1000	C (5)	Houston, Texas, KTRH Brcdstg. Co., Rice Hotel
WEBC	ae	1000	N (5)	Superior, Wis., Spaulding Hotel, Duluth, Minn., <i>Head of the Lake Brcdstg. Co.</i>
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa., Chamber of Commerce Bldg., <i>Pittsburgh Radio Supply House</i>
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.
WBBR	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. Brcdstg. 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. — (3/35, 10/35)

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. — (9/35)
KCRJ	ak	100	D	Jerome, Ariz., Chas. C. Robinson, Drawer D
KFPL	dk	100	(.25)	Dublin, Texas, C. C. Baxter, Box 176
KFXR	ak	100	(.25)	Oklahoma City, Okla., 541 Hightower Bldg., <i>Exchange Ave. Baptist Church</i>
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. Brcdstg. Corp., 919 W. 27th
KINY	ak	100	....	Juneau, Alaska, Edwin A. Kraft — (11/35)
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 — (9/35)
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	ak	100	....	El Paso, Texas, Tri-State Brcdstg. Co., Box 1976
KVOL	ak	100	....	Lafayette, La., Evangeline Hotel, <i>Evangeline Broadcasting Co.</i>
KXRO	ak	100	....	Aberdeen, Wash., KXRO, Inc., Hotel Morck
WAML	ak	100	....	Laurel, Miss., New Laurel Radio Co., Box 26 — (10/35)
WBEO	ae	100	....	Marquette, Mich., Lake Superior Brcdstg. 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 Brcdstg. Co., Box 106
WDAH	ak	100	S	El Paso, Texas, Tri-State Brcdstg. Co., Box 1976
WEBR	aeH	100	(.25)	Buffalo, N. Y., Howell Brcdstg. Co., Inc., 23 North St.
WEMP	z	100	D	Milwaukee, Wis., Milwaukee Brcdstg. Co.
WEXL	ak	50	....	Royal Oak, Mich., Royal Oak Brcdstg. Co., 212 W. 6th St.
WFBG	ae	100	3	Altoona, Pa., Gable Brcdstg. Co., 12th Ave. & 13th St.
WDFD	mk	100	....	Flint, Mich., Flint Brcdstg. Co., Union Industrial Bldg.
WGH	aj	100	(.25)	Newport News, Va., Hampton Rds. Brcd. Corp., 2813 Washington
WHAT	ak	100	4	Philadelphia, Pa., Indp. Brcdstg. Co., Public Ledger Bldg.
WJAC	ae	100	3	Johnstown, Pa., WJAC, Inc., Locust St.
WLBC	ak	100	6 (.25)	Muncie, Ind., D. A. Burton, Anthony Bldg.
WLNH	ak	100	....	Laconia, N. H., Northern Brcdstg. Co., 523 Main St.
WMBO	ak	100	....	Auburn, N. Y., WMBO, Inc., Metcalf Bldg.
WMFF	ak	100	D (.25)	Plattsburg, N. Y., Plattsburg Brcdstg. Corp., Hotel Cumberland
WNBH	ak	100	(.25) C	New Bedford, Mass., E. Anthony & Sons, 251 Union St. — (9/34)
WOL	ak	100	....	Washington, D. C., American Brcdstg. Co., Annapolis Hotel
WRAW	ak	100	....	Reading, Pa., Reading Brcdstg. Co., 533 Penn St.
WROL	ak	100	(.25)	Knoxville, Tenn., Stuart Brcdstg. 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 Brcdsters., 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 — (6/35)
XEAJ	z	15	.....	Oaxaca, Oax., Enrique M. Crihuella, 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	.....	Torreon, 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 Brdctg. 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
KGHF	ak	500	.....	Pueblo, Colo., C. P. Ritchie, 113 Broadway
KGMB	ak	1000	C	Honolulu, T. H., Honolulu Brdctg. Co., Box 2663
KID	ae	250	(.5)	Idaho Falls, Idaho, KID Brdctg. Co., Box 487
KRNT	ak	500	C (1)	Des Moines, Iowa, 715 Locust St., Iowa Brdctg. Co. — (4/35, 10/35)
WADC	ae	1000	C (2.5)	Akron, Ohio, Allen T. Simmons, P. O. Box 29
WORK	ak	1000	.....	York, Pa., York Brdctg. 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 — (10/35)

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., KGNO Brdctg. Station
WCOA	ak	500	C	Pensacola, Fla., Pensacola Brdctg. Co., San Carlos Hotel
WFEA	ae	500	C (1)	Manchester, N. H., N. Hamp. Brdctg. Co., Carpenter Hotel
WSPD	ae	1000	C (2.5)	Toledo, Ohio, Toledo Brdctg. 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 Galiano 102
KIDO	ak	1000	(.25)	Boise, Idaho, Boise Brdctg. 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
WBNX	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 Brdctg. Co., 435 Pine Ave.
WCSC	ak	500	(1)	Charleston, S. C., S. C. Brdctg. Corp., Francis Marion Hotel
WFBL	ak	1000	C (5)	Syracuse, N. Y., Onondaga Brdctg. Co., Onondaga Hotel
WGES	ae	500	1	Chicago, Ill., Oak Leaves Brdctg. Co., 4000 Washington — (10/35)
WQBC	ak	1000	D	Vicksburg, Miss., Delta Brdctg. 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 Brdctg. 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	C	Bakersfield, Calif., Station KERN, Elk's Club — (9/34)
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 Brdcters., 502 Trinity Life
KFRO	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. Brdctg. 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	4	Clovis, N. M., Southwest Brdcstg. Co.
KIUP	ak	100	P	Durango, Colo., C. Guy Shepard, 2806 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.— (9/34)
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— (10/35)
WAGF	ak	100	(.25)	Dothan, Ala., Dothan Brdcstg. Co., Box 25 — (7/34)
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.
WHBQ	ak	100	.....	Memphis, Tenn., WHBQ, 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.— (9/35)
WLLH	ak	100	(.25)	Lowell, Mass., Merrimac Brdcstg. Co., Box D— (7/35)
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.— (6/34)
WPFB	ak	100	.....	Hattiesburg, Miss., Forest Brdcstg. Co., 512 Main St.— (2/35, 5/35)
WQDM	ae	100	D	St. Albans, Vt., Regan & Bostwick, 42 N. Main St.— (9/34)
WRAK	ak	100	(.25)	Williamsport, Pa., WRAK, Inc., 244 W. 4th St.
WRDO	ae	100	(.25)	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 Nonoalco No. 344
XEI	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., Evansville on the Air, Inc.
.....	z	100	P	Virginia, Minn., The Lakes Brdcstg. Co.

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— (6/34)
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.— (12/34)

1390 kilocycles (215.7)

CMJC	z	150	.....	Camaguey, Cuba, Felix Sanchez, Calle Cisneros y Gnr1 Gomez
HHH	ak	15	1395	San Ped. de Macoris, D.R., Domingo Dominguez
KLRA	ae	1000	C (2.5)	Little Rock, Ark., Arkansas Brdcstg. Co., Box 550
KOOS	ae	250	.....	Marsfield, Ore., H. H. Hanseth, Hall Bldg.
KOY	ae	500	(1)	Phoenix, Ariz., Nielson, Co., P. O. Box 1323
WHK	ae	1000	C (2.5)	Cleveland, Ohio, Radio Aff 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.— (5/34)
FGX	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., Indianapolis Broadcasting, Inc.
WLTH	ak	500	2	Brooklyn, N. Y., Voice of Brooklyn, 105 2nd Ave., N. Y. C.
WVFW	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.— (3/25)
CKFC	ak	50	5	Vancouver, B. C., United Church of Can., Hemlock & 12th — (9/34)
CKMO	ag	100	5F	Vancouver, B. C., Sprott-Shaw Co., 1604a Binkins 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 Brcdstg. Co. — 6/35
WAAB	ak	500	C	Boston, Mass., Bay State Brcdstg. Co., 21 Brookline Ave.
WBCM	ae	500	....	Bay City, Mich., James E. Davidson, Hotel Wenonoh
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 Brcdsters, Inc., 109 S. Water
WSFA	ak	500	C (1)	Montgomery, Ala., Mont. Brcdstg. 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 Brcdstg. Co., Texas Theater Bldg. —
KABR	ak	100	....	Aberdeen, S. Dak., Aberdeen Brcdstg. Co.
KALB	z	100	D	Alexandria, La., Alexandria Brcdstg. Co.
KBPS	aj	100	4	Portland, Ore., Benson School, 546 N. E. 12th Ave.
KCMC	ak	100	....	Texarkana, Ark., No. Miss. Brcdstg. Co., Box 865 — (33*)
KFIZ	ak	100	....	Fond du Lac, Wis., Reporter Ptg. Co., 18 W. First St.
KGFF	ak	100	(.25)	Shawnee, Okla., KGFF, Inc., 9th & Bell Sts.
KGGC	ak	100	....	San Francisco, Cal., Golden Gate Brcdstg. Co., 230 Eddy St.
KGIW	ak	100	1	Alamosa, Colo., Leonard E. Wilson, 326 N. Commercial
KHBC	z	100	....	Hilo, T. H., Honolulu Brcdstg. Co.
KIDW	ak	100	1	Lamar, Colo., Lamar Brcdstg. Co., Box 688
KIUN	ak	100	....	Pecos, Texas, J. H. Hawkins & B. H. Hubbs
KNET	z	100	DP	Palestine, Texas, Palestine Brcdstg. Assn.
KORE	ae	100	....	Eugene, Ore., Eugene Brcdstg. Station, 733 Willamette St. — (7)
KRLC	ak	100	....	Lewiston, Idaho, H. E. Studebaker, Lewis-Clarke Hotel
KRLH	z	100	DP	Midland, Tex., Clarence Scharbaur
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
WACO	ak	100	C	Waco, Texas, Cent. Tex. Brcdstg. Co., Amicable Bldg. — (0-4)
WAGM	ae	100	....	Presque Isle, Maine, Aroostook Brcdstg. Corp., Main St.
WAZL	ak	100	2	Hazleton, Pa., Hazleton Broadcasting Service, Inc.
WCBS	ak	100	....	Springfield, Ill., WCBS, Inc., 208 1/2 S. 5th St.
WEED	ak	100	3	Rocky Mount, N. C., Wm. Avera Wynne, Box 221
WEHC	ak	100	3 (.25)	Charlottesville, Va., Community Brcdstg. 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 Brcdstg. Corp., Rylander Theater
WHDL	ak	100	D	Olean, N. Y., Tupper Lake Brcdstg. Co., Exchange Bank
WHFC	ae	100	a	Cicero, Ill., WHFC, Inc., 6138 W. Cermak Road
WILM	aj	100	2	Wilmington, Del., Del. Brcdstg. Corp., 920 King St.
WJBO	ak	100	....	Baton Rouge, La., Baton Rouge Brcdstg. 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
WLAP	ak	100	(.25)	Lexington, Ky., Amer. Brcdstg. Corp., Main & Esplanade
WLBF	ak	100	....	Kansas City, Kans., WLBF 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. Brcdstg. Co., 7310 Woodward Ave.,
WMBH	ak	100	(.25)	Joplin, Mo., Joplin Brcdstg. 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 Brcdstg. Corp., Box 486 — (5/34)
WPAD	ak	100	(.25)	Paducah, Ky., Paducah Brcdstg. Co., 2201 Broadway
WPAR	ak	100	....	Parkersburg, W. Va., Chancellor Hotel, Ohio Valley Brcdstg. Corp.
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 Brcdstg. Co., W. 12th St.
KSO	ak	500	B (1)	Des Moines, Iowa, Iowa Brcdstg. Co., 715 Locust St. — (10/35)
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 Brcdstg. 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 Hathaway, Box 930

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KBC	ag	250	D	Oakland, Calif., Warner Bros., 2201 Telegraph Ave.
KXYZ	ak	1000	....	Houston, Texas, Harris County Brdcastg. Co., Gulf Bldg.
TIFS	z	7.5	(1441)	Cartago, C. R.
WBIG	ae	500	C (1)	Greensboro, N. C., N. C. Brdcastg. Co., The O. Henry Hotel
WCBA	aj	500	a	Allentown, Pa., B. B. Musselman, 39-41 Tenth St.
WMBD	ak	500	C (1)	Peoria, Ill., Peoria Brdcastg. 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. Brdcastg. 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 Brdcastg. Co., Vance Hotel — (10/34)
KTBS	ak	1000	N	Shreveport, La., Tri-State Brdcastg. Sys., Box 17
WGAR	ak	500	B (1)	Cleveland, Ohio, WGAR Brdcastg. Co., Hotel Statler
WHOM	ae	250	....	Jersey City, N. J., N. J. Brdcastg. Corp., 2870 Hudson Blvd.
WSAR	ae	1000	....	Fall River, Mass., Academy of Music Bldg.
WTFI	ak	500	....	Athens, Ga., Liberty Brdcastg. 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 Brdcastg. Co., St. Paul Hotel
WJSV	ak	10000	C	Washington, D. C., Old Dominion Brdcastg. 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. — (5/35)

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 Brdcastg. Corp., Rand Bldg.

1490 kilocycles (201.2)

KFBK	ak	5000	C	Sacramento, Calif., Sacramento Bee, 7th & I Sts. — James McClatchy Pub. Co.
WCKY	ae	5000	B	Covington, Ky., L. B. Wilson, Inc., 6th & Madison

1500 kilocycles (199.9)

CJIC	ak	100	....	Sault Ste. Marie, Ont., Hyland & Whitby, 678 Queen St., E. — (1/36)
CMCN	z	150	....	Havana, Cuba, Reina y Av. Buen Retiro, Marianao
KDB	ak	100	C	Santa Barbara, Calif., Sta. Barbara Brdcasters, Ltd., 15-17 E. Haley
KGFI	ak	100	(.25)	Corpus Christi, Tex., Eagle Brdcastg. Co., Box 1508
KGFK	ak	100	Y	Moorhead, Minn., Red River Brdcastg. Co., Comstock Hotel
KGKB	ak	100	....	Tyler, Texas, East Texas Brdcastg. 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 Brdcastg. Co., Norwood Bldg. — (5/25)
KOTN	ak	100	D	Pine Bluff, Ark., Universal Brdcastg. Corp., Hotel Pines — (5/35)
KPJM	ak	100	....	Prescott, Ariz., Scott & Sturm, Box 782
KPLC	ak	100	....	Lake Charles, La., Calcasieu Brdcastg. Co., Majestic Hotel
KPO	ak	100	(.25)	Wenatchee, Wash., Westcoast Brdcastg. Co., KPQ Bldg., 20 2nd
KREG	ak	100	....	Santa Ana, Calif., The Voice of the Orange Empire, Ltd.
KRNR	z	100	DP	Roseburg, Ore., Oregon Publishing Co.
KXO	ae	100	....	El Centro, Calif., F. M. Bowles, Box 140 — (9/34)
WCNW	ak	100	1 (.25)	Brooklyn, N. Y., Arthur Faske, 864-868 Flatbush Ave.
WDNC	ae	100	C	Durham, N. C., Durham Radio Corp., Washington Duke Hotel — (6/3)
WGAL	ae	100	(.25)	Lancaster, Pa., WGAL, Inc., 8 W. King St.
WHBB	z	100	D	Selma, Ala., YMCA Building; Dr. William J. Reynolds & Wm. J. Reynolds Jr.
WHBF	ak	100	(.25)	Kosciusko, Miss., Attala Brdcastg. Corp., Box 631 — (6/34)
WJBK	ae	100	(.25)	Detroit, Mich., Jas. F. Hopkins, Inc., 6559 Hamilton Ave.
WKBB	ak	100	(.25)	E. Dubuque, Ill., Sanders Bros. Hotel Julian — (9/35)
WKBV	ak	100	....	Richmond, Ind., Knox Radio Corp., Box 308 — (6/34)
WKBZ	ak	100	(.25)	Muskegon, Mich., Karl L. Ashbacher, Occidental Hotel
WKEU	ak	100	....	Griffin, Ga., Station WKEU, 906 Hill St.
WMBQ	ae	100	1	Brooklyn, N. Y., Metropolitan Brdcastg. Corp., 95 Leonard — (9/35)
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 Brdcastg. Corp., 309 Eighth St. — (2/35)
WRGA	ak	100	(.25)	Rome, Ga., Rome Brdcastg. 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
WVGC	z	100	P	Valley City, N. Dak., George D. Baird

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., <i>Int. National Television, Inc.</i>

1550 kilocycles (193.4)

W2XR	z	1000	....	Long Isl. City, N. Y., Scientific Brdcstg. Serv., 41 Park Row, N. Y. — (2/35)
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	Third Column Symbols	Fourth Column Symbols
a Verifies reception for return postage.	k Has no stamps.	networks.
b Verifies only occasionally.	m Verifies for 5c.	P Has construction permit only.
c Does not verify.	n Weather or time only.	R National "Red" network.
d Verification 10c; letter 25c.	z No information available.	S Sunday only.
e Sends Ekko stamp for 10c.		Sy Synchronized.
f Sends Ekko stamp for 5c.	Fourth Column Symbols	X Has permit to increase power.
g Sends Ekko stamp for postage.	B National "Blue" network.	Y Has permit to change location.
h Sends own station stamp for 10c.	C Columbia network.	Z Has permit to change frequency.
i Sends own station stamp for 5c.	D Day time only.	a-b-c. Small letters show stations using same transmitter.
j Sends own station stamp for postage.	Dn Day time with occasional evening hours.	1-2-3. Figures denote stations sharing time.
	F Canadian Radio Brdcstg. Commission.	..... No information.
	N National "Red" and "Blue"	

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		KFPW 1210 100	KHSL 950 250
WMFO 1370 100	Jerome	Hot Springs	Del Monte
Dothan	KCRJ 1310 100	KTSH 1060 10000 N	KDON 1210 100
WAGF 1370 100	Lowell	Jonesboro	El Centro
Gadsden	KSUN 1200 100	KBTM 1200 100	KXO 1500 100
WJBY 1210 100	Phoenix	Little Rock	Eureka
Mobile	KOY 1390 500	KARK 890 250	KIEM 1450 500
WALA 1380 500 C	KYAR 620 1000 N	KGHI 1200 100	Fresno
Montgomery	Prescott	KLRA 1390 1000 C	KMJ 580 1000 C
WSFA 1410 500 C	KPJM 1500 100	Pine Bluff	Glendale
Selma	Tucson	KOTN 1500 100	KIEV 850 100
WHBB 1500 100	KGAR 1370 100	Texarkana	Hollywood
Sheffield	KVOA 1260 500	KCMC 1420 100	KFWB 950 1000
WNRA 1420 100	Yuma	CALIFORNIA	KMTR 570 1000
	KUMA 1420 100		KNX 1050 50000
ALASKA	ARKANSAS	Bakersfield	Long Beach
Anchorage	Blytheville	KERN 1370 100 C	KFOX 1250 1000
KFQD 780 250	KLCN 1290 100	W6XAI 1550 1000	KGER 1360 1000
		Berkeley	Los Angeles
		KRE 1370 100	KECA 1430 1000 N

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KFAC	1300	1000
KFI	640	50000 N
KFSG	1120	500
KFVD	1000	250
KGFJ	1200	100
KHJ	900	1000 C
KRRD	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		
KFSD	600	1000 N
KGB	1330	1000 C
San Francisco		
KFRC	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
KOA	830	50000 N
KPOF	880	500
KVOD	920	500
Durango		
KIUP	1370	100
Grand Junction		
KFXJ	1200	100
Greeley		
KFKA	880	500
Lamar		
KIDW	1420	100
Pueblo		
KGHF	1320	500
Sterling		
KGEK	1200	100
CONNECTICUT		
Bridgeport		
WICC	600	500 C
Hartford		
WDRC	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
WIXBS	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		
WRBL	1200	100
Griffin		
WKEU	1500	100
Macon		
WMAZ	1180	1000
Rome		
WRGA	1500	100
Savannah		
WTOC	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
Lowiston		
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
WGFL	970	5000 B
WGRW	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		
WGBF	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		
KFGO	1370	100
Cedar Rapids		
WMT	600	1000 B
Council Bluffs		
KOIL	1260	1000 B
Davenport		
WOC	1370	100 C
Decorah		
KGCA	1270	100
KLWC	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		
WLBF	1420	100
Lawrence		
KFKU	1220	1000
WREN	1220	100 B
Manhattan		
KSAC	580	500
Topeka		
WIBW	580	1000 C
Wichita		
KFH	1300	1000 C
KENTUCKY		
Ashland		
WCMI	1310	100
Covington		
WKY	1490	5000 B
Lexington		
WLAP	1420	100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

	MICHIGAN	MISSOURI	NEW JERSEY
Louisville WAVE 940 1000 N WHAS 820 50000 C Paducah WPAD 1420 100	Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit WJBK 1500 100 WJR 750 50000 C WMBC 1420 100 WVJ 920 1000 R WXYZ 1240 1000 B East Lansing WKAR 850 1000 Flint WFDL 1310 100 Grand Rapids WASH 1270 500 N WOOD 1270 500 N Ironwood WJMS 1420 100 Jackson WIBM 1370 100 Kalamazoo WKZO 590 1000 Lansing WJIM 1210 100 Lapeer WMPG 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Royal Oak WEXL 1310 50	Cape Girardeau KFVS 1210 100 Columbia KFRU 630 500 Jefferson City WOS 630 500 Joplin WMBH 1420 100 Kansas City KMBC 950 1000 C KWKC 1370 100 WDAF 610 1000 R WHB 860 1000 W9XBY 1530 1000 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 KWTO 560 5000	Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WNEW 1250 1000 WOR 710 50000 Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 Zarephath WAWZ 1350 500
LOUISIANA	MINNESOTA	MONTANA	NEW MEXICO
Alexandria KALB 1420 100 Baton Rouge WJBO 1420 100 Lafayette KVOL 1310 100 Lake Charles KPLC 1500 100 Monroe KMLB 1200 100 New Orleans WBNO 1200 100 WDSU 1250 1000 WJBW 1200 100 WSMB 1320 500 N WWL 850 10000 C Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 1000 C	Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Minneapolis WCCO 810 50000 C WDGJ 1180 1000 WLB 1250 1000 WTCN 1250 1000 Moorehead KGFK 1500 100 Northfield WCAL 1250 1000 Rochester KROC 1310 100 St. Paul KSTP 1460 25000 N Virginia 1370 100	Billings KGHL 780 1000 N Butte KGRB 1340 1000 N Great Falls KFBB 1280 1000 Kalispell KGEZ 1310 100 Missoula KGVO 1260 1000 Wolf Point KGCX 1310 100	Albuquerque KGGM 1230 250 KOB 1180 10000 Clevis KICA 1370 100 Reswell KGFL 1370 100 Santa Fe KIUF 1310 100
MAINE	MISSISSIPPI	NEBRASKA	NEW YORK
Augusta WRDO 1370 100 Bangor WABI 1200 100 WLBZ 620 500 C Pertland WCSH 940 1000 R Presque Isle WAGM 1420 100	Babson Park WBSO 920 500 Boston WAAB 1410 500 C WBZ 990 50000 B WCOP 1120 500 WEEL 590 1000 R WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 C Fall River WSAR 1450 1000 Lewell WLLH 1370 100 New Bedford WNBH 1310 100 C Springfield WBZA 990 1000 B WMAS 1420 100 C Worcester WORC 1280 500 C WTAG 580 500 R	Clay Center KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln KFAB 770 10000 C KFOR 1210 100 C Norfolk WJAG 1060 1000 North Platte KGNF 1430 1000 Omaha WAAW 660 500 WOW 590 1000 R Scottsbluff KGKY 1500 100 York KGBZ 930 1000	Breoklyn WARD 1400 500 WBBC 1400 500 WBRR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBO 1500 100 WVFW 1400 500 Buffalo WBEN 900 1000 R WEBR 1310 100 WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 WBNY 1370 100 Canton WCAD 1220 500 Chester WGNV 1210 100 Elmira WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WOCL 1210 50 Long Island City W2XR 1550 1000 New York WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WEAF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000

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<tr><td>WFBL</td><td>1360</td><td>1000</td><td>C</td></tr> <tr><td>WSYR</td><td>570</td><td>250</td><td>B</td></tr> <tr><td colspan="4"> Troy</td></tr> <tr><td>WHAZ</td><td>1300</td><td>500</td><td></td></tr> <tr><td colspan="4"> Utica</td></tr> <tr><td>WIBX</td><td>1200</td><td>100</td><td>C</td></tr> <tr><td colspan="4"> White Plains</td></tr> <tr><td>WFAS</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Woodside</td></tr> <tr><td>WWRL</td><td>1500</td><td>100</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">NORTH CAROLINA</td></tr> <tr><td colspan="4"> Asheville</td></tr> <tr><td>WWNC</td><td>570</td><td>1000</td><td>N</td></tr> <tr><td colspan="4"> Charlotte</td></tr> <tr><td>WBT</td><td>1080</td><td>50000</td><td>C</td></tr> <tr><td>WSOC</td><td>1210</td><td>100</td><td>N</td></tr> <tr><td colspan="4"> Durham</td></tr> <tr><td>WDNC</td><td>1500</td><td>100</td><td>C</td></tr> <tr><td 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<tr><td>KDLR</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Fargo</td></tr> <tr><td>WDAY</td><td>940</td><td>1000</td><td></td></tr> <tr><td colspan="4"> Grand Forks</td></tr> <tr><td>KFJM</td><td>1370</td><td>100</td><td></td></tr> <tr><td colspan="4"> Mandan</td></tr> <tr><td>KGCU</td><td>1240</td><td>250</td><td></td></tr> <tr><td colspan="4"> Minot</td></tr> <tr><td>KLPM</td><td>1240</td><td>250</td><td></td></tr> <tr><td colspan="4"> Valley City</td></tr> <tr><td>.....</td><td>1500</td><td>100</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">OHIO</td></tr> <tr><td colspan="4"> Akron</td></tr> <tr><td>WADC</td><td>1320</td><td>1000</td><td>C</td></tr> <tr><td>WJW</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Canton</td></tr> <tr><td>WHBC</td><td>1200</td><td>100</td><td></td></tr> <tr><td colspan="4"> Cincinnati</td></tr> <tr><td>WCPO</td><td>1200</td><td>100</td><td></td></tr> </table>	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	WHEC	1430	500	C	WSAY	1210	100		Saranac Lake				WNBZ	1290	100		Schenectady				WGY	790	50000	R	Syracuse				WFBL	1360	1000	C	WSYR	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				WJBR	1420	100		Greensboro				WBIG	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				KGCU	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		<table border="0" style="width: 100%;"> <tr><td>WKRC</td><td>550</td><td>1000</td><td>C</td></tr> <tr><td>WLW</td><td>700</td><td>50000</td><td>N</td></tr> <tr><td>WASI</td><td>1330</td><td>1000</td><td>R</td></tr> <tr><td colspan="4"> Cleveland</td></tr> <tr><td>WGAR</td><td>1450</td><td>500</td><td>B</td></tr> <tr><td>WHK</td><td>1390</td><td>1000</td><td>C</td></tr> <tr><td>WJAY</td><td>610</td><td>500</td><td></td></tr> <tr><td>WTAM</td><td>1070</td><td>50000</td><td>R</td></tr> <tr><td colspan="4"> Columbus</td></tr> <tr><td>WAU</td><td>640</td><td>500</td><td></td></tr> <tr><td>WBNS</td><td>1430</td><td>500</td><td>C</td></tr> <tr><td>WCOL</td><td>1210</td><td>100</td><td></td></tr> <tr><td>WOSU</td><td>570</td><td>750</td><td></td></tr> <tr><td colspan="4"> Dayton</td></tr> <tr><td>WHIO</td><td>1260</td><td>1000</td><td>R</td></tr> <tr><td>WSMK</td><td>1380</td><td>200</td><td>C</td></tr> <tr><td colspan="4"> Portsmouth</td></tr> <tr><td>WPAY</td><td>1370</td><td>100</td><td></td></tr> <tr><td colspan="4"> Toledo</td></tr> <tr><td>WSPD</td><td>1340</td><td>1000</td><td>C</td></tr> <tr><td colspan="4"> Youngstown</td></tr> <tr><td>WKBN</td><td>570</td><td>500</td><td>C</td></tr> <tr><td colspan="4"> Zanesville</td></tr> <tr><td>WALR</td><td>1210</td><td>100</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">OKLAHOMA</td></tr> <tr><td colspan="4"> Ada</td></tr> <tr><td>KADA</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Ardmore</td></tr> <tr><td>KVSO</td><td>1200</td><td>100</td><td></td></tr> <tr><td colspan="4"> Elk City</td></tr> <tr><td>KASA</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Enid</td></tr> <tr><td>KCRC</td><td>1360</td><td>250</td><td></td></tr> <tr><td colspan="4"> Norman</td></tr> <tr><td>WNAD</td><td>1010</td><td>1000</td><td></td></tr> <tr><td colspan="4"> Oklahoma</td></tr> <tr><td>KFXR</td><td>1310</td><td>100</td><td></td></tr> <tr><td>KGFG</td><td>1370</td><td>100</td><td></td></tr> <tr><td>KOMA</td><td>1480</td><td>5000</td><td>C</td></tr> <tr><td>WKY</td><td>900</td><td>1000</td><td>N</td></tr> <tr><td colspan="4"> Ponca City</td></tr> <tr><td>WBBJ</td><td>1200</td><td>100</td><td></td></tr> <tr><td colspan="4"> Shawnee</td></tr> <tr><td>KGFF</td><td>1420</td><td>100</td><td></td></tr> <tr><td colspan="4"> Tulsa</td></tr> <tr><td>KTUL</td><td>1400</td><td>500</td><td>C</td></tr> <tr><td>KVOO</td><td>1140</td><td>25000</td><td>N</td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">OREGON</td></tr> <tr><td colspan="4"> Astoria</td></tr> <tr><td>KAST</td><td>1370</td><td>100</td><td></td></tr> <tr><td colspan="4"> Corvallis</td></tr> <tr><td>KOAC</td><td>550</td><td>1000</td><td></td></tr> <tr><td 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Salem</td></tr> <tr><td>KSLM</td><td>1370</td><td>100</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">PENNSYLVANIA</td></tr> <tr><td colspan="4"> Allentown</td></tr> <tr><td>WCBA</td><td>1440</td><td>500</td><td></td></tr> </table>	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				WAU	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				WBBJ	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	KWJJ	1040	500		KXL	1420	100		Roseburg				KRNR	1500	100		Salem				KSLM	1370	100		PENNSYLVANIA				Allentown				WCBA	1440	500		<table border="0" style="width: 100%;"> <tr><td>WSAN</td><td>1440</td><td>500</td><td></td></tr> <tr><td colspan="4"> Altoona</td></tr> <tr><td>WFBG</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Easton</td></tr> <tr><td>WEST</td><td>1200</td><td>100</td><td></td></tr> <tr><td colspan="4"> Erie</td></tr> <tr><td>WLEU</td><td>1420</td><td>100</td><td></td></tr> <tr><td colspan="4"> Glenside</td></tr> <tr><td>WIBG</td><td>970</td><td>100</td><td></td></tr> <tr><td colspan="4"> 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<tr><td>WIP</td><td>610</td><td>1000</td><td></td></tr> <tr><td>WPEN</td><td>920</td><td>250</td><td></td></tr> <tr><td>WRAX</td><td>920</td><td>250</td><td></td></tr> <tr><td>WTEL</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Pittsburgh</td></tr> <tr><td>KDKA</td><td>980</td><td>50000</td><td>B</td></tr> <tr><td>KQV</td><td>1380</td><td>500</td><td></td></tr> <tr><td>WCAE</td><td>1220</td><td>1000</td><td>R</td></tr> <tr><td>WJAS</td><td>1290</td><td>1000</td><td>C</td></tr> <tr><td>WWSW</td><td>1500</td><td>100</td><td></td></tr> <tr><td colspan="4"> Reading</td></tr> <tr><td>WEEU</td><td>830</td><td>1000</td><td></td></tr> <tr><td>WRWA</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Scranton</td></tr> <tr><td>WGBI</td><td>880</td><td>500</td><td></td></tr> <tr><td>WQAN</td><td>880</td><td>250</td><td></td></tr> <tr><td colspan="4"> Sunbury</td></tr> <tr><td>WKOK</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Wilkes-Barre</td></tr> <tr><td>WBAX</td><td>1210</td><td>100</td><td></td></tr> <tr><td>WBRE</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Williamsport</td></tr> <tr><td>WRAC</td><td>1370</td><td>100</td><td></td></tr> <tr><td colspan="4"> York</td></tr> <tr><td>WORK</td><td>1320</td><td>1000</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">PUERTO RICO</td></tr> <tr><td colspan="4"> Ponce</td></tr> <tr><td>WPRP</td><td>1420</td><td>100</td><td></td></tr> <tr><td colspan="4"> San Juan</td></tr> <tr><td>WKAQ</td><td>1240</td><td>1000</td><td></td></tr> <tr><td>WNEL</td><td>1290</td><td>500</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">RHODE ISLAND</td></tr> <tr><td colspan="4"> Newport</td></tr> <tr><td>WNRI</td><td>1200</td><td>100</td><td></td></tr> <tr><td colspan="4"> Providence</td></tr> <tr><td>WEAN</td><td>780</td><td>500</td><td>C</td></tr> <tr><td>WJAR</td><td>890</td><td>500</td><td>R</td></tr> <tr><td>WPRO</td><td>630</td><td>250</td><td></td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">SOUTH CAROLINA</td></tr> <tr><td colspan="4"> Anderson</td></tr> <tr><td>WAIM</td><td>1200</td><td>100</td><td></td></tr> <tr><td colspan="4"> Charleston</td></tr> <tr><td>WCSC</td><td>1360</td><td>500</td><td></td></tr> <tr><td colspan="4"> Columbia</td></tr> <tr><td>WIS</td><td>1010</td><td>50</td><td>N</td></tr> </table>	WSAN	1440	500		Altoona				WFBG	1310	100		Easton				WEST	1200	100		Erie				WLEU	1420	100		Glenside				WIBG	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				KYV	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	KQV	1380	500		WCAE	1220	1000	R	WJAS	1290	1000	C	WWSW	1500	100		Reading				WEEU	830	1000		WRWA	1310	100		Scranton				WGBI	880	500		WQAN	880	250		Sunbury				WKOK	1210	100		Wilkes-Barre				WBAX	1210	100		WBRE	1310	100		Williamsport				WRAC	1370	100		York				WORK	1320	1000		PUERTO RICO				Ponce				WPRP	1420	100		San Juan				WKAQ	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	<table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">Greenville</td></tr> 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Watertown</td></tr> <tr><td>KWTN</td><td>1210</td><td>100</td><td></td></tr> <tr><td colspan="4"> Yankton</td></tr> <tr><td>WNAX</td><td>570</td><td>1000</td><td>C</td></tr> </table> <hr/> <table border="0" style="width: 100%;"> <tr><td colspan="4" style="text-align: center;">TENNESSEE</td></tr> <tr><td colspan="4"> Bristol</td></tr> <tr><td>WOPI</td><td>1500</td><td>100</td><td></td></tr> <tr><td colspan="4"> Chattanooga</td></tr> <tr><td>WDOD</td><td>1280</td><td>1000</td><td>C</td></tr> <tr><td colspan="4"> Jackson</td></tr> <tr><td>WTJS</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Knoxville</td></tr> <tr><td>WNOX</td><td>560</td><td>1000</td><td>C</td></tr> <tr><td>WROL</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Memphis</td></tr> <tr><td>WHBQ</td><td>1370</td><td>100</td><td></td></tr> <tr><td>WMC</td><td>780</td><td>1000</td><td>N</td></tr> <tr><td>WNBR</td><td>1430</td><td>500</td><td></td></tr> 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<tr><td>KGFI</td><td>1500</td><td>100</td><td></td></tr> <tr><td colspan="4"> Dallas</td></tr> <tr><td>KRLD</td><td>1040</td><td>10000</td><td>C</td></tr> <tr><td>WFAA</td><td>800</td><td>50000</td><td>N</td></tr> <tr><td>WRR</td><td>1280</td><td>500</td><td></td></tr> <tr><td colspan="4"> Dublin</td></tr> <tr><td>KFPL</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> El Paso</td></tr> <tr><td>KTSM</td><td>1310</td><td>100</td><td></td></tr> <tr><td>WDAH</td><td>1310</td><td>100</td><td></td></tr> <tr><td colspan="4"> Fort Worth</td></tr> <tr><td>KFJZ</td><td>1370</td><td>100</td><td></td></tr> <tr><td>KTAT</td><td>1240</td><td>1000</td><td></td></tr> <tr><td>WBAP</td><td>800</td><td>50000</td><td>N</td></tr> <tr><td colspan="4"> Galveston</td></tr> <tr><td>KLUF</td><td>1370</td><td>100</td><td></td></tr> <tr><td colspan="4"> Houston</td></tr> <tr><td>KPRC</td><td>920</td><td>1000</td><td>N</td></tr> </table>	Greenville				WFBC	1300	1000		Spartanburg				WSPA	920	1000		SOUTH DAKOTA				Aberdeen				KABR	1420	100		Brookings				KFDY	780	1000		Huron				KGDY	1340	250		Pierre				KGFX	630	200		Rapid City				WCAT	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				WDOD	1280	1000	C	Jackson				WTJS	1310	100		Knoxville				WNOX	560	1000	C	WROL	1310	100		Memphis				WHBQ	1370	100		WMC	780	1000	N	WNBR	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				KNOW	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 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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KTRH	1290	1000 C
KXYZ	1440	1000
Longview		
KFRO	1370	100
Lubbock		
KFYO	1310	100
Midland		
KRLH	1420	100
Palestine		
KNET	1420	100
Pampa		
...	1310	100
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
WOAI	1190	50000 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	50000 C

VERMONT

Burlington		
WCAX	1200	100
Rutland		
WSYB	1500	100
St. Albans		
WDM	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

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
KHQ	590	1000 N
Tacoma		
KMO	1330	250
KVI	570	1000 C
Walla Walla		
KUJ	1370	100
Wenatchee		
KPQ	1500	100
Yakima		
KIT	1310	100

WEST VIRGINIA

Bluefield		
WHIS	1410	250
Charleston		
WCHS	580	500
Fairmont		
WMMN	890	500
Huntington		
WSAZ	1190	1000
Parkersburg		
WPAR	1420	100
Wheeling		
WWVA	1160	5000 C

WISCONSIN

Eau Claire		
WTAQ	1330	1000
Fond du Lac		
KFIZ	1420	100
Green Bay		
WHBY	1200	100
Janesville		
WCLO	1200	100
LaCrosse		
WKBH	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
Poynette		
WIBU	1210	100
Racine		
WRJN	1370	100
Sheboygan		
WHBL	1410	500

Stevens Point		
WLBL	900	2500
Superior		
WEBC	1290	1000 N

WYOMING

Casper		
KDFN	1440	500
Sheridan		
KWYO	1370	100

CANADA

ALBERTA

Calgary		
CFAC	930	100 F
CFCN	1030	10000
CJCJ	690	100 F
Edmonton		
CFRN	1260	100 F
CJCA	730	1000 F
CKUA	580	500
Lethridge		
CJOC	1230	100 F

BRITISH COLUMBIA

Chilliwack		
CHWK	780	100 F
Kamloops		
CFJC	880	100 F
Kelewna		
CKOV	630	100 F
Prince Rupert		
CFPR	580	50
Trail		
CJAT	910	250 F
Vancouver		
CJOR	600	500
CKCD	1010	100
CKFC	1410	50
CKMO	1410	100 F
CKWX	1010	100 F
CRCV	1100	500 F
Victoria		
CFCT	1450	75

MANITOBA

Brandon		
CKX	1120	100 F
Winnipeg		
CJRC	580	100 F
CKY	960	15000 F

NEW BRUNSWICK

Fredericton		
CFNB	550	500 F
Moncton		
CKCW	1370	100 F
St. John		
CHSJ	1120	500 F

N. W. TERRITORY

Aklavik		
CJCU	1210	50

NOVA SCOTIA

Glace Bay		
VAS	685	2000
Halifax		
CHNS	930	1000 F

Sydney		
CJCB	1240	1000 F
Wolfville		
CKIC	1010	50
Yarmouth		
CJLS	1310	100

ONTARIO

Brantford		
CKPC	930	100 F
Chatham		
CFCO	630	100 F
Cobalt		
CKMC	1210	50
Fort William		
CKPR	930	100 F
Hamilton		
CHML	1010	100 F
CKOC	1120	500 F
Kingston		
CFRC	1510	100
Kirkland Lake		
CJKL	530	1000
London		
CFPL	730	100 F
North Bay		
CFCH	930	100 F
Ottawa		
CKCO	1010	100 F
CRCO	880	1000 F
Prescott		
CFCL	930	100
St. Catharines		
CKTB	1200	100 F
Sault Ste. Marie		
CJIC	1500	100
Stratford		
CJCS	1210	50
Sudbury		
CKSO	780	1000 F
Timmins		
CKGB	1420	100
Toronto		
CFRB	690	10000 C
CKCL	580	100 F
CRCT	840	5000 N
Waterloo		
CKCR	1510	100
Windsor		
CKLW	1030	5000
CRCW	600	500 F
Wingham		
CKNX	1200	50

PRINCE EDWARD ISLAND

Charlottetown		
CFCY	630	1000 F
CHCK	1310	50
Summerside		
CHGS	1450	50 F

QUEBEC

Chicoutimi		
CRCS	950	100 F
Hull		
CKCH	1210	100 F
Montmagny		
VE9EK	1185	10
Montreal		
CFCH	600	400 N
CHLP	1120	100 F
CKAC	730	5000 C
CRCM	910	5000 F

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

New Carlisle		
CHNC	1410	500 F
Quebec		
CHRC	580	100 F
CKCV	1310	100 F
GKCK	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
CKCK	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
TIGH	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
YNSA	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
XECW	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
XEW	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
XEFL	1150	500
XEMO	860	5000

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
XEY	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
CMHX	760	500

Crucos

CMHK	1330	250
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Havana

CMBC	940	500
CMBD	1170	150
CMBG	1140	200
CMBN	880	150
CMBS	770	150
CMBX	1380	500
CMBY	640	150
CMBZ	1000	250
CMCA	1350	250
CMCB	1230	150
CMCD	960	250
CMCF	815	250
CMCG	1255	250
CMCJ	1200	350
CMCN	1500	150
CMCO	1110	250
CMCQ	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	840	500
CMW	600	1000
CMX	920	650

Holguin

CMKF	1460	50
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Manzanillo

CMKM	1120	200
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Matanzas

CMGC	1400	100
CMGF	1120	100
CMGI	1420	50

Sagua la Grande

CMHA	1070	50
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Sancti Spiritus

CMHB	1240	50
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Santa Clara

CMHI	1210	150
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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 Calgary, Alta.	100	CJLS 1310 Yarmouth, N. S.	100	CMBS 770 Havana, Cuba	150
CFCF 600 Montreal, Que.	400	CJOC 1230 Lethbridge, Alta.	100	CMBX 1380 Havana, Cuba	500
CFCH 930 North Bay, Ont.	100	CJOR 600 Vancouver, B. C.	500	CMBY 640 Havana, Cuba	150
CFCN 1030 Calgary, Alta.	10000	CJRC 580 Winnipeg, Man.	100	CMBZ 1000 Havana, Cuba	250
CFCO 630 Chatham, Ont.	100	CJRM 540 Moose Jaw, Sask.	1000	CMCA 1350 Havana, Cuba	250
CFCT 1450 Victoria, B. C.	75	CKAC 730 Montreal, Que.	5000	CMCB 1230 Havana, Cuba	150
CFCY 630 Charlottetown, P.E.I.	1000	CKBI 1210 Prince Albert, Sask.	100	CMCD 960 Havana, Cuba	250
CFJC 880 Kamloops, B. C.	100	CKCD 1010 Vancouver, B. C.	100	CMCF 815 Havana, Cuba	250
CFLC 930 Prescott, Ont.	100	CKCH 1210 Hull, Que.	100	CMCG 1255 Havana, Cuba	250
CFNB 550 Fredericton, N. B.	500	CKCK 1010 Regina, Sask.	500	CMCJ 1200 Havana, Cuba	350
CFPL 730 London, Ont.	100	CKCL 580 Toronto, Ont.	100	CMCN 1500 Havana, Cuba	150
CFPR 580 Prince Rupert, B. C.	50	CKCO 1010 Ottawa, Ont.	100	CMCO 1110 Havana, Cuba	250
CFQC 840 Saskatoon, Sask.	1000	CKCR 1510 Waterloo, Ont.	100	CMCQ 680 Havana, Cuba	250
CFRB 690 Toronto, Ont.	10000	CKCV 1310 Quebec, Que.	100	CMCR 1410 Havana, Cuba	150
CFRC 1510 Kingston, Ont.	100	CKCW 1370 Moncton, N. B.	100	CMCU 1280 Havana, Cuba	150
CFRN 1260 Edmonton, Alta.	100	CKFC 1410 Vancouver, B. C.	50	CMCW 750 Havana, Cuba	150
CHAB 1200 Moose Jaw, Sask.	100	CKGB 1420 Timmins, Ont.	100	CMCX 660 Havana, Cuba	150
CHCK 1310 Charlottetown, P.E.I.	50	CKIC 1010 Wolfville, N. S.	50	CMCY 1030 Havana, Cuba	1000
CHGS 1450 Summerside, P.E.I.	50	CKLW 1030 Windsor, Ont.	5000	CMCG 1400 Matanzas, Cuba	100
CHLP 1120 Montreal, Que.	100	CKMC 1210 Cobalt, Ont.	50	CMGE 1370 Cardenas, Cuba	50
CHML 1010 Hamilton, Ont.	100	CKMO 1410 Vancouver, B. C.	100	CMGF 1120 Matanzas, Cuba	100
CHNC 1410 New Carlisle, Que.	500	CKNX 1200 Wingham, Ont.	50	CMGI 1420 Matanzas, Cuba	50
CHNS 930 Halifax, N. S.	1000	CKOC 1120 Hamilton, Ont.	500	CMHA 1070 Sagua la Grande, Cu.	50
CHRC 580 Quebec, Que.	100	CKOV 630 Kelowna, B. C.	100	CMHB 1240 Sancti Spiritus, Cuba	50
CHSJ 1120 St. John, N. B.	500	CKPC 930 Brantford, Ont.	100	CMHD 1270 Caibarien, Cuba	250
CHWC 1010 Regina, Sask.	500	CKPR 930 Fort William, Ont.	100	CMHI 1210 Santa Clara, Cuba	150
CHWK 780 Chilliwack, B. C.	100	CKSO 780 Sudbury, Ont.	1000	CMHJ 1160 Cienfuegos, Cuba	100
CJAT 910 Trail, B. C.	250	CKTB 1200 St. Catherines, Ont.	100	CMHK 1330 Cruces, Cuba	250
CJCA 730 Edmonton, Alta.	1000	CKUA 580 Edmonton, Alta.	500	CMHW 810 Cienfuegos, Cuba	100
CJCB 1240 Sydney, N. S.	1000	CKWX 1010 Vancouver, B. C.	100	CMHX 760 Cienfuegos, Cuba	500
CJCJ 690 Calgary, Alta.	100	CKX 1120 Brandon, Man.	100	CMJA 1010 Camaguey, Cuba	300
CJCS 1210 Stratford, Ont.	50	CKY 960 Winnipeg, Man.	15000	CMJC 1390 Camaguey, Cuba	150
CJCU 1210 Aklavik, N. W. T.	50	CMBC 940 Havana, Cuba	500	CMJE 1220 Camaguey, Cuba	50
CJGX 630 Yorktown, Sask.	500	CMBD 1170 Havana, Cuba	150	CMJF 1150 Camaguey, Cuba	200
CJIC 1500 St. Ste. Marie, Ont.	100	CMBG 1140 Havana, Cuba	200	CMJH 1360 Ciego de Avila, Cuba	100
CJKL 530 Kirkland Lake, Ont.	1000	CMBN 880 Havana, Cuba	150	CMJI 1130 Ciego de Avila, Cuba	50

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJK 780 Camaguey, Cuba	250	KALE 1300 Portland, Ore.	500	KFJM 1370 Grand Forks, N. D.	100
CMJL 1340 Camaguey, Cuba	100	KARK 890 Little Rock, Ark.	250	KFJR 1380 Portland, Ore.	500
CMJO 1180 Ciego de Avila, Cuba	50	KASA 1210 Eik City, Okla.	100	KFJZ 1370 Fort Worth, Texas	100
CMJP 1430 Camaguey, Cuba	100	KAST 1370 Astoria, Ore.	100	KFKA 880 Greeley, Colo.	500
CMK 1060 Havana, Cuba	250	KBPS 1420 Portland, Ore.	100	KFKU 1220 Lawrence, Kans.	1000
CMKC 1250 Santiago, Cuba	150	KBTM 1200 Jonesboro, Ark.	100	KFNF 890 Shenandoah, Iowa	500
CMKD 1050 Santiago, Cuba	250	KCMC 1420 Texarkana, Ark.	100	KFOR 1210 Lincoln, Neb.	100
CMKF 1460 Holguin, Cuba	50	KCRC 1360 Enid, Okla.	250	KFOX 1250 Long Beach, Calif.	1000
CMKM 1120 Manzanillo, Cuba	200	KCRJ 1310 Jerome, Ariz.	100	KFPL 1310 Dublin, Texas	100
CMKR 1400 Santiago, Cuba	100	KDB 1500 Santa Barbara, Calif.	100	KFPW 1210 Fort Smith, Ark.	100
CMKV 1190 Santiago, Cuba	50	KDFN 1440 Casper, Wyo.	500	KFPY 890 Spokane, Wash.	1000
CMOA 790 Havana, Cuba	150	KDKA 980 Pittsburgh, Pa.	50000	KFQD 780 Anchorage, Alaska	250
CMOK 1470 Havana, Cuba	150	KDLR 1210 Devils Lake, N. D.	100	KFRC 610 San Francisco, Calif.	1000
CMOX 1320 Havana, Cuba	250	KDON 1210 Del Monte, Calif.	100	KFRO 1370 Longview, Texas	100
CMQ 840 Havana, Cuba	500	KDYL 1290 Salt Lake City, Utah	1000	KFRU 630 Columbia, Mo.	500
CMW 680 Havana, Cuba	1000	KECA 1430 Los Angeles, Calif.	1000	KFSB 600 San Diego, Calif.	1000
CMX 920 Havana, Cuba	650	KELD 1370 El Dorado, Ark.	100	KFSG 1120 Los Angeles, Calif.	500
CRCK 1050 Quebec, Que.	1000	KELW 780 Burbank, Calif.	500	KFUO 550 St. Louis, Mo.	500
CRCM 910 Montreal, Que.	5000	KERN 1370 Bakersfield, Calif.	100	KFVD 1900 Los Angeles, Calif.	250
CRCO 880 Ottawa, Ont.	1000	KEX 1180 Portland, Ore.	5000	KFVS 1210 Cape Girardeau, Mo.	100
CRCS 950 Chicoutimi, Que.	100	KFAB 770 Lincoln, Neb.	10000	KFWB 950 Hollywood, Calif.	1000
CRCT 840 Toronto, Ont.	5000	KFAC 1300 Los Angeles, Calif.	1000	KFXD 1200 Nampa, Idaho	100
CRCV 1100 Vancouver, B. C.	500	KFBB 1280 Great Falls, Mont.	1000	KFXJ 1200 Grand Jet., Colo.	100
CRCW 600 Windsor, Ont.	500	KFBI 1950 Abilene, Kans.	5000	KFXM 1210 San Bernardino, Calif.	100
FQN 609 St. Pierre, Mtq.	250	KFBK 1490 Sacramento, Calif.	5000	KFXR 1310 Oklahoma City, Okla.	100
HHK 920 Port-au-Prince, Haiti	1000	KFDM 560 Beaumont, Texas	500	KFYO 1310 Lubbock, Texas	100
HIH 1395 San Pedro de M., D.R.	15	KFDY 780 Brookings, S. D.	1000	KFYR 550 Bismarck, N. D.	1000
HIJ 1195 Santo Domingo, D. R.	15	KFEL 920 Denver, Colo.	500	KGA 1470 Spokane, Wash.	5000
HIX 800 Santo Domingo, D. R.	700	KFEQ 680 St. Joseph, Mo.	2500	KGAR 1370 Tucson, Ariz.	100
HIZ 1300 Santo Domingo, D. R.	10	KFGQ 1370 Boone, Iowa	100	KGB 1330 San Diego, Calif.	1000
HP50 1440 Colon, Panama	25	KFH 1300 Wichita, Kans.	1000	KGBU 900 Ketchikan, Alaska	500
HRN 1270 Tegucigalpa, Hond.	100	KFI 640 Los Angeles, Calif.	50000	KGBX 1230 Springfield, Mo.	500
KABC 1420 San Antonio, Texas	100	KFIO 1120 Spokane, Wash.	100	KGBZ 930 York, Neb.	1000
KABR 1420 Aberdeen, S. Dak.	100	KFIZ 1420 Fond du Lac, Wis.	100	KGCA 1270 Decorah, Iowa	100
KADA 1200 Ada, Okla.	100	KFJB 1200 Marshalltown, Iowa	100	KCCU 1240 Mandan, N. D.	250
KALB 1420 Alexandria, La.	100	KFJI 1210 Klamath Falls, Ore.	100	KCCX 1310 Wolf Point, Mont.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

KGDE 1200 Fergus Falls, Minn.	100	KHJ 900 Los Angeles, Calif.	1000	KMTR 570 Hollywood, Calif.	1000
KGDM 1100 Stockton, Calif.	1000	KHQ 590 Spokane, Wash.	1000	KNEL 1500 Brady, Texas	100
KGDY 1340 Huron, S. D.	250	KHSL 950 Chico, Calif.	250	KNET 1420 Palestine, Texas	100
KGEK 1200 Sterling, Colo.	100	KICA 1370 Clovis, N. M.	100	KNOW 1500 Austin, Texas	100
KGER 1360 Long Beach, Calif.	1000	KID 1320 Idaho Falls, Idaho	250	KNX 1050 Hollywood, Calif.	5000
KGEZ 1310 Kalispell, Mont.	100	KIDO 1350 Boise, Idaho	1000	KOA 830 Denver, Colo.	5000
KGFF 1420 Shawnee, Okla.	100	KIDW 1420 Lamar, Colo.	100	KOAC 550 Corvallis, Ore.	1000
KGFG 1370 Oklahoma City, Okla.	100	KIEM 1450 Eureka, Calif.	500	KOB 1180 Albuquerque, N. M.	10000
KGFI 1500 Corpus Christi, Texas	100	KIEV 850 Glendale, Calif.	100	KOH 1380 Reno, Nev.	500
KGfJ 1200 Los Angeles, Calif.	100	KINY 1310 Juneau, Alaska	100	KOIL 1260 Council Bluffs, Iowa	1000
KGFK 1500 Moorhead, Minn.	100	KIRO 710 Seattle, Wash.	500	KOIN 940 Portland, Ore.	1000
KGFL 1370 Roswell, N. M.	100	KIT 1310 Yakima, Wash.	100	KOL 1270 Seattle, Wash.	1000
KGFW 1310 Kearney, Neb.	100	KIUJ 1310 Santa Fe, N. Mex.	100	KOMA 1480 Oklahoma City, Okla.	5000
KGFX 630 Pierre, S. D.	200	KIUL 1210 Garden City, Kans.	100	KOMO 920 Seattle, Wash.	1000
KGGC 1420 San Francisco, Calif.	100	KIUN 1420 Pecos, Texas	100	KONO 1370 San Antonio, Texas	100
KGGF 1010 Coffeyville, Kans.	1000	KIUP 1370 Durango, Colo.	100	KOOS 1390 Marshfield, Ore.	250
KGGM 1230 Albuquerque, N. M.	250	KJBS 1070 San Francisco, Calif.	500	KORE 1420 Eugene, Ore.	100
KGHF 1320 Pueblo, Colo.	500	KJR 970 Seattle, Wash.	5000	KOTN 1500 Pine Bluffs, Ark.	100
KGHI 1290 Little Rock, Ark.	100	KLCN 1290 Blytheville, Ark.	100	KOY 1390 Phoenix, Ariz.	500
KGHL 780 Billings, Mont.	1000	KLO 1400 Ogden, Utah	500	KPAC 1260 Port Arthur, Texas	500
KGIR 1340 Butte, Mont.	1000	KLPM 1240 Minot, N. D.	250	KPJM 1500 Prescott, Ariz.	100
KGIW 1420 Alamosa, Colo.	100	KLRA 1390 Little Rock, Ark.	1000	KPLC 1500 Lake Charles, La.	100
KGKB 1500 Tyler, Texas	100	KLS 1440 Oakland, Calif.	250	KPO 680 San Francisco, Calif.	5000
KGKL 1370 San Angelo, Texas	100	KLUF 1370 Galveston, Texas	100	KPOF 880 Denver, Colo.	500
KGKO 570 Wichita Falls, Texas	250	KLX 880 Oakland, Calif.	1000	KPPC 1210 Pasadena, Calif.	50
KGKY 1500 Scottsbluff, Neb.	100	KLZ 560 Denver, Colo.	1000	KPQ 1500 Wenatchee, Wash.	100
KGMB 1320 Honolulu, T. H.	1000	KMA 930 Shenandoah, Iowa	1000	KPRC 920 Houston, Texas	1000
KGNC 1410 Amarillo, Texas	1000	KMAC 1370 San Antonio, Texas	100	KQV 1380 Pittsburgh, Pa.	500
KGNF 1430 North Platte, Neb.	1000	KMBC 950 Kansas City, Mo.	1000	KQW 1010 San Jose, Calif.	1000
KGNO 1340 Dodge City, Kans.	250	KMED 1310 Medford, Ore.	100	KRE 1370 Berkeley, Calif.	100
KGO 790 San Francisco, Calif.	7500	KMJ 580 Fresno, Calif.	1000	KREG 1500 Santa Ana, Calif.	100
KGU 750 Honolulu, T. H.	2500	KMLB 1200 Monroe, La.	100	KRGV 1260 Weslaco, Texas	500
KGVO 1260 Missoula, Mont.	1000	KMMJ 740 Clay Center, Neb.	1000	KRRD 1120 Los Angeles, Calif.	500
KGW 620 Portland, Ore.	1000	KMO 1330 Tacoma, Wash.	250	KRKO 1370 Everett, Wash.	50
KGY 1210 Olympia, Wash.	100	KMOX 1090 St. Louis, Mo.	50000	KRLC 1420 Lewiston, Idaho	100
KHBC 1420 Hilo, T. H.	100	KMPC 710 Beverly Hills, Calif.	500	KRLD 1040 Dallas, Texas	10000

NORTH AMERICAN B. C. STATIONS BY CALLS

KRLH 1420 Midland, Texas	100	KVOA 1260 Tucson, Ariz.	500	VESEK 1185 Montmagny, Que.	10
KRMD 1310 Shreveport, La.	100	KVOD 920 Denver, Colo.	500	VOAC 1065 St. John's, Nfld.	40
KRRR 1500 Roseburg, Ore.	100	KVOL 1310 Lafayette, La.	100	VOAS 940 St. John's, Nfld.	100
KRNT 1320 Des Moines, Iowa	500	KVOO 1140 Tulsa, Okla.	25000	VOGY 840 St. John's, Nfld.	400
KROC 1310 Rochester, Minn.	100	KVOR 1270 Colorado Spgs., Colo.	1000	VONF 1195 St. John's, Nfld.	500
KROW 930 Oakland, Calif.	1000	KVOS 1200 Bellingham, Wash.	100	VOWR 681 St. John's, Nfld.	500
KRSC 1120 Seattle, Wash.	100	KVSO 1210 Ardmore, Okla.	100	WAAB 1410 Boston, Mass.	500
KSAC 580 Manhattan, Kans.	500	KWBG 1420 Hutchinson, Kans.	100	WAFF 920 Chicago, Ill.	1000
KSCJ 1330 Sioux City, Iowa	1000	KWG 1200 Stockton, Calif.	100	WAAT 940 Jersey City, N. J.	500
KSD 550 St. Louis, Mo.	1000	KWJJ 1040 Portland, Ore.	500	WAAW 660 Omaha, Neb.	500
KSEI 900 Pocatello, Idaho	250	KWK 1350 St. Louis, Mo.	1000	WABC 860 New York, N. Y.	50000
KSFO 560 San Francisco, Calif.	1800	KWKC 1370 Kansas City, Mo.	100	WABI 1200 Bangor, Maine	100
KSL 1130 Salt Lake City, Utah	50000	KWKH 1100 Shreveport, La.	10000	WABY 1370 Albany, N. Y.	100
KSLM 1370 Salem, Ore.	100	KWLC 1270 Decorah, Iowa	180	WACO 1420 Waco, Texas	100
KSO 1430 Des Moines, Iowa	500	KWSC 1220 Pulman, Wash.	1800	WADC 1320 Akron, Ohio.	1000
KSOO 1110 Sioux Falls, S. D.	2500	KWTN 1210 Watertown, S. D.	100	WAGF 1370 Dothan, Ala.	100
KSTP 1460 St. Paul, Minn.	25000	KWTO 560 Springfield, Mo.	5000	WAGM 1420 Presque Isle, Me.	100
KSUN 1200 Lowell, Ariz.	100	KWYO 1370 Sheridan, Wyo.	100	WAIM 1200 Anderson, S. C.	180
KTAR 620 Phoenix, Ariz.	1000	KXA 760 Seattle, Wash.	250	WAIU 640 Columbus, Ohio	500
KTAT 1240 Fort Worth, Texas	1000	KXL 1420 Portland, Ore.	100	WALA 1380 Mobile, Ala.	500
KTBS 1450 Shreveport, La.	1000	KXO 1500 El Centro, Calif.	100	WALR 1210 Zanesville, Ohio	100
KRFI 1240 Twin Falls, Idaho	1000	KXRO 1310 Aberdeen, Wash.	100	WAML 1310 Laurel, Miss.	100
KTHS 1060 Hot Springs, Ark.	10800	KXYZ 1440 Houston, Texas	1000	WAPI 1140 Birmingham, Ala.	5000
KTM 780 Los Angeles, Calif.	500	KYA 1230 San Francisco, Calif.	1000	WARD 1460 Brooklyn, N. Y.	500
KTRB 740 Modesto, Calif.	250	KYW 1020 Philadelphia, Pa.	10000	WASH 1270 Grand Rapids, Mich.	500
KTRH 1290 Houston, Texas	1000	NAA 690 Arlington, Va.	1008	WATR 1190 Waterbury, Conn.	100
KTSA 550 San Antonio, Texas	1000	RDN 680 San Salvador, E. S.	500	WAVE 940 Louisville, Ky.	1000
KTSM 1310 El Paso, Texas	100	TGW 1210 Guatemala, Gua.	10000	WAWZ 1350 Zarephath, N. J.	500
KTUL 1400 Tulsa, Okla.	500	TGX 1400 Guatemala City	250	WAZL 1420 Hasleton, Pa.	100
KTW 1220 Seattle, Wash.	1000	TIEP 850 San Jose, C. R.	500	WBAA 890 West Lafayette, Ind.	1000
KUJ 1370 Walla Walla, Wash.	100	TIFA 1050 San Jose, C. R.	75	WBAL 1060 Baltimore, Md.	10000
KUMA 1420 Yuma, Ariz.	100	TIFS 1441 Cartago, C. R.	7.5	WBAP 800 Fort Worth, Texas	50000
KUOA 1260 Fayetteville, Ark.	1000	TIGA 1014 Cartago, C. R.	30	WBAX 1210 Wilkes-Barre, Pa.	100
KUSD 890 Vermillion, S. D.	500	TIGH 1000 San Jose, C. R.	500	WBBC 1400 Brooklyn, N. Y.	500
KVI 570 Tacoma, Wash.	1000	TIRH 930 San Jose, C. R.	50	WBBL 1210 Richmond, Va.	100
KVL 1370 Seattle, Wash.	100	VAS 685 Glace Bay, N. S.	2000	WBBM 770 Chicago, Ill.	50000

NORTH AMERICAN B. C. STATIONS BY CALLS

WBBR 1300 Brooklyn, N. Y.	1000	WCFL 970 Chicago, Ill.	5000	WEED 1420 Rocky Mount, N. C.	100
WBBZ 1200 Ponca City, Okla.	100	WCBS 580 Charleston, W. Va.	500	WEEL 590 Boston, Mass.	1000
WBCM 1410 Bay City, Mich.	500	WCCKY 1490 Covington, Ky.	5000	WEUU 830 Reading, Pa.	1000
WBEN 900 Buffalo, N. Y.	1000	WCLO 1200 Janesville, Wis.	100	WEHC 1420 Charlottesville, Va.	100
WBEO 1310 Marquette, Mich.	100	WCLS 1310 Joliet, Ill.	100	WEHS 1420 Cicero, Ill.	100
WBIG 1440 Greensboro, N. C.	500	WCMI 1310 Ashland, Ky.	100	WELI 900 New Haven, Conn.	500
WBNO 1200 New Orleans, La.	100	WCNW 1500 Brooklyn, N. Y.	100	WELL 1420 Battle Creek, Mich.	100
WBNS 1430 Columbus, Ohio	500	WCOA 1340 Pensacola, Fla.	500	WEMP 1310 Milwaukee, Wis.	100
WBNX 1350 New York, N. Y.	250	WCOC 880 Meridian, Miss.	500	WENR 870 Chicago, Ill.	50000
WBNY 1370 Buffalo, N. Y.	100	WCOL 1210 Columbus, Ohio	100	WESG 850 Elmira, N. Y.	1000
WBOQ 860 New York, N. Y.	50000	WCOP 1120 Boston, Mass.	500	WEST 1200 Easton, Pa.	100
WBOV 1310 Terre Haute, Ind.	100	WCPO 1200 Cincinnati, Ohio	100	WEVD 1300 New York, N. Y.	1000
WBRB 1210 Red Bank, N. J.	100	WCRW 1210 Chicago, Ill.	100	WEW 760 St. Louis, Mo.	1000
WBRC 930 Birmingham, Ala.	1000	WCSC 1360 Charleston, S. C.	500	WEXL 1310 Royal Oak, Mich.	50
WBRE 1310 Wilkes-Barre, Pa.	100	WCSH 940 Portland, Me.	1000	WFAA 800 Dallas, Texas	50000
WBSO 920 Babson Park, Mass.	500	WDAE 1220 Tampa, Fla.	1000	WFAB 1300 New York, N. Y.	1000
WBT 1080 Charlotte, N. C.	50000	WDAF 610 Kansas City, Mo.	1000	WFAM 1200 South Bend, Ind.	100
WBTV 1370 Danville, Va.	100	WDAH 1310 El Paso, Texas	100	WFAS 1210 White Plains, N. Y.	100
WBZ 990 Boston, Mass.	50000	WDAS 1370 Philadelphia, Pa.	100	WFBC 1300 Greenville, S. C.	1000
WBZA 990 Springfield, Mass.	1000	WDAY 940 Fargo, N. D.	1000	WFBG 1310 Altoona, Pa.	100
WCAC 600 Storrs, Conn.	500	WDBJ 930 Roanoke, Va.	1000	WFBL 1360 Syracuse, N. Y.	1000
WCAD 1220 Canton, N. Y.	500	WDBO 580 Orlando, Fla.	1000	WFBM 1230 Indianapolis, Ind.	1000
WCAE 1220 Pittsburgh, Pa.	1000	WDEL 1120 Wilmington, Del.	250	WFBR 1270 Baltimore, Md.	500
WCAL 1250 Northfield, Minn.	1000	WDEV 550 Waterbury, Vt.	500	WDFD 1310 Flint, Mich.	100
WCAM 1280 Camden, N. J.	500	WDGY 1180 Minneapolis, Minn.	1000	WFEA 1340 Manchester, N. H.	500
WCAO 600 Baltimore, Md.	500	WDNC 1500 Durham, N. C.	100	WFIL 560 Philadelphia, Pa.	1000
WCAP 1280 Asbury Park, N. J.	500	WDOD 1280 Chattanooga, Tenn.	1000	WFLA 620 Clearwater, Fla.	1000
WCAT 1200 Rapid City, S. D.	100	WDRG 1330 Hartford, Conn.	1000	WFMD 900 Frederick, Md.	500
WCAU 1170 Philadelphia, Pa.	50000	WDSU 1250 New Orleans, La.	1000	WGAL 1500 Lancaster, Pa.	100
WCAX 1200 Burlington, Vt.	100	WDZ 1070 Tuscola, Ill.	100	WGAR 1450 Cleveland, Ohio	500
WCAZ 1070 Carthage, Ill.	100	WEAF 660 New York, N. Y.	50000	WGBB 1210 Freeport, N. Y.	100
WCBA 1440 Allentown, Pa.	500	WEAN 780 Providence, R. I.	500	WGBF 630 Evansville, Ind.	500
WCBD 1080 Waukegan, Ill.	5000	WECB 1290 Superior, Wis.	1000	WGBI 880 Scranton, Pa.	500
WCBM 1370 Baltimore, Md.	100	WEBQ 1210 Harrisburg, Ill.	100	WGCM 1210 Gulfport, Miss.	100
WCBS 1420 Springfield, Ill.	100	WEBR 1310 Buffalo, N. Y.	100	WGES 1360 Chicago, Ill.	500
WCCO 810 Minneapolis, Minn.	50000	WEDC 1210 Chicago, Ill.	100	WGH 1310 Newport News, Va.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WGL 1370 Fort Wayne, Ind.	100	WIBA 1280 Madison, Wis.	1000	WJSV 1460 Washington, D. C.	10000
WGN 720 Chicago, Ill.	50000	WIBG 970 Glenside, Pa.	100	WJTL 1370 Atlanta, Ga.	100
WGNV 1210 Chester, N. Y.	100	WIBM 1370 Jackson, Mich.	100	WJW 1210 Akron, Ohio	100
WGPC 1420 Albany, Ga.	100	WIBU 1210 Poynette, Wis.	100	WJZ 760 New York, N. Y.	50000
WGR 550 Buffalo, N. Y.	1000	WIBW 580 Topeka, Kans.	1000	WKAQ 1240 San Juan, P. R.	1000
WGST 890 Atlanta, Ga.	500	WIBX 1200 Utica, N. Y.	100	WKAR 850 East Lansing, Mich.	1000
WGY 790 Schenectady, N. Y.	50000	WICC 680 Bridgeport, Conn.	500	WKBB 1500 East Dubuque, Ill.	100
WHA 940 Madison, Wis.	1000	WIL 1200 St. Louis, Mo.	100	WKBH 1380 LaCrosse, Wis.	1000
WHAM 1150 Rochester, N. Y.	50000	WILL 890 Urbana, Ill.	250	WKBI 1420 Cicero, Ill.	100
WHAS 820 Louisville, Ky.	50000	WILM 1420 Wilmington, Del.	100	WKBN 570 Youngstown, Ohio	500
WHAT 1310 Philadelphia, Pa.	100	WIND 560 Gary, Ind.	1000	WKBO 1200 Harrisburg, Pa.	100
WHAZ 1300 Troy, N. Y.	500	WINS 1180 New York, N. Y.	1000	WKBY 1500 Richmond, Ind.	100
WHB 860 Kansas City, Mo.	1000	WIOD 1300 Miami, Fla.	1000	WKBW 1480 Buffalo, N. Y.	5000
WHBB 1500 Selma, Alabama	100	WIP 610 Philadelphia, Pa.	1000	WKBZ 1500 Muskegon, Mich.	100
WHBC 1200 Canton, Ohio	100	WIRE 1400 Indianapolis, Ind.	500	WKEU 1500 Griffin, Ga.	100
WHBF 1210 Rock Island, Ill.	100	WIS 1010 Columbia, S. C.	500	WKOK 1210 Sunbury, Pa.	100
WHBI 1250 Newark, N. J.	1000	WISN 1120 Milwaukee, Wis.	250	WKRC 550 Cincinnati, Ohio	1000
WHBL 1410 Sheboygan, Wis.	500	WJAC 1310 Johnstown, Pa.	100	WKY 900 Oklahoma City, Okla.	1000
WHBQ 1370 Memphis, Tenn.	100	WJAG 1060 Norfolk, Neb.	1000	WKZO 590 Kalamazoo, Mich.	1000
WHBU 1210 Anderson, Ind.	100	WJAR 890 Providence, R. I.	500	WLAC 1470 Nashville, Tenn.	5000
WHBY 1200 Green Bay, Wis.	100	WJAS 1290 Pittsburgh, Pa.	1000	WLAP 1420 Lexington, Ky.	100
WHDF 1370 Calumet, Mich.	100	WJAX 900 Jacksonville, Fla.	1000	WLB 1250 Minneapolis, Minn.	1000
WHDH 830 Boston, Mass.	1000	WJAY 610 Cleveland, Ohio	500	WLBC 1310 Muncie, Ind.	100
WHDL 1420 Olean, N. Y.	100	WJBC 1200 Bloomington, Ill.	100	WLBF 1420 Kansas City, Kans.	100
WHEB 740 Portsmouth, N. H.	250	WJBK 1500 Detroit, Mich.	100	WLBI 900 Stevens Point, Wis.	2500
WHEC 1430 Rochester, N. Y.	500	WJBL 1260 Decatur, Ill.	100	WLBS 620 Bangor, Me.	500
WHEF 1500 Kosciusko, Miss.	100	WJBO 1420 Baton Rouge, La.	100	WLEU 1420 Erie, Pa.	100
WHFC 1420 Cicero, Ill.	100	WJBR 1420 Gastonia, N. C.	100	WLLH 1370 Lowell, Mass.	100
WHIO 1260 Dayton, Ohio	1000	WJBW 1200 New Orleans, La.	100	WLNH 1310 Laconia, N. H.	100
WHIS 1410 Bluefield, W. Va.	250	WJBY 1210 Gadsden, Ala.	100	WLS 870 Chicago, Ill.	50000
WHJB 620 Greensburg, Pa.	250	WJDX 1270 Jackson, Miss.	1000	WLTH 1400 Brooklyn, N. Y.	500
WHK 1390 Cleveland, Ohio	1000	WJEJ 1210 Hagerstown, Md.	100	WLVA 1200 Lynchburg, Va.	100
WHN 1010 New York, N. Y.	1000	WJIM 1210 Lansing, Mich.	100	WLW 700 Cincinnati, Ohio	50000
WHO 1000 Des Moines, Iowa	50000	WJJD 1130 Chicago, Ill.	20000	WLWL 1100 New York, N. Y.	5000
WHOM 1450 Jersey City, N. J.	250	WJMS 1420 Ironwood, Mich.	100	WMAL 630 Washington, D. C.	250
WHP 1430 Harrisburg, Pa.	500	WJR 750 Detroit, Mich.	50000	WMAQ 670 Chicago, Ill.	50000

NORTH AMERICAN B. C. STATIONS BY CALLS

WMAS 1420 Springfield, Mass.	100	WNRI 1200 Newport, R. I.	100	WRAX 920 Philadelphia, Pa.	250
WMAZ 1180 Macon, Ga.	1000	WNYC 810 New York, N. Y.	1000	WRBL 1200 Columbus, Ga.	100
WMBC 1420 Detroit, Mich.	100	WOAI 1190 San Antonio, Texas	50000	WRC 950 Washington, D. C.	500
WBMD 1440 Peoria, Ill.	500	WOC 1378 Davenport, Iowa	100	WRDO 1370 Augusta, Me.	100
WMBG 1210 Richmond, Va.	100	WOCL 1210 Jamestown, N. Y.	50	WRDW 1500 Augusta, Ga.	100
WMBH 1420 Joplin, Mo.	100	WOI 640 Ames, Iowa	5000	WREC 600 Memphis, Tenn.	1000
WMBI 1080 Chicago, Ill.	5000	WOKO 1430 Albany, N. Y.	500	WREN 1220 Lawrence, Kans.	1000
WMBO 1310 Auburn, N. Y.	100	WOL 1310 Washington, D. C.	100	WRGA 1500 Rome, Ga.	100
WMBQ 1500 Brooklyn, N. Y.	100	WOMT 1210 Manitowoc, Wis.	100	WRJN 1370 Racine, Wis.	100
WMBR 1370 Jacksonville, Fla.	100	WOOD 1270 Grand Rapids, Mich.	500	WROK 1410 Rockford, Ill.	500
WMC 780 Memphis, Tenn.	1000	WOPI 1500 Bristol, Tenn.	100	WROL 1310 Knoxville, Tenn.	100
WMCA 570 New York, N. Y.	500	WOR 710 Newark, N. J.	50000	WRR 1280 Dallas, Texas	500
WMEX 1500 Boston, Mass.	100	WORC 1280 Worcester, Mass.	500	WRUF 830 Gainesville, Fla.	5000
WMFD 1370 Wilmington, N. C.	100	WORK 1320 York, Pa.	1000	WRVA 1110 Richmond, Va.	5000
WMFF 1310 Plattsburg, N. Y.	100	WOS 630 Jefferson City, Mo.	500	WSAI 1330 Cincinnati, Ohio	1000
WMFG 1210 Hibbing, Minn.	100	WOSU 570 Columbus, Ohio	750	WSAJ 1310 Grove City, Pa.	100
WMFJ 1420 Daytona Beach, Fla.	100	WOV 1130 New York, N. Y.	1000	WSAN 1440 Allentown, Pa.	500
WMFN 1210 Clarksdale, Miss.	100	WOW 590 Omaha, Neb.	1000	WSAR 1350 Fall River, Mass.	1000
WMFO 1370 Decatur, Ala.	100	WOWO 1160 Fort Wayne, Ind.	10000	WSAY 1210 Rochester, N. Y.	100
WMFR 1200 High Point, N. C.	100	WPAD 1420 Paducah, Ky.	100	WSAZ 1190 Huntington, W. Va.	1000
WMMN 890 Fairmount, W. Va.	500	WPAR 1420 Parkersburg, W. Va.	100	WSB 748 Atlanta, Ga.	50000
WMPC 1200 Lapeer, Mich.	100	WPAX 1210 Thomasville, Ga.	250	WSBC 1210 Chicago, Ill.	100
WMT 608 Cedar Rapids, Iowa	1000	WPAY 1370 Portsmouth, Ohio	100	WSBT 1360 South Bend, Ind.	500
WNAC 1230 Boston, Mass.	1000	WPEN 920 Philadelphia, Pa.	250	WSFA 1410 Montgomery, Ala.	500
WNAD 1010 Norman, Okla.	1000	WPFB 1370 Hattiesburg, Miss.	100	WSGN 1310 Birmingham, Ala.	100
WNAX 570 Yankton, S. D.	1000	WPG 1100 Atlantic City, N. J.	5000	WSIX 1210 Springfield, Tenn.	100
WNBC 1380 New Britain, Conn.	250	WPHR 880 Petersburg, Va.	500	WSJS 1310 Winston-Salem, N. C.	100
WNBF 1500 Binghamton, N. Y.	100	WPRO 638 Providence, R. I.	250	WSM 650 Nashville, Tenn.	50000
WNBH 1310 New Bedford, Mass.	100	WPRP 1428 Ponce, P. R.	100	WSMB 1320 New Orleans, La.	500
WNBR 1430 Memphis, Tenn.	500	WPTF 680 Raleigh, N. C.	5000	WSMK 1380 Dayton, Ohio	200
WNBX 1260 Springfield, Vt.	1000	WQAM 560 Miami, Fla.	1800	WSOC 1210 Charlotte, N. C.	100
WNBZ 1290 Saranac Lake, N. Y.	100	WQAN 880 Scranton, Pa.	250	WSPA 920 Spartanburg, S. C.	1000
WNEL 1290 San Juan, P. R.	500	WQBC 1360 Vicksburg, Miss.	1000	WSPD 1340 Toledo, Ohio	1000
WNEW 1250 Newark, N. J.	1000	WQDM 1370 St. Albans, Vt.	100	WSUI 880 Iowa City, Iowa	500
WNOX 560 Knoxville, Tenn.	1000	WRAC 1370 Williamsport, Pa.	100	WSUN 620 St. Petersburg, Fla.	1000
WNRA 1420 Sheffield, Ala.	100	WRAW 1310 Reading, Pa.	100	WSVA 550 Harrisonburg, Va.	500

NORTH AMERICAN B. C. STATIONS BY CALLS

WSVS 1370	50	XEA 1060	500	XEMO 860	5000
Buffalo, N. Y.		Guadalajara, Jal.		Tijuana, L. C.	
WSYB 1500	100	XEAA 920	200	XEMX 1280	12
Rutland, Vt.		Mexicali, B. C.		Mexico City, D. F.	
WSYR 570	250	XEAF 990	500	XEMZ 1210	250
Syracuse, N. Y.		Nogales, Son.		Tijuana, L. C.	
WTAD 900	500	XEAI 1240	100	XEN 710	1000
Quincy, Ill.		Mexico City, D. F.		Mexico City, D. F.	
WTAG 580	500	XEAJ 1310	15	XENT 910	65000
Worcester, Mass.		Oaxaca, Oax.		Nuevo Laredo, Tams.	
WTAL 1310	100	XEAM 750	7.5	XEOK 760	250
Tallahassee, Fla.		Matamoros, Tams.		Tijuana, L. C.	
WTAM 1070	50000	XEAO 560	250	XEOX 640	500
Cleveland, Ohio		Mexicali, B. C.		Saltillo, Coah.	
WTAQ 1330	1000	XEAS 1160	100	XEP 840	500
Eau Claire, Wis.		Saltillo, Coah.		Mexico City, D. F.	
WTAR 780	500	XEAW 960	50000	XEPN 590	50000
Norfolk, Va.		Reynosa, Tams.		Piedras Negras, Coah.	
WTAW 1120	500	XEAZ 1420	7	XERA 840	250000
College Station, Tex.		Guanajuato, Gto.		Villa Acuna, Coah.	
WTAX 1210	100	XEB 1030	10000	XES 990	250
Springfield, Ill.		Mexico City, D. F.		Tampico, Tams.	
WTBO 800	250	XEC 1160	30	XET 690	500
Cumberland, Md.		Tijuana, B. C.		Monterrey, N. L.	
WTCN 1250	1000	XECW 1310	10	XETB 1310	125
Minneapolis, Minn.		Mexico City, D. F.		Torreón, Coah.	
WTEL 1310	100	XED 1155	2500	XETF 1220	12
Philadelphia, Pa.		Guadalajara, Jal.		Veraacruz, Ver.	
WTFI 1450	500	XEE 1210	50	XETH 1210	100
Athens, Ga.		Durango, Dgo.		Puebla, Pue.	
WTIC 1040	50000	XEFA 1180	500	XETW 820	500
Hartford, Conn.		Mexico City, D. F.		Mexico City, D. F.	
WTJS 1310	100	XEFB 1420	100	XEU 1010	250
Jackson, Tenn.		Monterrey, N. L.		Veraacruz, Ver.	
WTMJ 620	1000	XEFC 560	100	XEW 890	50000
Milwaukee, Wis.		Merida, Yuc.		Mexico City, D. F.	
WTMV 1500	100	XEFE 850	250	XEWZ 1150	100
East St. Louis, Ill.		Laredo, Tams.		Mexico City, D. F.	
WTNJ 1280	500	XEFI 1440	250	XEX 1310	125
Trenton, N. J.		Chihuahua, Chih.		Monterrey, N. L.	
WTOC 1260	1000	XEFJ 1230	100	XEY 1000	10
Savannah, Ga.		Monterrey, N. L.		Merida, Yuc.	
WTRC 1310	100	XEFL 1150	500	KEYZ 780	10000
Elkhart, Ind.		Tijuana, L. C.		Mexico City, D. F.	
WVFW 1400	500	XEFO 940	5000	XEZ 630	500
Brooklyn, N. Y.		Mexico City, D. F.		Merida, Yuc.	
WWAE 1200	100	XEFV 1210	100	XEZZ 1370	100
Hammond, Ind.		Juarez, Chih.		San Luis Potosi, S.L.P.	
WWJ 920	1000	XEFW 1310	250	XFA 1310	5
Detroit, Mich.		Tampico, Tams.		Aguaascalientes, Ags.	
WWL 850	10000	XEFZ 1370	100	XFB 1270	250
New Orleans, La.		Mexico City, D. F.		Jalapa, Ver.	
WWNC 570	1000	XEG 1270	200	XFC 810	350
Asheville, N. C.		Eisenada, B. C.		Aguaascalientes, Ags.	
WWRL 1500	100	XEH 1150	250	XFD 1340	350
Woodside, N. Y.		Monterrey, N. L.		Jalapa, Ver.	
WWSW 1500	100	XEI 1370	125	XFO 940	5000
Pittsburgh, Pa.		Morelia, Mich.		Mexico City, D. F.	
WWVA 1160	5000	XEJ 1020	1000	XFX 610	1000
Wheeling, W. Va.		Juarez, Chih.		Mexico City, D. F.	
WXYZ 1240	1000	XEK 990	100	YNLF 1275	20
Detroit, Mich.		Mexico City, D. F.		Managua, Nicaragua	
W1XBS 1530	1000	XEKL 1240	500	YNOP 1230	100
Waterbury, Conn.		Leon, Guan.		Managua, Nicaragua	
W2XR 1550	1000	XEL 1100	250	YNVA 950	30
Long Island City, N. Y.		Mexico City, D. F.		Managua, Nicaragua	
W6XAI 1550	1000	XELO 1110	10000		
Bakersfield, Calif.		Piedras Negras, Coah.			
W9XBY 1530	1000	XEMA 1080	50		
Kansas City, Mo.		Tampico, Tams.			

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 DJQ VPD VK2ME W3XAL W8XAL W8XK	DJA DJN DJQ VPD VK2ME W8XAL W9XF	W9XF	GSB GSD PCJ VK3LR RV15	DJB DJN GSB GSD JVM PCJ RV15 VK2ME VK3LR	DJB DJN HVJ JVM LKJ1 PCJ RNE RV15 VK2ME VK3LR YDA YDB	DJB DJN GSF GSG JVM LKJ1 RNE Pont. RV15 VK2ME VK3LR YDA YDB	GSF GSG JVM LKJ1 RNE PCJ Pont. RV15 VK2ME VK3LR W1XK W8XAL W8XK YDA YDB	DJA DJB DJE DJN GSG GSG PCJ PHI Pont. RNE W1XK W8XK YDA YDB	DJA DJB DJE DJN GSG GSD GSG HAS3 PCJ PHI Pont. RNE W1XK W8XK W9XAA	DJA DJB DJE DJN GSG GSD GSG HVJ PCJ PHI Pont. RNE W1XK W8XAL W8XK W9XAA	DJA DJB DJE DJN GSG GSD GSG Pont. W1XK W2XE W3XL W8XK W9XAA

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 GSD GSI GSL I2RO ORK W1XK W2XAD W3XAU W8XK W9XAA	CJRO CJRX DJC DJD GSD GSI GSL I2RO ORK W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX CT1AA DJA DJD GSD GSI GSL I2RO Pont. W1XK W2XE W3XAU W8XAL W8XK W9XAA XEBT YV3RC	CHNX CJRO CJRX CT1AA DJA DJD GSD GSI GSL I2RO Pont. W1XK W2XE W3XAU W8XAL W8XK W9XAA XEBT YV3RC	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJC DJN GSA EAQ GSA GSD GSC HBL HJ1ABB GSC GSL HAT4 HJ1ABB HJ1ABB I2RO W1XK W2XAF W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV5RMO	CHNX CEC CJRO CJRX COCO COCH CRCX DJA DJC DJN GSA GSB GSC GSL HJ1ABB HJ1ABB HJ1ABB HP5B I2RO W1XK W2XAF W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO COCH CRCX DJA DJC DJN HCJB HIX HJ1ABB HJ1ABB HJ1ABB HP5B OAX4D PRADO TGWA TGIX W1XK W2XAF W2XE W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO COCH CRCX DJA DJC DJN HCJB HIX HJ1ABB HJ1ABB HJ1ABB HP5B OAX4D PRADO TGWA TGIX W1XK W2XAF W2XE W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCO CRCX HJ4ABL TGWA TG1X 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.
- CRCX, 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. 1215-1645
- GSL, Daventry, England, 6.110. 1215-1645; 1800-2000; 2200-2300
- HAS3, Budapest, Hungary, 15.370. Sun. 0900-1000.
- HAT4, Budapest, Hungary, 9.125. Sun., 1800-1900.
- HBL, 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.
- HJ1ABR, 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.
- HJ1ABG, 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. 1930-2300.
- 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.
- HRN, 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.
- LKJ1, Jeloy, Norway, 9.540. 0500-0800.
- OAX4D, Lima, Peru, 5.780. Wed., Sat., 2100-2330.
- OAX4G, Lima, Peru, 6.230. 1900-2200.
- ORK, Brussels, Belgium, 10.330. 1200-1400.
- PCJ, Hilversum, Netherlands, 15.220. Sun., 0730-1000; Tues. 0300-0600; Wed., 0700-1100.
- PHI, Hilversum, Netherlands, 11.730. 0830-1100, daily exc. Tues. and Wed.
- PRADO, Rlobamba, 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.
- TIRCC, 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.
- W1XX, 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.

W3XAU, Philadelphia, Pa., 9.590: 1200-2000.
 W3XL, Bound Brook, N. J., 17.310: 1100-1700
 W4XB, 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, Tandjongpriok, 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.
 YV7RMO, 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. Af., 6.100. Heard near midnight
, Pontoise, France, 11.720. 1800-2100; 2200-2400.
 11.880: 1015-1315; 1400-1700. 15.250:

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RADEX RADIO MAP of the WORLD

Showing all Countries and their Principal Cities
with Call Letters and Time Zones of each Country

RADEX
TIME CONVERTER

Designed and Published
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5005 Euclid Avenue
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Printed in the U. S. A.

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DIRECTIONS—Turn the desired hour, either A.M. or P.M., in the sector marked "TODAY" opposite your own zone, and the current time in all other zones in the world will be shown. It will also be indicated which of the other zones are "Yesterday" and which are "Tomorrow". The position of daylight, dusk and dawn is graphically shown. Or, if you desire to tune in a New Zealand program, turn the hour of the program (say 9:00 p.m.) to the New Zealand zone and you will find that it is 4:30 A.M. some day in Eastern Standard Zone or 11 P.M. yesterday in Hawaii.

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Just turn the dial to the time in your zone and—Presto: Change—there is the time for every other place in the world.

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Big map of the world showing all principal cities and their time zones.

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CONNEAUT,
OHIO
U. S. A.**

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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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- Beginner's Story of Radio50

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Write Name Plainly

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City and State



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 had 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. 6AO, Washington, D. C.

J. E. SMITH, President,
National Radio Institute
Dept. 6AO, Washington, D. C.

Dear Mr. Smith:

Without obligation, send me the sample lesson and your free book about spare time and full time Radio opportunities, and how I can train for them at home in spare time. (Please print plainly)

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This super radio will out-perform \$200 and \$300 sets on a side by side test. It is so powerful, so amazingly selective, so delicately sensitive that it brings in distant foreign stations with full loud speaker volume, on channels adjacent to powerful locals. The 18 tubes permit of advanced circuits, make it possible to use the tremendous reserve power, and to exert the sustained maximum output of the powerful new tubes.

80 SENSATIONAL ADVANCEMENTS

Scores of marvelous Midwest features, many of them exclusive, explain Midwest glorious tone realism, super performance and thrilling world-wide 6-band reception. They prove why nationally known orchestra leaders like Fred Waring, George Olsen, Jack Denny, etc., use a Midwest in preference to more costly makes. Pages 12 to 21 in FREE catalog illustrate the new Midwest features. Study them before you make up your mind.

PUSH BUTTON TUNING

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.



GINGER ROGERS AMAZED AT MIDWEST PERFORMANCE

Hollywood, California.
 "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 tuned in on the booming of 'Big Ben'."
 GINGER ROGERS

TERMS AS LOW AS \$3.00 DOWN

ONCE again Midwest demonstrates its leadership by offering the world's most powerful Super De Luxe 18-METAL Tube 6-Tuning Range radio. It is a master achievement... today's most highly perfected, precisely built, laboratory adjusted set. It is a radio-musical instrument that will thrill you with its marvelous super performance... glorious new acousti-tone... crystal-clear "concert" realism... and magnificent foreign reception. Before you buy any radio, write for FREE 40-page 1936 catalog. Learn about the successful Midwest Laboratory-To-You policy that saves you 30% to 50%... that gives you 30 days FREE trial.

SIX TUNING RANGES

This exclusive engineering triumph puts Midwest radio years ahead of ordinary sets and makes them the "World's Greatest Radio Values." Now, it is easy to make the nations of the world parade before you. You can switch instantly from American programs to Canadian, police, amateur, commercial, "secret," experimental, marine and ship broadcasts... to the finest and most fascinating programs from Europe, Africa, Asia, Australia, South America... 12,000 miles away.

ACOUSTI-TONE V-SPREAD DESIGN

(U. S. Patent No. 96750)

The V-Front Dispersing Vanes established a new radio style overnight. They spread the beautiful lace-work of the "highs" throughout the room in a scientific manner... directing the High Fidelity waves uniformly to the ear. Now, get complete range of audible frequencies from 30 to 16,000 cycles... achieving glorious new acousti-tone... assuring life-like crystal-clear "concert" realism.



Send for FREE 40-page four-color catalog. It pictures the complete line of beautiful 1936 Midwest Acousti-Tone V-Spread consoles... and chassis... in four colors.

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