

MIDSUMMER 1936

25^c

RADIO INDEX

The All-wave DX Log of the World



Where and When to Tune for the
Baseball Games

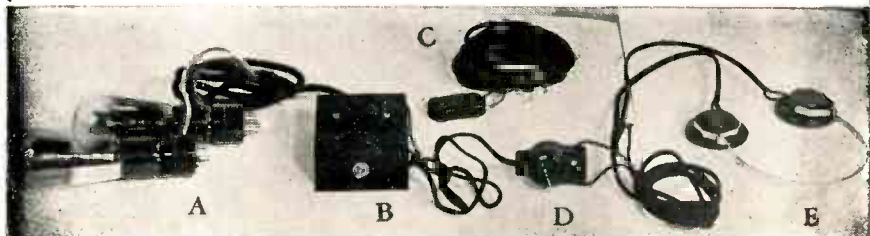
Experience Reports on Three Types
of Receiver

Short Wave Stations of the World
Broadcast Stations of North America

No. 100

The "Perfect" Phone Adapter

permits the use of head-phones on any radio receiver. It is easily attached by anyone without tools and will not affect the operation of the set in any way. It comes with either one or two small socket-adapters (A) which are placed under the last or power tubes. The hard of hearing may listen on the phones while others listen to the speaker. Or the speaker may be silenced when others in the house are asleep or ill.



When the Distant Volume Control (D) is connected to the Adapter in place of phones, the volume may be turned up or down or the advertising "blurbs" may be eliminated altogether—all without leaving your chair. The ten-foot extension cord (C) permits the use of phones and Volume Control from a distance. In this case the phones are connected to the Control as shown. If desired a second speaker in another room may be used in place of phones and either or both speakers used.

PRICES

Perfect Phone Adapter (A & B)	\$3.95
Adapter with 2000-ohm phones	6.70
Adapter with "Featherweight" 24,000-ohm phones	12.00
Distant Volume Control	2.00
Extension cord and connector .....	.50

All prices postpaid. If you live in Ohio add
3% for state sales tax.

The 2000-ohm phones will give excellent service. The 24,000-ohm phones are perhaps the very finest made being especially light and extremely sensitive. They were developed especially for the hard of hearing, airplane pilots, short wave work, etc.

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

The Radex Press, Inc. Conneaut, Ohio



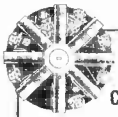
Accept this **TICKET**
to the Most *Exciting*
PERFORMANCE
You've Ever Heard!

The Whole Colorful Kaleidoscope of Life — Yours — with a SCOTT!

IN the privacy of your own home or in the friendly atmosphere of your ham shack, you surround yourself with the things you prize. You never regret that they are the best there are. The thousands of people who have chosen the SCOTT for ownership have had this in mind.

Unexcelled Tone

World famous for its clear, life-true realism. The diamond brilliant beauty of its 30 to 16,000 cycle *high fidelity tone* has won it an envied place in the homes of celebrated musicians, broadcasters and amateurs in more than 146 countries. The SCOTT captures the full range of overtones which enable the human ear to distinguish trumpet from trombone, cornet from clarinet, flute from voice. Exclusive SCOTT Volume Range Expander brings Program beauty which actually exceeds the accuracy of the broadcast, impossible as this appears. True separate Bass and Treble Controls — no sacrificing one end of the musical scale for the other.



EXCLUSIVE ROTARY COIL CHANGER

Secret of SCOTT superiority on all bands. Ends drawbacks of varying length gang switch lead-ins. All contacts automatically cleaned with every rotation of coil system, vital to wave change efficiency.

- 35 Watts "A" Power. 2 to 16 KC Variable Selectivity. 1 Microvolt Sensitivity. Dual A.V.C. 23 tubes. 19 Consoles.

Compare Your DX List

Distance? — Here's a broadcast band teaser from C. H. Weyrich, Baltimore.

E. H. SCOTT RADIO LABORATORIES, Inc.
4424 Ravenswood Avenue, Chicago
630 Fifth Ave., New York
115 N. Robertson Blvd., Los Angeles

Md.: 4BH, 4BC (600 watts each) 2BL Australia, 1YA New Zealand, KGU and KGMB (250 watts) Hawaii — all with verifications. Not only does the SCOTT get Hawaii, but Hawaii gets all the world with a SCOTT! Says Otis Hill, of Hilo, Hawaii: "Reception with the SCOTT has been most remarkable . . . I get consistently perfect reception from London, Paris, Rome, Berlin, Moscow and Holland . . . when I buy another receiver it will be a SCOTT."

Test it 30 Days

Let its magnificent precision prove itself — in your own home — then you'll know what custom-building can really mean. Side by side comparison test invited. 30-day trial in your home in U.S.A. Send tonight for this sensational story!



FREE-SEND TODAY FOR DETAILS

E. H. Scott Radio Laboratories, Inc.
4424 Ravenswood Ave., Dept. 15K6.
Chicago, Ill.

Send "PROOF" booklet of the SCOTT Superior Tone and Distance Performance.

Name

Address

City State

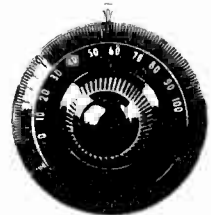
June 1, 1936



RADIO IN INDEX

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TWELFTH YEAR

NUMBER 100

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Baseball Via RADIO

BELIEVING that most radio enthusiasts are also baseball fans, we are offering the following schedule of broadcasts of scores, resumes and play-by-play accounts of games in the various leagues throughout the country. By arranging the stations geographically, we feel that listeners will have little difficulty in obtaining last minute news concerning their favorite teams. RADEX is indebted to THE SPORTING NEWS, national baseball weekly, for this information. All times are local.

Judge Landis has asked the operators of all the baseball teams in major and minor leagues to make no further radio commitments until the matter of broadcasting play-by-play accounts of games can be studied. It is felt in some quarters that these broadcasts keep a large number of customers from the games. This order from the High Commissioner may effect some of the broadcasts listed below.

ALABAMA

Birmingham WBRC 930 Barons' out - of - town games, daily.
Decatur WMFO 1370 Scores at 6:45.
Montgomery WSEA 1410 Scores on hour and half hour in afternoon.

ARIZONA

Phoenix KTAR 620 Five-minute resume at 5:15 daily.

ARKANSAS

El Dorado KELD 1370 Scores daily; play-by-play accounts of some games in Cotton States League.
Jonesboro KBTM 1200 Scores during afternoon, summaries at 6:00.
Little Rock KLRA 890 Play-by-play accounts of Travellers' games.
Pine Bluff KOTN 1500 Play-by-play of Sunday out-of-town games.

CALIFORNIA

Chico KHSL 950 Scores 5:15-5:30, daily except Sunday.
Los Angeles KECA 1430 Scores 6:00 daily, 9:00 except Sunday.
KFAC 1300 Play-by-play of Angels' games daily.
KFI 640 Scores during news broadcast at 10:00 daily.

COLORADO

Denver KFEL 920 Scores every three innings; summaries at 5:30.

CONNECTICUT

Bridgeport WICC 600 Play-by-play of Red Sox' and Bees' games daily.
Hartford WRDC 1330 Play-by-play of Red Sox' and Bees' games daily.

Waterbury WATR 1190 Play-by-play of Red Sox' and Bees' games daily.

FLORIDA

Gainesville WRUF 830 Play-by-play of Gainesville games; scores every night.
Tallahassee WTAL 1310 Some play-by-plays of Georgia-Florida games, with flashes on scores.
Tampa WDAE 1220 Major league resumes at 6:35 daily.

GEORGIA

Atlanta WGST 890 Play-by-play of Crackers' out-of-town games.

ILLINOIS

Bloomington WJBC 1200 Results and comments at 5:45.
Chicago WBBM 770 Play-by-play of Cubs' and White Sox' games daily.
WCFL 970 Play-by-play of Cubs' and White Sox' games daily.
WGN 720 Play-by-play of Cubs' and White Sox' games daily.
WJJD 1130 Resumes of Cubs' and White Sox' games at 6:00.
E. St. Louis WTMV 1500 Scores and comments, daily, 6:15-6:30.
Harrisburg WEBQ 1210 Scores and highlights 3:55 daily; also 7:30 Saturdays.
Peoria WMBD 1440 Scores and highlights 5:45 daily.
Quincy WTAD 900 Scores and highlights 6:00-6:15 daily.
Rock Island WHBF 1210 Play-by-play of Western League and some Cubs games; scores, interviews 6:05-6:20, daily.

INDIANA

Gary WIND 560 Play-by-play of Cubs' and White Sox' games daily; re-broadcast of Cubs' games, 7:00-8:00.
Indianapolis WIRE 1400 Play-by-play of all Indians' games daily.
South Bend WSBT 1360 Scores daily, 6:00 and 9:00.

IOWA

Davenport WOC 1370 Play-by-play of Cubs', White Sox' games daily.
Des Moines WHO 1000 Play-by-play of Cubs', White Sox' games daily; scores, highlights, 9:00.
Shenandoah KFNF 890 Scores and comment, 6:30, weekdays.

KANSAS

Coffeyville KGGF 1010 Inning-by-inning of majors and A.A. at 4:30, 5:00 and 5:40.
Hutchinson KWBG 1420 All home and road games of city's Western Association team.
Topeka WIBW 580 Scores at 5:55, daily.

KENTUCKY

Ashland WCMI 1310 Grover Alexander at 5:00; scores at 5:45.

LOUISIANA

New Orleans WBNO 1200 Play-by-play of night road games of Pelicans.
WSMB 1320 Play-by-play of all road games of Pelicans.
WVL 850 Scores and comment at 6:25.
Shreveport KRMD 1310 Scores throughout afternoon.

MAINE
 Bangor WLBZ 620 Play-by-play of Red Sox' Bees' games daily.
 Portland WCSH 940 Scores, 6:40 daily; comments, 6:45-7:00.

MARYLAND
 Baltimore WCBM 1370 Play-by-play of Orioles' games.
 Cumberland WTBO 800 Reviews, 5:45-6:00, daily except Sunday.

MASSACHUSETTS
 Boston WBZ 990 Scores, highlights, interviews at 6:40 daily.
 WNAC 1230 Play-by-play of Red Sox', Bees' home games.
 Lowell WLLH 1370 Play-by-play of Red Sox', Bees' games daily.
 Needham WORL 920 Resumes Red Sox', Bees' games at 6:15 daily.
 New Bedford WNBH 1310 Play-by-play of Red Sox', Bees' home games.
 Springfield WMAS 1420 Play-by-play of Red Sox', Bees' home games.
 Worcester WORC 1280 Play-by-play of Red Sox', Bees' home games.

MICHIGAN
 Battle Creek WELL 1420 Play-by-play of all Detroit games.
 Bay City WBCM 1410 Play-by-play of all Detroit games.
 Detroit WJR 750 Play-by-play resume at 6:00.
 WWJ 920 Play-by-play of all Detroit games.
 Flint WDFD 1310 Play-by-play of all Detroit games.
 Grand Rapids WOOD 1270 Play-by-play of all Detroit games.
 Ironwood WJMS 1420 Scores and comments at 6:15 daily.
 Jackson WIBM 1370 Play-by-play of all Detroit games.
 Kalamazoo WKZO 590 Play-by-play of all Detroit games.
 Marquette WBEO 1310 Score at 4:20 daily.

MINNESOTA
 Minneapolis WCCO 810 Play-by-play of Minneapolis games daily; summaries at 10:25.

MISSOURI
 Joplin WMBH 1420 Play-by-play of home games of Western Assn. club.
 Kansas City W9NBY 1530 Play-by-play of Kansas City A. A. team at home and abroad.
 St. Louis KMOX 1090 Play-by-play of Cardinals', Browns' home games, daily, except Sundays, holidays. Scores, 6:00.
 KSD 550 Scores hourly after 2:00; resumes, 6:30-6:45.
 KWK 1350 Play-by-play of Cardinals', Browns' home games, daily except Sundays, holidays; scores, 6:35, 9:00.
 WIL 1200 Scores, highlights, 3:30 and 6:35.
 Springfield KGBX 1230 Night road games of Springfield W. A. club and 25 home games.
 KWTO 560 Scores, 5:00; final scores, comment, 6:20-6:30.

NEBRASKA
 Lincoln KFAB 770 Re - creates Chicago Cubs', White Sox' games by wire.

NEW HAMPSHIRE
 Manchester WFEA 1340 Play - by - play of Red Sox', Bees' home games.



Joan Blaine studied to be a lawyer but became a concert singer and a harpist instead. Joan is the leading lady of "A Tale of Today," the popular serial heard each Monday at 8:30 p.m., EST, over the NBC-Blue Network.

NEW JERSEY
 Asbury Park WCAP 1280 Resumes, 8:15 Thursday and Saturday.
 Trenton WTNJ 1280 News and scores, 5:30-5:45; scores 6:45-6:55.

NEW YORK
 Binghamton WBNF 1500 Play-by-play of Binghamton NYP League team on road and some home games. Score, 6:45.
 Buffalo WGR 550 Night games of Buffalo Bisons; scores, interviews at 6:30.
 WKBW 1480 Daytime games of Bisons, at home and abroad; some major league game when Bisons play at night.
 Elmira WESG 850 Home and road games of Elmira NYP League club; scores, comment at 5:45 and 6:30.

New York WINS 1180 Play-by-play of Newark Bears' games.
 Olean WHDL 1420 Scores and highlights, 6:15-6:30.
 Rochester WHAM 1150 Resume of majors, minors, 6:00 daily except Sunday.
 WHEC 1430 Play-by-play of Rochester Red Wings' games.
 Syracuse WFBL 1360 Scores and comments, 6:30-6:45, 11:00-11:05.

NORTH CAROLINA
 Asheville WWNC 570 Home games of Asheville Piedmont League club.
 Durham WDNC 1500 Home games of new Piedmont League club; sport-cast at 6:55 daily.
 High Point WMFR 1200 Scores, 6:00-6:10, daily except Sunday.

NORTH DAKOTA

Fargo	WDAY	940	Scores at 6:00.
OHIO			
Akron	WJW	1210	Sport sants, 6:15-6:30; may broadcast Akron M.A.L. games.
Canton	WHBC	1200	Scores, comments, 5:45-6:00 weekdays, 7:00-7:15 Sundays; may broadcast Canton M.A.L. games.
Cincinnati	WKRC	550	Play-by-play resumes of Reds' games, 5:45-6:00.
	WSAI	1330	Play-by-play of Reds' games daily.
Cleveland	WIKK	1390	Play-by-play of all Indians' games, home and abroad.
	WJAY	610	Scores and highlights, 5:45 daily.
Dayton	WHIO	1260	Play-by-play of all Reds' games daily, except those played in New York and Brooklyn.

PENNSYLVANIA

Allentown	WCBA	1440	Scores daily, 6:45.
Hazleton	WAZL	1420	Play-by-play of Hazleton NYP League club; scores, 5:50; resume, 7:15-7:30.
Philadelphia	WCAU	1170	All home games of A's, Phillies, daily except Sunday.



Marion Talley, whose retirement was almost as sensational as her sudden rise to fame as a Metropolitan prima-donna, is now heard from Hollywood where she is making a picture over her own fifteen-minute program at 10:30 p.m., EDST on Fridays. Dial the NBC-Red Network.

WIP	610	Play-by-play of Athletics' and Phillies' home games, daily except Sunday.
Pittsburgh	KDKA	980 Scores, 6:35 weekdays, 6:10 Sundays.
	KQV	1380 Play-by-play of Pirates' road games, except in Brooklyn and New York; scores, 6:15 daily.
	WJAS	1290 Road games of Pirates except in Brooklyn and New York.
	WWSW	1500 Road games of Pirates where permitted; resume of home games when over; scores, 7:30-8:00.

RHODE ISLAND

Providence	WEAN	780	Play-by-play of Red Sox', Bees' home games.
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SOUTH CAROLINA

Anderson	WAIM	1200	Summaries daily at 7:15.
Spartanburg	WSPA	920	Scores and comment daily at 6:45.

SOUTH DAKOTA

Huron	KG DY	1340	Scores and comment daily at 5:30.
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TENNESSEE

Jackson	WTJS	1310	Play-by-play of local Cotton States League club; scores at 5:00, 6:00, and 7:00.
Knoxville	WNOX	1010	Scores and comment, 6:30-6:45 daily.
Memphis	WNBK	1430	All road games of Memphis Chicks; scores on the hour, 2:00-7:00; final scores, 10:00.
Nashville	WLAC	1470	Play-by-play of Nashville Vols' road games; resumes, scores, 6:30 and 10:00.

TEXAS

Amarillo	KGNC	1410	Scores, 2:45, 5:45, 7:45, 10:45; resumes, 7:15-7:30 daily.
Dallas	WRR	1280	Road games of Dallas Steers.
Fort Worth	KFJZ	1370	Play-by-play of Fort Worth games.
	KTAT	1240	Resume and scores, 7:15-7:30, daily except Sunday.
San Antonio	WOAI	1190	Resume at 10:15.
Weslaco	KRGV	1260	Scores, 6:30-6:40 daily.

VIRGINIA

Charlottesville	WCHV	1420	Scores, highlights, 6:15-6:30.
Danville	WBTM	1370	Scores daily.
Roanoke	WDBJ	930	Scores 6:30-6:35 daily.

WASHINGTON

Bellingham	KVOS	1200	Play-by-play of Pacific Northwest semi - pro league.
Tacoma	KMO	1330	Play-by-play of Pacific Northwest semi - pro league.

WEST VIRGINIA

Bluefield	WHIS	1410	Scores daily at 6:25; resumes at 7:00.
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WISCONSIN

Green Bay	WTAQ	1330	Scores by innings each half hour; final results at 6:00.
LaCrosse	WKBB	1380	Scores and highlights, 6:00-6:15.
Madison	WIBA	1280	Bulletin service during afternoon; review at 5:50.
Millwaukee	WTMJ	620	Scores in six 5-minute periods between 2:30 and 5:00; 15-minute summary at 5:45.
Sheboygan	WHBL	1300	Scores and comment at 6:00.

Final MEETING of the Clan

• • • By THE DX EDITOR

AS FATHER TIME tears another month from the calendar and Old Man Static releases an extra barrage of noise to cloak those distant signals from attentive ears, listeners North of the Equator decide to call it a season.

The time for the annual summer hibernation of DXers affords an opportunity to balance the logs, to check sleep lost against verifications received, and to arrive at a possible profit of personal pleasure or benefit derived from a winter of dial twisting.

The past season has not been outstanding from a reception standpoint. Static was abnormally severe most of the time, and signals appeared to have lost much of their punch. Reception of foreign stations was below the par of the past few years, and many listeners bewailed the generally unsatisfactory conditions.

However, the winter of 1935-36 did present a few high spots, the most prominent of which was the trial of the Inter-Club Cooperation Plan. This was the first time that all clubs worked out a definite scheme of cooperation, and the results seem to have justified the high hopes of the sponsors of the plan. As we go to press, most of the participating clubs have signified their intention to carry on the idea for another year, and we trust that the verdict will be unanimous.

While DXers turn to other fields of diversion, we are already busy formulating our plans for another season. Our annual poll of the broadcasters will be taken in the near future and many other items are receiving undivided attention.

Aside To Readers

In an early issue, we plan to present a comprehensive survey of the aerial and ground situation. Believing that all too little attention is paid to these important factors of good reception, we are asking all readers to submit their ideas on what constitutes an efficient aerial and ground installation.

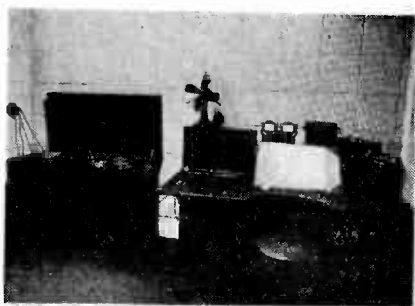
If some type of antenna is effective in a city location, where space is limited, we want the details. If a certain ground works better than any other in sandy soil, we want to know what it is. If some aerial design reduces man-made static without affecting volume, we want the facts. If a listener finds that the usual single wire, inverted "L" antenna and an ordinary water pipe ground beats any other installation, we want to know about it.

All information received will be sorted, tabulated and condensed, and we believe that the resulting article will be of great value to all readers who are interested in obtaining maximum reception from their receivers.

To facilitate handling, it would be well to put all such details on separate sheets of paper, away from reports and other comments, and mark them plainly "Aerial and Ground Data."

In the same vein, we would like to receive information on how to construct an inexpensive aerial mast. This is a very necessary item in many installations and very little has been written on the subject.

It is essential that all readers cooperate by sending in their own ideas. Don't let some one else do it! Do it now—today!



The announcers' studio at Warsaw No. 1 station, showing the "announcers delight," a device which cuts in and out several microphones by means of push-buttons operated by the speaker.

One of the high-lights of the past year was our first Mystery DX Contest. Most listeners have been unanimous in the opinion that it should be repeated next season. If such is to be the case, it will be necessary to ease the work of the judges by the use of a standard, printed report card and summary sheet. It has been suggested that we distribute an adequate supply of such cards and sheets to all contestants, charging a printing and handling fee of twenty-five cents, and limit the contest to listeners who use these standard forms. So, once again we must have the verdict of Radexers. Do we repeat the contest and charge this small entrance fee to everyone, or do we drop the idea entirely?

Concerning The All-Nighters

"During the past season," recalls Robert R. Rawstron, 16 Marconi Rd., Worcester, Mass., "all radio clubs asked their members to send letters to the F.C.C. protesting against the all night stations. My idea is along the same line, except that I suggest that all letters be sent to a central point and then forwarded to the Commission in one large bundle. I think this would attract more attention than having a few letters trailing in now and then.

If clubs and individuals cooperated in supplying these letters of pro-

test, would RADEX consent to act as the go-between by collecting and forwarding them to the F.C.C.? I realize that this would be a large undertaking, but I can think of no organization which is better fitted to handle the work and I trust that you will be able to take it on."

RADEX would be happy to cooperate with listeners in this manner, and if readers will send their letters to us, we will see that the F.C.C. receives a big bundle of protests.

Logging Contest Stations

During the recent Mystery DX Contest, Radexers invented many ingenious methods of logging stations. We know of one DXer who employed four members of his immediate family, tuning specified frequencies on three receivers. The fly in his ointment was the young son who became entranced by good dance music and failed to turn the dial frequently enough.

One of the contest winners, Earl R. Roberts, 2308 Roosevelt Ave., Indianapolis, Ind., brings a new method to light: "Promptly at 2:00 A. M., EST, wherever I happened to be on the dial, I started logging *selections*—not stations—with a note of the frequency or station (if known) In this manner, I covered the dial from one end to the other every few minutes. Quite frequently, I ran into an announcement instead of a selection, and if it was a RADEX broadcast, that station was logged on a separate sheet of paper and was retuned every three minutes until three consecutive selections were heard. I had figured beforehand that most DXers would tune one station and then hang on until they learned whether or not it was a contest broadcast. I think that my method enabled me to tune a maximum number of stations and get a complete report on every one heard. It took a lot of dial twirling, though, and maybe my wrists

weren't tired from writing so fast!"

"Recently I sent in a daytime report to WHBL, Sheboygan, Wisc.," reports L. L. Moore, 310 Second Avenue South, Minneapolis, Minn., "and in their reply they stated that they were changing frequency from 1410 to 1300 keys. They are installing a new RCA transmitter and would like to have reports covering reception on their new wavelength."

"A letter from Jack McLaren, Winnipeg, Man., advises of three Canadian shifts," postcards James L. Black, 2252 Bellfield Ave., Cleveland, Ohio. "CKY at Winnipeg is now on 910 with 15 KW power; CJRC, also of Winnipeg, has moved to 630 keys and is using 1000 watts; and CJGX, Yorkton, Sask., is using but 100 watts on 1390 keys. According to the Cleveland papers, Samuel Insull's new network of 17 stations will have headquarters in Chicago's Civic Opera Building. The hook-up will be split into three divisions: the first running North through Wisconsin to Minneapolis; the second running Southeast to Evansville, Ind.; and the third running Southwest to St. Louis."

"During the week-end of the Mystery DX Contest, I was troubled with a lot of outside noises," complains Jacob N. Mitchell, Eugene Field Rd. and Ashland Ave., St. Joseph, Mo. "After fair results the first two mornings, my set developed a continual buzz and hum Sunday evening, and I was obliged to sign off permanently. I notice that Pat Reilly, Jamestown, N. Y., refers to a 'heavy buzz' on February 10th, and I am wondering if my trouble is in the set, is a local power noise, or is something outside the regular broadcast wave. Whatever it is, DXing is no good with it."

Corrections

"On page 14 of your March issue," finds G. B. Patteson, 202 Elgin St.,



Lyle Thackery, who has full charge of all DX programs from CFCO, is shown here at the speech input equipment of this Chatham, Ontario station. CFCO is the station which broadcast the RADEX Mystery Contest for four hours on February 22nd.

Ottawa, Ont., "you refer to the Canadian tax of so many dollars a tube. Tubes are not taxed in Canada. The receiving set is taxed \$2.00 a year. Some people dream things and others believe all they hear, but why do they not verify information before rushing into print?"

"On page 85 in the April RADEX, you state that KFRC does not verify," writes Kenneth Kaber, Orland, Cal. "This station does verify and I just received a confirmation from them today."

As we have pointed out before, the information which is given in the station listings comes from the broadcasters themselves. When a station notifies us that they will or will not verify reports, we assume that they are stating a definite policy. Even so, experience has shown that there are many exceptions.

"Though I would not class myself as a DXer," qualifies Lester E. Camp, 454 Malvern Rd., Akron, Ohio, "I believe that the bug is hitting me pretty hard. On the broadcast band, I have verified KGIW, WLB, KWK, KVOO, CMBX, WMBC, WOW, KPO, KFI, KMMJ, W9XBY, WIL and many others. On short waves, veries have been received from 2RO, DJC, Pontoise, W2XAF and W2XAD, while letters are out to VK3ME and HJ1ABE".

"I have had an 8-tube RCA Victor receiver for a little over a month," states Albert W. L. Mueller, 405 Crestline Ave., Cincinnati, Ohio, "and would like to make the following report, not knowing whether my reception is unusual or not. I have an outside aerial, about 100 feet in length, to which another radio is attached. Although I have been told that such an arrangement would prohibit foreign reception, I have picked up numerous stations located in Germany, England, Italy and other countries. At times, I use only a 35-foot section of five-strand wire (not insulated) which is tacked along the baseboard, and my foreign reception comes in just as well. Finally, I even use my body as an aerial by placing a finger on the antenna post of the set, and reception holds up just the same. At no time do I use a ground."

"As the season is about to close, I thought I would give you a resume of my best catches," relates Robert Hyland, 216 E. Grand Ave., Springfield, Ohio. "Despite predictions of poor reception, I cannot kick. Instead, I am wondering what I might have heard if the season had been good. Some of the better catches heard this winter are 4QG, JOAK1, PRB9, HJ3ABH, LR3, LR4, LR6, Radio Normandie, Bordeaux, Poste Parisien, KPPC, HIX, TIPG, LR1, LS5, PRF4, CP4, CMKX, WPRP, 4YA, 7NT, 3YA, 2FC, 3LO, 5CK, 2NR, 4QN and 2GZ.

My log now stands at 729 BCB stations, with 333 verified. I am still using my five-year-old Gloriton 5-tube receiver, Model 26, which is as good as ever."

"The Australian and New Zealand stations are coming through with excellent signal strength and perfect modulation," reports Okie Clark, Box 242, Merced, Cal. "On March 21st, I listened to programs from 5CL, 5CK, 4QG, 3GI, 2BL, 1YA, 3YA and 4YA. I use a 1934 6-tube Stewart Warner, Model R119A, for my DXing."

"I have just purchased a new Zenith all-wave receiver," supplies Howard Conrad, R.F.D. 1, Killingly, Conn., "and like it very much. I haven't done much DXing as yet, but have heard KFAC, TGW, LR5, LS2, CMQ, CKBI, Poste Parisien, Radio Normandie, Stuttgart, EAJ7, Rennes, Bordeaux, Florence and a London station testing on 877 kcys."

Reception Yardsticks

"In the thirteen months I have been DXing," contributes Billy Snow, 302 Harrington St., St. Joseph, Mo., "I have learned a few DX fundamentals from various sources, and I have the following tips to pass on: Before DXing, a careful study of the weather map will show what kind of reception to expect. A high-pressure area with clear weather spells good reception from that direction. Low pressure will mean poor reception. I may not be the first to discover this principle, but I have tested and proved it several times. I pulled in KGMB, my best catch, when a high was on the West Coast with clear weather between. I pulled in CMBD between 8:15 and 8:30 P. M., when a low centered in Indiana and a high occurred in Louisiana."

"The trans-Pacific stations are yardsticks of reception for me," declares W. Russell DuCette, 633

Fourth Ave. West., Seattle, Wash. "If one of the JO's is tuned in shortly after midnight, I know that reception from the TP's will be very good. If they are not heard by 2:30 A. M., PST, I go to bed. One notable occasion was the reception of JOHK at 11:00 P. M."

"DXers who complain about not receiving verifications should pay attention to five fundamental rules," suggests Warren E. Winkley, Hughson, Cal. "First, make certain that you have enough material to warrant a confirmation; second, always include some information which will be useful to the station; third, write legibly; fourth, do not demand a verification, but remember that the station is doing you a favor; and fifth, never fail to enclose return postage. Out of 230 requests for verifications, I have been refused by three Mexicans, JOBK1, JFAK and MTCY. I

never give up hope of receiving a verie, however, for they come when least expected. JOXK took two years, but it was worth it when it arrived."

Grading DXers

"To eliminate the inevitable mix-up which will be the result of so many radio clubs," submits R. A. Butts, Ellensburg, Wash., Rt. 2, Thrall, Wash., "I would suggest that a system be worked out where all DXers wishing to join a club would do so through a chain system. Let the idea be worked out like a school. Have 13 radio clubs, with the 13th being the highest grade available to a member of the DX fraternity. Start a DXer in the first grade and let him advance each year through the eight primary grades, the four years of 'high school,' and finally to the top of the DX world. I think this system would be beneficial to the clubs as well as the listeners. This is just a suggestion of my own, and I would like to learn the reaction of readers of RADEX."

A New Zealand reader, George E. Bott, who neglected to give his exact address, writes: "A reader near the East Coast of the United States wrote to me asking for my photo and a copy of my log. I received his letter just as I was going on a holiday and mislaid it. If he will write again, I will try to oblige."

"During the past season, my log and my total of veries swelled considerably," announces Kenneth I. Albrecht, 241 Palm St., Hartford, Conn. "Right now, I'm out for the NNRC Super Ace certificate, and hope to have it soon. The season started about the middle of September and was quite poor until December, when I picked up 30 new stations. January brought the four from Argentina, and my reports resulted in veries from LR1 and LR4. Also in January, I received my first letters from Europe—Rennes. Poste Parisien



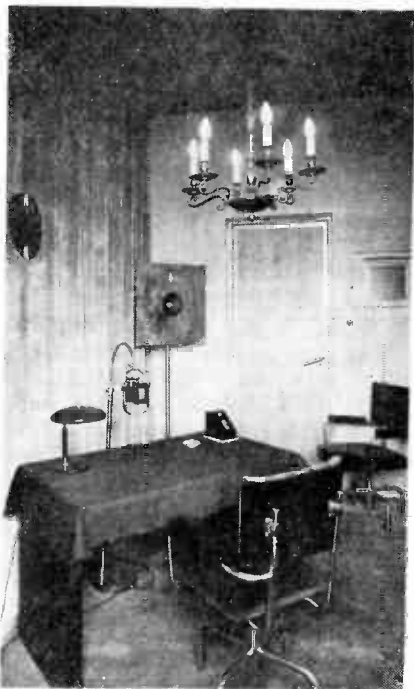
Nineteen-year-old Sally Foster is already a veteran of three years before the microphone. Sally is a city girl, coming from Milwaukee, but she likes the old-time songs and hillbilly and mountain tunes which she sings on the National Barn Dance every Saturday night over the NBC-Blue Network.

and Fecamp. The season has netted me 350 new stations, of which 250 have been verified. That brings my total heard to 650 and the verified log to 523. I use a McMurdo Silver Masterpiece 3 with a doublet antenna and no ground."

More About Logging

"Morton Meehan is entirely correct when he states that double call letters should be counted as two stations," affirms Nicholas J. Hock, 20 Burnet St., Newark, N. J. "However, as to hearing WHFC, and not WKBI or WEHS who use the same transmitter, I have this to say. WHFC is on until 2:00 A. M. every day, while WKBI is on only until 5:00 P. M. and WEHS signs off at 7:00 P. M. As to a change in frequency, I maintain that it has a great deal to do with one's chance of logging a station, particularly when there is a big change. On the lower frequencies, the service area is better than on the upper parts of the dial. WIP on 610, for example, uses only 1000 watts and is received here with local signal strength during the daytime. WCAU on 1170 with 50,000 watts never has the same strength as WIP and is only reliable under very favorable conditions. In the evening, WCAU fades badly and WIP is as steady as WOR. On the other hand, the lower frequencies don't seem to be as good for distance. KFBK and KGA put in better signals here than KFI, with one-tenth the power."

"Because a station changes frequency and power is not sufficient reason to count another catch," holds Paul Sampson, 1820 College Ave, Regina, Sask. "Exception might be taken in the case of CKY, Winnipeg. For a while, they operated on 780 keys with 5000 watts. but now they use 15,000 watts on 960 keys. By all means, count deleted calls. If rare stamps make a stamp collection



The small studio from which talks are broadcast from the Helsinki station at Helsinki, Finland. Working on a frequency of 895 kcs. with 10,000 watts, this is the best of the Finnish stations.

valuable, it will be hard to get verifications which will make a log worth anything. I certainly am not going to drop deleted calls from my log."

"A verification is written proof from a radio station that the holder really heard a program from that station," defines Joel H. Armantrout, 602 E. Magnolia St., Fitzgerald, Ga. "Suppose a station—a rare catch—verifies. later is deleted. It is closed, broken up and its equipment and parts sold to other stations. And a listener holding a verie from this former station would still call it a verification? What nonsense! A verie of a deleted station is a verie no longer when the station has ceased to exist. It is only a piece of paper describing a chapter of DX history.

It may be saved as a remembrance, but it is no verification."

DX On A Crystal

"In your September issue, you had a paragraph on the possibilities of DXing with a crystal set," reminds William Metcalfe, R.F.D. 3, Petrolia, Ont. "Within the last three weeks, I have logged 52 stations on the BCB. Most of these were quite powerful transmitters, although there were a few 1000-watt stations such as KWK, WCAE, WJAS and WNEW. Six of my stations are over 1000 miles distant—XERA, XEAW, XENT, KNX, KOA and WWL—and requests for verification have been sent to the latter three. Could you inform me as to the record distance made by a crystal set?"

While no figures are available to show the greatest distance ever covered by a crystal set, Reader Metcalfe may well be proud of his excellent record with the lowly crystal.

"For those who like to tinker with radio parts, here is an item which may be of interest," offers H. Arblc, Acton, Ont. "In the May issue of *Short Wave Craft*, there is an article describing a regenerative R. F. amplifier. I built this rig for my T.R.F. short wave receiver, but got a little curious as to how it would work on my 8-tube superheterodyne. The first noon hour I tried it, I heard KRNT behind an R8 signal from WADC. Des Moines is over 700 miles from Acton and KRNT carries only 1000 watts during the day. I thought this was very good. Since then, I have received R6-9 signals from such stations as WNEW, WFBL, KMOX, WHK, WSPD, WBT, WADC and WEBR at noon. I expect to log 1000 miles and more when the present high background noises decrease."

"I note that a listener on a steel tanker is having trouble with noise," comments Laurence B. Jones, S. S. Beaconlight, c/o Standard Oil Co. of

New Jersey, Marine Dept., 30 Rockefeller Plaza, New York City. "If he will get two good 2-mike condensers and tap them on to his power wire—hooking the positive lead of one to the positive power wire, the negative lead of the other to the negative power wire, and grounding the two free leads—he will cut the generator noise at least in half. For a few dollars more, he can buy a Dubilier interference filter which will eliminate nearly every bit of noise."

Mystery Stations

"Who can identify the Spanish speaking station on 980 kcys?" inquires Lamar Schlicher, 707 S. Tenth St., Allentown, Pa. "It ruins KDKA. There is another unknown station a few kilocycles below it. Both are received nightly with R8-9 volume."

Theodore Johnson, 821 W. Woodland Ave., Youngstown, Ohio, also asks about the station on 974 kcys, which drowns out WCFL at times, and goes on to inquire about another Spanish speaking transmitter on 1070 which can be heard faintly when WTAM announces. The latter station probably is LR1, Buenos Aires, which has been showing a potent wallop since boosting its power to 50 KW. The other stations are referred to our readers for possible identification.

"Our local station XEFE is on 1340, not 850," notifies Samuel A. Meyer, Jr., 1502 Victoria St., Laredo, Texas. "Their schedule is from 9:00 A. M. to 5:30 P. M., CST, and they do not broadcast at night under usual conditions. I understand that the owner may apply for a license to boost his present power of 250 watts to 500 and to install a short wave relay transmitter."

KVCV is the call assigned by the FCC to the new full-time 100-watt station on 1200 kc. operated by Golden Empire Broadcasting Co. at Redding, Cal.

Hearing Foreigners

● ● ● By E. E. ELY*

GLANCING through the March RADEX, I note several fans who seem to doubt reports of distant reception. Most of the unbelievers are apparently newcomers to the game of DX, so daddy gets out his paddle again to instill into these doubting Thomases a little of the DXer's faith—Nothing in rado reception is impossible.

Here are a few unverified reports from the files of memory:

Sometime in the fall of 1914, at about 2:00 A.M., I sat at a ship's receiver about twenty miles up-river at the banana wharf of Almirante, Costa Rica. With my feet on the desk and headphones hung loosely over one ear, I pounded out press from Boston on a noisy old typewriter for a solid hour without missing a word. Equipment: a good pair of 10,000 ohm phones and a silicon crystal.

Four or five years before that, my boyhood partner, Bill Jackson, dragged in his first S.A. on our receiver in Southern Michigan. I believe it was a station in Colombia. (Check me on this Bill, if you read it.) My first reception was over the remarkable distance of 20 miles, but it was daytime reception and I have used more than one commercial receiver which wouldn't do as well. This was about the year 5 B.T. (before tubes).

Among modern records, I seem to recall that a U. S. Army officer once established communication from an island off the Western Coast of Canada with a friend in New Zealand, and repeated the contact nightly for three weeks, using a couple of 45-volt B-batteries to run his transmitter.

Nowadays, transmitter power is creeping up towards a million kilowatts, and I read in this issue of



We believe this is our first television picture. This photo shows how a synchronized sight and sound program is broadcast. The sound is transmitted over W9XBY, 1530 kcs., Kansas City, Mo., and the pictures are transmitted from W9XAL, 2750-2850 kcs. The television scanning device is being operated by the man in the white coat.

Allan Ford's set which uses 230 tubes and don't doubt it a bit. When I read that someone drags in a signal and offers to prove that it went four times around the world before he picked it up, I mutter, "The lucky stiff!" and go on to the next one.

The laws of freak-work in radio have never been repealed for the simple reason that there never were any. You may expect to get anything, any time, on any set—but you probably won't!

*R.F.D. 1, Box 9, Astoria, Ore.

Jello's Jack Benny show ends its NBC-Blue network series June 21, but the popular comedian and his troupe will be back for the same sponsor next fall. Meanwhile, he will go to Hollywood to film "The Big Broadcast of 1937."

W. C. Birch, 22 Oneida St., E. Lynn, Mass., advises that LR3, Radio Belgrano, 950 kcys, broadcasts until 2:00 AM, EST, every Sunday morning. Between 1:00 and 2:00, when they are in the clear in the East, they come in with good volume. This schedule of dance programs will continue until October.

Closing Another Shortwave Season

• • • By PAGE TAYLOR

THIS is the One Hundredth Number of RADEX. This book has been read and enjoyed by thousands of radio fans in every part of the world for the past twelve years and is at the present time the oldest radio magazine in the country published by its original owner. Naturally, we are proud of our record and we hope our readers will continue to like RADEX as well as they have liked it for so many years past.

This edition of your favorite radio publication brings another DX season to a close. On the broadcast band the seasons are quite well defined and perhaps it was in part the fact that broadcast band DX is so difficult in the summer time that prompted us originally to suspend publication during the two warmest months.

On the shortwaves the seasons are not so well defined, judging them purely from a DX standpoint, as good distance is possible the year around. The definition of the seasons is apparent insofar as direction of signals and propagation characteristics are concerned. Generally speaking, one listens more to the lower frequencies during the winter and the higher frequencies during the summer; in the winter Europe is better at night and in the summer it is best in daylight; winter favors South America while warm weather favors Australia. Therefore, although our season is changing, it is not coming to a close. In many respects, the s.w. season is just commencing.

Unfortunately for this department, along with the opening of the best part of the s.w. season comes the opening of baseball, fishing, swimming and other more summer-like activities and the number of listeners drops, we believe, to half the number that listen

in the winter and good reports become scarce.

Frequency Deviations

Several lengthy letters full of information, particularly on Spanish-speaking stations, have come from R. B. Oxrieder, 122 E. Hamilton Ave., State College Pa. Mr. Oxrieder has his receiver so well calibrated that he can determine the correct operating frequencies of the stations he receives as close as 5 kilocycles, and in many cases, even closer. "I have been checking up on HIH," his report commences, "and I find that he has moved from 6814 to 6780. This station, in San Pedro de Macoris, D.R., still uses the slogan La Voz del Higuamo. HJ1ABJ, La Voz de Santa Marta, Colombia, is now announcing 6025 kcs. but they haven't quite reached this frequency yet, being on about 6023. HI1S, 6420. Puerto Plata, announces as La Voz de Hispaniola. HI3C, La Romana, 6900 kcs., is La Voz de Feria. HIT, 6630. Trujillo, says T for Texas, La Voz de RCZ-Victor. HIG, also in Trujillo, 6280, has a bawling calf and says G for Galveston. It seems that NEVI in Mexico City is now XEWI, as I had an



One of the lesser-known shortwave stations is CR6AA at Lobito, Angola, Portuguese West Africa. This small studio is the one from which announcements are made. CR6AA is on 7.175 megs. and has been reported a few times in this country.

NEW1 on 11950 from 7:55 to 8:40 p.m.; this would seem to be the first harmonic of 5975 kcs. He announced in English his call letters, and box number as 2874. I have been getting a new Venezuelan station on about 6546; the first part of the call letter is YV8R—and I believe the last letter is D. The correct frequency for HI4D is 6558 kcs. This station is from 4-6 kilocycles removed from TIRCC, and TIRCC drifts between 6552 and 6554 kcs. HJ4ABE, La Voz de Antioquia, Medellin, Colombia, has moved to about 6092 kcs., which seems to be an attempt to get on to their assigned frequency of 6097.5 kcs. A W2XGP, experimental station of Press Wireless, Inc., located at Hicksville, L. I., put in an appearance the other night, on 6427 kcs. TIPG, La Voz de la Victor, San Jose, C. R., has been working for a long time on 6410, but his assigned frequency seems to be 6385. The other night he was heard on 6385 and this may be a permanent revision of his frequency. One of the most pronounced "drifters" of all the Colombians is HJ4ABD at Medellin, La Voz de Catia. This station opens up on about 5750 and before signing off has drifted to 5775 or 5780 kcs. This station used to change back and forth between 5760 and 6060 kcs. but I believe that now he has left 6060 permanently. There is a station whose call is supposed to be HJ4ABC, Pereira, on about 6078 kcs. He is about 2 kcs. removed from HP5F at Colon, Panama.

"CO9WR. Sancti-Spiritus, Cuba, formerly on 11800, has moved up to 6280. Sometime ago I was hearing YNVA at Managua, Nicaragua, on 8657, but now I am hearing a station on 8590 which I believe is the same one. It is difficult to identify through the barrage of static and QRM, plus the fact his quality is not very good. HH3W has moved again. He started on 9595, moved to 9612, stayed there until HJ1ABP began messing things up, and then moved to 9617 where he is now."

Mr. Oxreider's receiver is a McMurdo Silver Masterpiece IV. He says the accuracy is obtained by means of a vernier passing over a dial through 360 degrees showing 200 dial divisions. The vernier moves only one-eighth as fast as the main indicator. On this receiver he has consistently separated stations 2 or 3 kilocycles apart so that the only trace of interference is on fades or pauses, and then it is very faint.



Two of the Italian shortwave transmitters are shown here. To the left is the 43-meter station and next to it is the one which works on 49.3 meters. In the center is the 5 kilowatt panel and at the right are the water-cooled output tubes which raise the power to 20 kilowatts in the aerial.

A New Australian

A new world-wide broadcasting station is under construction in Australia. Amalgamated Wireless, (a/sia), Ltd., operators of VK2ME at Sydney and VK3ME at Melbourne, are building a station to be known as VK6ME, at Perth, Western Australia. Further details at the present time are not known. When this station is on the air, shortwave listeners will have an opportunity of tuning for the maximum distance possible from this part of the world. On The RADEX World Globe it measures 10288 miles from the center of the United States.

The Technical Supervisor of W3XAU, Mr. J. G. Leitch, sends us the revised schedule of this Philadelphia station. W3XAU on 9.590 megs. works daily from 12 noon to 8 p.m., Eastern Daylight Saving Time, and on 6.060 megs.

from 8 to 11 p.m., EDST. This is with the exception of one hour on Sundays, from 7 to 8 p.m., EDST, when the transmitter is shut down to prevent interference between W3XAU and PCJ in Holland, and to assist American shortwave listeners in receiving the Holland program.

"The DXing season thus far has been fairly successful for me considering the barrage of static one has had to contend with," recalls Russell Graham, 1005 Allard Ave., Verdun, P. Q. "Atmospheric conditions in general were poor, and I have had trouble keeping my aerial erect as it blew down twice this past winter. I am using a Lynch cage running east to west and I find it very strong, especially on the s.w. It have added 78 stations to my s.w. log, making 176. LKJ1 on 9.53 megs, is beginning to come through here now during the afternoons. JVM at Nazaki, Japan on 10.74 megs, comes in well in the mornings. Some of the new stations in my log are HJ1ABP, Cartagena, Colombia, 9.600 megs. heard between 20 and 2330, EST. VE9DR, 6005 kcs. resumed activities April 8th with a new 75 watt transmitter, relaying our local CFCF from 8 a.m. until 1 a.m. the following day. HJ3ABX, Bogota, Colombia, "La Voz de Colombia, 6.125 megs. is heard with excellent strength. This station has a complicated 9-chime signal."

Walter Wallin, 89 Garvan St., E. Hartford, Conn., submits information on four stations. HIT, "La Voz de la RCA-Victor," Apartado 1105, Trujillo, D. R., 6.630 megs, 200 watts. The schedule is 1210-1340 and 1810 to 2040, EST. HJ1ABP, Apartado 37, Cartagena, Colombia, 9.6 megs daily from 2000 to 2330 EST. HRD, La Ceiba, Honduras, 6.235 megs., 200 watts. HRD works from 2000 to 2300, EST. HJ3ABD, now one of the oldest stations in Bogota, Colombia, has moved to 6.05 megs.

An African Tip

"Noting from time to time com-

plaints in your columns from DXers who have not logged Africa, I think someone may be interested in hearing about my favorite station, VQ7LO," surmises T. Farrell, Box 473, Sydney Mines, N. S. "VQ7LO comes in best around 2:15 p.m. and on Saturdays it is usually a good strong signal at 3 p.m., when they sign off. Reception is very good considering the small power of 500 watts. The frequency is 6083 kcs. A new station on the air is YSK at San Salvador, heard on their initial radiotelephone transmission to New York and also heard testing with Mexico. The frequency is 8.195 megs. Japan is now using JVN and JVP for special programs to the east coast of the U. S. A. on Mondays and Thursdays from 4 to 5 p.m. EST."

A special international conference was recently concluded in Paris, and, like most conferences, not much was accomplished. It was stated, however, that there seems to be an urgent need for wider shortwave broadcasting bands and the delegates will seek more channels near the 6000-6100 kc. band, and a wider band near 17780 kcs. when the next International Convention is held in Cairo, Egypt in February of 1938. This seems like a long time to wait for better s.w. reception.

From Suva to Warsaw

"I have had my radio only since January of this year, but already have a number of verifications of which I am very proud," contributes Gerald Grandmaison, 60 Palmer St., Salem, Mass. "My most recent veri is from HJ1ABP, Cartagena, Colombia, on 9600 kcs. They are on the air nearly every night from 1900 to 2100, EST. Other veries are in from HH3W, Port-au-Prince, Haiti, P. O. Box A-117. Station VPD at Suva, in the Fiji Islands comes in very well nearly every morning and

is much better than any of the Australians. British and German stations are like locals here. I have verified SPW at Warsaw, Poland on 13653 kcs., ORK, Brussels, Belgium on 10330, 2RO at Rome on 9635, HIZ at Trujillo City, D. R. on 6316 kcs., HAT4 at Budapest on 9125 and have cards from the French station on its three wavelengths."

The police station for the city of Sharon, Pa. on 2.482 megs. has finally had call letters assigned, WQFU. It is expected construction will be completed by June 20.

The State of Washington is certainly police-station-minded. Walla Walla has a construction permit for a municipal station to work with 50 watts on 2.414 megs., making the 39th police broadcaster in this state.

Siam was reported on the west coast last month and this month Eric Butcher of Cokeville, Wyo. reports it. The station is HS8PJ, 10.980 megs., Bangkok. Eric heard it on a Monday morning at 7 a.m., MST. "I am now using a PR16 receiver, which, so far is far superior for s.w. DX to anything I have tuned," pens Eric. "The dial is very accurate and the band spread is fine. I would be glad to hear from any Patterson set and get some ten and twenty-meter dope. I haven't gotten very far out of the United States on 10 meters yet. I am using 300 feet of aerial running north and south. I would like to exchange SWL cards, photos, stamps, correspondence and calendars with anyone."

For Puzzle Fans

Here is a puzzler. Paul Dreibelbis, 737 S. 10th St., Allentown, Pa., describes his troubles, saying, "I received a s.w. station on Saturday evening at about 11:10 p.m., EST., and it ceased transmitting at about 11:45 p.m., on about 9 megs or more. He announced he was using 25 watts

power, and at the time I heard them they were advertising fertilizer. It was located somewhere in Georgia. The program consisted of recordings." No shortwaver in Georgia exists near this frequency; an amateur could not broadcast recordings, and the probability of its being a harmonic is remote as there is no 25-watt station in Georgia.

"I wish to report a lot of unusual stations," prefaces Albert A. Duggan, 507 London St., San Francisco, Calif. "I am using a National SW-3 on shortwaves and a Sky rider 777. The shortwave section of the 777 is only fair, with VPD, YDB, VK3ME, VK3LR, VK2ME, JVM and JVT and the usual run of reception. On the SW-3, however, these unusual catches were recorded. KNHI, Alcatraz Prison, low power phone on 2466 kcs. works with NMC at Point Bonita.

"KGRW, sailing boat 'Adventur-ess', KGRV, 'Gracie S', WGD, the 'California', all pilot boats on 2560 kcs. phoning in the daytime every half hour. United States Navy vessels use phone and cw during the daytime on 6600 kcs.

"On the ultra-shortwaves these have been logged: W10XFR, National Broadcasting Co., 111 Sutter St., San Francisco, on 31.6 megs. phones and tests daily with NBC programs. W9XAZ and W9XP, also on 31.6, are often R9 signals. W4XT, location unknown, on 33.1 megs. comes in strong and several police stations, one as far east as Poughkeepsie, N. Y., come in with R8-9 signals on 9 meters.

"Last Sunday we picked up ETB at Addis Ababa, Ethiopia," asserts L. W. Leroi, 317 Crestwood Blvd., Coldwater, N. Y. "The announcer stated this station would be on every Sunday afternoon from 4:30 to 4:50 p.m., EST., on 11.950 megs. The receiver used here was a Midwest 18-tube set."

More Apex Reception

John W. Marchildon, 112 No. Edinburgh Ave., Los Angeles, Calif., our original ultra-shortwave reporter, has added W8XAI, Rochester, N. Y., and W9XPD, St. Louis, to his log of stations on 31.6 megs. Signals from these two stations reach Los Angeles with R7-8 strength.

Albert Steinmetz, 1235 N. Lawrence Ave., Philadelphia, Pa., now has HAT4 verified 22 times. "And here's a new catch," he says. "W2XGB, Press Wireless, Hicksville, L. I., was testing from 8 to 10 p.m. on about 6400 kcs. During the two hours they were on they played recordings and read two-day-old news. They asked their observers in Cuba, Halifax and San Francisco to report on reception before the antennae were changed. Four minutes were required for the change, and reception did not seem to be any better afterwards in this locality."

Correspondence with users of Air-castle receivers is requested by Charles Spielman, 415 So. Barstow St., Eau Claire, Wisc. He reports good reception of NY2AE, a 20-meter "Ham" located at the Submarine Base at Coco Solo, Canal Zone nearly every evening near 2230. EST. Reports to PRF5, he states, should be addressed to the Department of Propoganda, 305 President Wilson Ave., Rio de Janeiro.

Mr. Spielman, and C. F. Zimmer, Box 27, Coteau, P. Q., report a strange French-speaking station between 12150 and 12250 kcs. every morning between 2 and 2:30 a.m., EST.

"I have been DXing for a year and a half and so far have logged every continent except Africa," Richard P. Wilbur, Green Brook Road, N. Caldwell, N. J., tells us. "My log to date contains 130 s.w. stations, not counting amateurs, police or phones. Possibly by best catches are VIZ3, RKI, PLP, VPD, ORK, HAT4 and HBJ.

DZH comes in well from 1:45 pm on, and DZB has good volume after 4 pm, EST. I would like to correspond with users of Pilot Dragon Monarch receivers."

The Station's Side

● ● ● By R. B. Sutton *

FROM the standpoint of one who fills out the verification cards, the writer believes he is entitled to a few words on this much-discussed topic.

Reports from DX listeners do not particularly interest station KFPY; reports are answered purely as a good-will service to the listener. Reports on modulation, quality, carrier noise, etc., are usually just a waste of time as the modern radio station is able to make exact measurements of all these factors.

We have a genuine complaint to make as regards the quality of most reports received. Most of them are written on postal cards, but this type is immediately filed in the waste basket. We do not reply to incorrect or unacceptable reports unless return postage is included.

Correct reports are handled according to the amount of postage sent; a one-cent stamp brings a card mailed as a post card. For a three-cent stamp the card is mailed in an envelope, and for ten cents the listener receives a verification card and an Ekko stamp.

A large portion of our programs are received from the CBS or the Columbia Don Lee Networks and therefore we do not have a complete log of all the numbers transmitted with which to compare reports. KFPY will verify network programs if the listener gives an *exact* quotation of the words used by the local announcer while giving the station call letters. Quoting the portions of local commercial announcements during the station break is also acceptable as a means of verification.

The work of filling out the cards

at this station is done by the night operator and as a result, there is no wholesale issuance of cards to any and all who may ask for them.

The statements made here do not represent an official statement of policy by the management of this station, but are simply the personal opinions and views of this writer. Incidentally, the writer happens to be a shortwave DX "nut" with amateur license W7GZ, and holds down the chair at the transmitter of KFPY at night.

**Technical Department, KFPY, Spokane, Wash.*

The Puerto Rico DX Season

●●● By Manuel Alberto Cadilla*

A MID a veritable roar of static, the DX season in Puerto Rico began on September 1, 1935. At that time, my log was reading zero. By the end of the first week, 38 stations had been heard. A stop was then necessary, and it was not until the end of October that DX activities were resumed.

My report for October 26th gave a total of 62 heard. By November 30th, 159 were logged. On December 29th, my log totaled 246, and that had jumped to 274 on January 26. My last report on February 29 showed 315 stations in the bag. With the addition of KGVO, WBRB, WHBB, WIBA, WJBW, WLNH, WMBO, WOC and WWSW, I closed the season on March 15th with a total of 324 stations heard on the BCB. I had aimed for 350, but conditions were decidedly unfavorable.

Comparing with last season's log, I find that I heard 58 more stations and that would indicate better DXing. However, considering that I wore earphones, had a longer antenna, a more powerful receiver and one more year of experience, besides having spent more time at the dials, I decided that the preceding season

was indeed better than the one now closing. So, the forecasters of poor DX on account of sunspots got away with that one.

It will again be September 1st before I get up in the mornings to hunt for stations on the BCB, but I shall try to be of some help to SW DXers during the hot months. I shall be waiting for the 1937 receivers to be on the market and hope then to be in a position to grab a good one, re-locate my aerial and otherwise rig myself up for better reception.

I cannot close without acknowledging the invaluable help which I have received from RADEX, and a word of commendation is due the Canadian DX Relay and the Universal DX Club for their excellent information.

**P. O. Box 691, 1 Georgetti St., Rio Piedras, P. R.*



Manuel Alberto Cadilla

The DE FOREST-CROSLEY Connaught Radio

••• By EDWIN WORTHINGTON*

I BOUGHT a DeForest-Crosley Connaught, table model receiver in January of this year. It has six Rogers metal-spray glass tubes, but according to the salesman it is supposed to give 11-tube performance. My aerial is a De Forest-Crosley dcublet with a twisted, shielded lead-in, about 40 feet from the ground in a direction roughly ENE-WSW.

The controls are simple and usual. Wave-change switch is at the left, power and tone control at the center and volume control at the right. The tuning knob is at the center above the tone control; it is of good size so that the fingers do not cramp even after long "fishing" for an elusive s.w. station. With the vernier knob the pointer can be moved so slowly as to be hardly seen to move.

The dial is well lighted and has a correct tuning light which darkens when a station is brought in, the amount varying with the distance and power of the station. Some of the s.w. signals fail to visibly affect it at all.

Calibration of the dial works out about as follows: On the BCB, 540 kcs. comes in at 530 and this remains constant to 1180 kcs., where it gradually gets less to 1220 kcs., at which point the calibration is perfect. To 1350 the readings run true, and then the reading becomes 10 kcs. off in the other direction to the end of the dial. On the shortwave section of the set the variation does not seem so marked, as the following figures will indicate: HRN at 5.875 comes in at 5.850; EAQ at 9.862 comes in at 9.8 and W8XK at 15.210 comes on 15.2

(As the frequencies of shortwave stations vary, even on some of the most reliable stations, it is difficult to judge the calibration of the s.w. section of any set.)

The tone of this machine is very good, sopranos and basses coming in with equally good clarity. The high tones of the violin and low bass notes are round and clear, and a piano tinkles along as if it were in the same room.

Owing to the fact I work at night, most of the tuning is done by my sister, although I do my share on nights off and during the daytime. My sister tunes from 5 p. m. to 10:30 p. m. as a rule. Taking into account our tuning hours, we believe our reception is very good. On the broadcast band we have logged every frequency from 540 to 1550, excepting 660, 990, 1020, 1110, 1390 and 1440 kcs. No station has ever been logged unless the call was distinctly understood, either on BCB or s.w. The total number of broadcast stations heard is 107, of which the majority were logged during the first month of operation of the set. The greatest distance has been enjoyed from stations KGNC, KOMA, KTHS, WHAM, WAPI, WBT, WSM, WWL and WWVA; also two of the Hawaiian stations, KGMB and KGU, and a sprinkling of Mexicans, including XEAW, XEB and XEPN.

On the s.w. we have logged 80 stations. The Boundbrook, N. J., transmissions come in like locals and can be counted on at any time, any day. Pittsburgh and Cincinnati are often good, and we sometimes catch Bolinas, California with a point-to-point

2:10, the station announced its par-
transmission to Hawaii or Alaska.
Of the South and Central Americans,
owing to their high speed announcing,
we have not counted many stations.
We have heard HJN and HJ1ABE,
PRADO, TIEP and TIPG, HRN,
XEBT and XECR, and in the West
Indies, CO9GC, COCO and HIZ.

Of the trans-Atlantics we hear
England through GSA, GSB, GSC,
GSD, GSF and GSP. France comes
in on 11.72 and 11.88 megs. From
Germany, DJI has been heard for cer-
tain and others have come in whose
call letters we did not get. Italy 2RO
and Madrid EAQ have nice signals,
and a station which we believe is
ORK is heard.

From across the Pacific we have
VPD in Fiji, a number of Japanese,
including JVM, JVN, JVE, and JVH;
KTO at Manila, and in Hawaii, KKP
and KKH.

I would willingly recommend this
set to any of my friends, as in my
opinion the results are very good for
the number of tubes and the short
time of operation.

*7203 Short St., Vancouver, B. C.,
Canada.



Mrs. A. C. Johnson of Henry, S. Dak., is
the first feminine DXer to favor us with her
picture.

Final Contest Notes

A NUMBER of readers have writ-
ten in regarding a few points
on the recent Mystery DX Contest. A
typical query comes from Frank W.
Hoxie, South Orrington, Maine.

"To report correctly on the seven
stations which broadcast during the
3:00 to 4:00 AM period on Febru-
ary 23rd," he writes, "it seems to
me that a DXer would have to spend
at least nine minutes to get three
successive selections on each of the
stations. Nine times seven is 63
minutes, or three minutes over the
hour the stations were on the air.
As he didn't know what stations to
tune for, this doesn't allow time to
twirl the dials. Further, what about
a burst of static and a period of fad-
ing which would make him miss a
selection? I don't say that it was
impossible to get all seven stations
for 20 points each, since the winner
seems to have been successful in this
connection, but I don't see how he
did it."

Reader Hoxie was correct in figur-
ing that the average duration of
three successive selections was nine
minutes, and that to spend that
amount of time on seven stations
would occupy 63 minutes. However,
we wonder if it is necessary to listen
to the third selection after having
heard its title announced.

In other words, it should take no
more than seven minutes to hear
three announcements and the two
sandwiched selections. Seven min-
utes times seven stations makes a
total of 49 minutes—with eleven
minutes for tuning. And this as-
sumes that it was necessary to hear
all three announcements!

Let us consider a logical example
of tuning. Suppose a DXer tuned
in a station at 2:09 AM, in time to
hear the last minute of a selection
which he recognized as "Wahoo." At

participation in the RADEX Mystery Contest (if it was a good station and minded our instructions) and gave the following selection as "St. Louis Blues." At 2:13, the station announced again and identified the next number as "Alone." With this information, the DXer would be justified in reporting "Wahoo" at 2:07 and giving the other numbers as he heard them. Thus, he would be able to report the necessary three successive selections by spending no more than five minutes of his time. Five times seven is 35, leaving 25 minutes for tuning. This would be an exceptional case of good fortune, but by no means impossible.

Carrying on the idea, most DXers realize that it is not difficult or unusual to utilize two of the three minutes' duration of a selection to tune for other stations. With any kind of luck, a listener can practically tune two stations simultaneously. He may not do it all of the time, but it is still possible and quite probable that he can double up two or three times during an hour of listening.

Checking on the reports of some of the winners, we find that Lewis, Herman and Smith reported all seven stations correctly during the hour in question. Roberts, Gordon, Tawzer, Arbic, Weaver and Sousa logged six. Sousa missed WTRC and the other five missed WBBR. Since the latter station failed to announce its participation frequently, the listeners may not be blamed for having missed it.

An outstanding example of "double tuning" was afforded by Robert H. Weaver. Following is an extract from his log during the 3:00-4:00 period on February 23rd:

- 3:02—WIBM—Moon Over Miami
- 3:04—WIBM—You Are My Lucky Star
- 3:05—WTRC—Treasure Island
- 3:07—WIBM—Eenie Meenie Minie Moe
- 3:08—WTRC—Turn Your Face To The Sun
- 3:11—WTRC—Take Me Back To My Boots
And Saddle
- 3:13—KOMA—We've Got Love And A Dime
- 3:14—KOMA—Moon Over Miami

- 3:15—WTFI—Listen To the Mocking Bird
- 3:17—KOMA—Rhythm In My Nursery
Rhyme
- 3:18—WTFI—news flashes
- 3:19—KOMA—I Want To Be A Mountain
William
- 3:22—WTFI—Teetum Tiney Rag (?)
- 3:25—WTFI—How Beautiful Heaven Must
Be
- 3:29—WAAW—When My Baby Smiles At
Me
- 3:30—WAAW—China Boy
- 3:32—WAAW—Wahoo
- 3:33—WAAW—Moonglow
- 3:35—WSYR—I'm A Gambler
- 3:39—WSYR—St. Louis Blues
- 3:42—WSYR—After You've Gone
- 3:45—WSYR—Farewell Blues.

Reporting 22 identifying items in 45 minutes was a neat bit of tuning. It was too bad that the NRC president was unable to snare WBBR during the remaining 15 minutes of the hour.

A number of protests, many of them uncomplimentary, have been made in regard to the stations which were counted. As we pointed out in the May issue, no less than 57 non-participating stations were reported by contestants.

While nearly 200 stations received invitations and were invited to take part in the contest, the 40 broadcasters listed in the May RADEX were the only ones who agreed to come on for our readers and who received our special instructions. The others either ignored or refused our requests.

While it is possible that some stations might have come on without notifying us, we feel that this is quite unlikely. The most frequently reported of the non-participating stations were KROC and WTAL, each of whom was claimed by 13 contestants. Since other stations of equal power received several hundred reports, we doubt if either of these broadcasters actually announced their participation in the contest. As neither of them was invited, we are more certain of this contention.

We do believe that some of the non-participating stations may have dedicated a DX program to RADEX, something which is done regularly

throughout the year. All contestants were keeping their ears open for mention of RADEX and not a few of them probably mistook a mere dedication for an announcement of participation. The penalty for such careless listening was time lost on a station worthless from the point of view of the contest.

We admit that the set-up of our first contest was not perfect and ask readers to send in suggestions on how a possible future event of this nature should be handled.

DX On The Mexican Border

● ● ● By SAMUEL A. MEYER, JR.*

HAVING DXed for several years in Rochester, N. Y., I naturally looked forward with interest to reception in Laredo. This city is 1500 miles from Rochester and I knew the old dial would be strange indeed in such a different location. Climatic conditions also affect reception, and I was anxious to find out those changes.

While XENT has put Laredo on a DXer's list of easily-received cities, it might be well to commence my observations by locating the city on the map. We are approximately 220 miles up the Rio Grande from the Gulf of Mexico and our position is 27° 30' N, 90° 40' W.

Despite the heat, reception during the daytime is quite good. Our locals are XEBK, XENT and XEFE, all in Nuevo Laredo. Next in volume come XEPN, XEAW, WOAI and KTSA. The Houston stations are received with good signal strength, KPRC and KTRH being R7 and R5 respectively. XET in Saltillo and XEOX in Monterrey are both fair. It is interesting to note that stations located so far from my home in Rochester suffer

far more interference and are much weaker between 9:00 A. M. and 4:00 P. M. Numerous small Texans are barely audible.

The other day, with the temperature in the eighties, WLW, WSM, WGN and WSB were easily heard at noon. It may not be sensational, but I do feel that 1100-mile reception at mid-day, with summer heat, is at least an interesting experience. On the same day, WFAA grew to the volume of WOAI and the smaller stations in Monterrey and Saltillo were audible for the first time in the five weeks I have been here.

Contrary to my expectations, the Mexican stations, with the exception of the giant border transmitters, are poorly received or are not heard at all after 5:00 P. M. XEW is a little better than in Rochester, while XENT spreads on my radio to spoil XEW on 890 and XEFO on 940. XEB is ruined by CMCY and CKLW! There are Spanish speakers all over the dial from 6:00 to 9:00 P. M., but they are all Cubans. At least 20 Havana stations are easily heard here and the logging of a small Mexican at night is quite a job. To date, none of the LR's or CX's have appeared, but I imagine that they cause the numerous heterodynes which I have not identified. CMQ sounds like a 50-kilowatt and sometimes is audible as early as 3:00 P. M.

I have been much impressed with the great clarity of the U. S. stations located over 1000 miles from Laredo. The average Laredoan tunes his radio to stations that distant for nightly entertainment, and usually they come in just as well as they do in the North, where they are so close to the listener.

XENT is but nine miles South of the two Laredos, and the few who listen to it locally must de-tune to 900 or 920 to receive the program with any degree of clarity. Right on 910, it is terribly distorted and is loud even at minimum volume. I

think they are using 60 KW at present, although they are licensed for 150 KW. The least annoying of the border stations is XELO, Piedras Negras, 1110 keys., which has just returned to the air after a long silent period.

*1502 Victoria St., Laredo, Texas.



Here are a couple peachy guys figuring out how to keep out of the White House and stuff. The reclining cherubin is none other than Col. Lemuel Q. Stoopnagle and his pal is Budd. If you're interested, tune for them 9:30 p.m. Thursdays on the CBS.

One of the most clever interval signals we have heard is the one used by CFAC in Calgary, Alta. Preceding the stations announcements, chimes are struck to the notes of C-F-A and C. There is only one other station in North America whose call letters fall within the musical scale, CFCF.

Having secured authority from the FCC to change its call letters to KCMO, the former KWKC, Kansas City 100-watter, has been reorganized under the direction of Lester E. Cox, operator of KWTO-KGBX, Springfield, Mo., and A. F. Schliecker has been named general manager.

Britain Looks Ahead

THREE months ago, the future of broadcasting in Great Britain was, theoretically at least, rather uncertain. With the Charter to the British Broadcasting Corporation due to expire at the end of the present year, no one could say with certainty whether the current system would continue or be abandoned in favor of some revolutionary change.

Of course, the possibility of an alteration of policy was more than remote. Arrangements once put into effect in England have a tendency to continue in force indefinitely, resisting attempts at modification with an almost savage ferocity.

Perhaps as a mere matter of form, the Government appointed a committee, under the Chairmanship of Lord Ullswater, to consider the future of broadcasting. It was the duty of this committee to study present conditions and to consider what changes, if any, should be made when the B. B. C. charter expired. The committee had an entirely free hand and could, if it so desired, recommend a reorganization of the very foundations on which British broadcasting has been built.

Officials of the B. B. C. championed their own cause neatly. Programs during the past year experienced a definite rise in entertainment value. The B. B. C. publications reminded listeners of the excellent radio fare being presented daily. Letters of approval from readers supplemented the applause in the editorial columns, while notes of criticism were conspicuous by their absence. Broadcasts burlesquing American programs stressed the vast superiority of the non-commercial British policies.

When the committee's report was released in March, broadcasting officials had cause to congratulate

themselves. In addition to a eulogistic endorsement of the administration by the B. B. C., the committee advised the Government to continue the present general structure and to extend the Royal Charter for a term of ten years.

Worthy of attention are incidental recommendations concerning important items of policy and management.

Advertising

Although acknowledging that the B. B. C. had been hampered by lack of revenue in the presentation of varied programs and a more rapid extension of service, the committee ignored the possible income to be derived from sponsored programs and advocated the continued exclusion of direct advertisements.

Taking cognizance of British-sponsored programs from such continental stations as Poste Parisien, Radio Normandie and Luxembourg, the committee encouraged the efforts of the Post Office and the Foreign Office to prevent the broadcasting from foreign countries of programs in English which include advertisements.

Despite this definite stand against advertising, it was acknowledged that it might be necessary to finance the development of television through the sponsorship of early experimental broadcasts. However, it was emphasized that such a deviation from established principles should be limited to the initial stages of visual transmissions.

Ministerial Responsibility

A rather startling and important recommendation was the suggestion that supervision of broad questions of general policy and culture should in the future be allocated separately to a Cabinet Minister in the House of Commons, free from heavy departmental duties.

In other matters of control, it was recommended that the Postmaster

General should continue to deal with the licensing system and those technical matters arising from the Wireless Telegraphy Acts.

Subject to the right of the Government to ultimate control of broad issues of policy, the committee considers that the B. B. C. should, as in the past, be allowed as much freedom as possible in its domestic affairs and in details of management.

Propaganda

Appreciating the significance of the conspicuous development of broadcasting in English from other European countries, whose transmissions are received in all parts of the British Empire, the committee stresses the importance of developing more fully their own Empire service. Apparently aiming at the propagandic broadcasts from the Soviet, German and Italian short wave stations, they call attention to the necessity of effecting a "projection of England" around the world.

Concurrent with the release of the report and its recommendations, the Duke of Abercorn, Governor General of Northern Ireland, opened the new station of the B. B. C. at Lisburn, Northern Ireland, on March 20th. Situated about ten miles from the center of Belfast, this modern transmitting plant is the latest milestone in the steadily expanding B. B. C. service.

In appearance, the station differs considerably from the other British transmitters. Instead of being built in small units, it is constructed in one large unit and is sub-divided internally.

The insulated lattice steel mast, 475 feet high, has three sets of stays, each consisting of two separate pairs of parallel stays attached to the mast at half and at two-thirds its height respectively. A sliding top mast, in the form of a 75-foot steel tube operated by a winch, permits adjust-

ment of the electrical constants to the appropriate wavelength.

Power is supplied to the station by the Northern Ireland Electricity Board through a sub-station on the site. In an emergency, Lisburn is independent, for auxiliary equipment includes a 600 horsepower, six-cylinder Diesel engine driving an alternator.

A distinct improvement in the quality of reception in the Belfast area is confidently expected, and the new transmitter will doubtless provide a satisfactory service in other districts which were not served so well by the old Belfast transmitter.

Whether reception will be completely satisfactory in the extreme West of Northern Ireland remains to be seen, but the best service practicable has been provided by the use of the maximum permissible power in conjunction with the most efficient type of aerial.

The potential power of all Regional stations in Great Britain is 70 kilowatts, but until now the power actually used has not been more than 50 KW. With the increasing strength of foreign stations, however, it has been evident to the B. B. C. for some time that defensive action would have to be taken.

Some of the stations have had their power increases already, and within a few weeks all the Regional transmitters will be using 70 KW. The new Lisburn station will use 100 KW, the maximum allowed under the Lucerne Plan for their frequency of 977 kc, as will the new Burghead station now being built in Scotland and the Northeastern transmitter at Northumberland.

Its six weeks of test operation completed, WBNY, new Buffalo station licensed to Roy Albertson, formerly manager of WEBR, Buffalo, was licensed for full operation April 14 by the FCC.

Why Verify?

By Howard L. Spies*

IN THE April RADEX there are two items which are worthy of comment. On page 8, bottom of the second column, a paragraph titled "A Veri That Isn't A Veri" and on page 20, fifth paragraph of the first column, the information concerning WJBK forwarding a veri in response to a request to get off the air. Both of these items concern a similar subject and raise a point which I haven't see discussed in RADEX.

Perhaps I am not qualified to discuss verifications, as I have never requested nor received one. However, the pages of RADEX are dotted with references to and discussions concerning verifications, and I have often wondered whether the expense and trouble involved in securing veris are justified.

To my mind, a veri is incontrovertible proof that a certain station was received. In the two cases mentioned above, it was not. Neither HJ1ABD nor WJBK was received, yet a verification was issued just the same.

While the F. C. C. requires that a station keep an accurate log of all broadcasts, it does not say that a station shall issue only authentic verifications. However, the fact that stations are swamped with requests for veris is evidenced by reports in RADEX that confirmations are received months and even years after being requested.

Suppose that a broadcaster does have an accurate record of all programs transmitted. How many stations will check back on each request to determine whether or not the report is correct? In the first year's broadcasting by a new station, they may receive 5000 verification requests covering some 300 different days. To check each of these reports

carefully would be a tremendous task. Therefore, a canvass to learn how many broadcasters issue only authentic confirmations would undoubtedly bring forth many frank statements to the contrary.

Let's look at the question from another angle. For commercial reasons, it is desirable for a station to maintain the good will of its audience. Regardless of the amount of inadequate or incorrect information received, would it not be "good business" to grant a request for a veri anyhow? I venture to say that many confirmations have been issued in reply to such reports as: "I got your stations on May 15. Please send me a verification in the enclosed stamped envelope." I may be wrong here, but in view of the two items quoted above, I cannot be proven entirely wrong.

It may be discouraging, but it is nevertheless true that radio has passed the "romantic" stage. Business institutions are no longer interested in providing free radio entertainment as an expression of simple good will. By the same token, they can hardly be expected to maintain a clerical staff to inform the general public that their stations have been heard.

The general attitude in this respect is very similar to that of Doctor Brinkley: they desire reports on the coverage of their stations, but make no expensive provisions to acknowledge or certify the correctness of these reports.

From the above line of reasoning and from points raised in RADEX from time to time, I have come to discount the verification system in modern times as a very uncertain proof that stations were actually heard. A conscientious DXer does not need veris to compile a log. The more commercialized radio becomes, the

fewer veris will be sent out and a smaller percentage of these will be authentic.

As an example, after many tedious and discouraging attempts, I recently landed KOH. I can't say how many times I kept a weak station on 1380 for a period, only to be thwarted during an announcement by fading or noise. I do know that I could have made a comprehensive report of the musical selections heard on several occasions, and I probably would have been granted a verification on the basis of such a report.

This veri card would have been accepted by any DXer as proof that I had received KOH. However, for myself, I would have in mind such cases as the WJBK incident mentioned above, and the "veri" wouldn't have meant much to me until I had actually heard the call.

Recently, I was fortunate enough to tune in KOH as they were signing off, and during these ceremonies, the call was repeated several times. At no time was it very clear, but I definitely heard the call twice without any question and now the station is in my log. As this is the only way that a station ever gets into my log, I can point to it and say without qualm that I have heard every station listed.

Speaking of KOH, reception of this station increased my number of states received to 46—Delaware and Wyoming being the only ones missing. Also, since January 1st, I have heard 32 stations which I never had before on the present set. This has been a very gratifying season—and I haven't one verification.

*20998 *Euclid Ave., Euclid, Ohio.*

Announcers of KIRO, Seattle, have started a "feed fund", with members of the speaking crew paying ten cents into the fund each time they are caught in a microphone mistake.



This is Rochelle, one of the two pianists of Phil Spitalny's all-girl orchestra. Rochelle's solo work has brought a flood of compliments to the sponsors of the "Hour of Charm" program on which she is heard each Sunday over the CBS from 6 to 6:30 pm, EDST.

Reception with an A-K 337

By Raymond C. Corbett*

PURCHASING a new receiver offers difficulties. All sets these days are good and regardless of what one buys he will get at least good reception. A set must have appearance, tone, power, and selectivity to satisfy most listeners, and modern receivers have all these requirements; the difference is that these requirements are perfected to a finer degree in some sets. Competition always gives progress a strong push forward, and competition has given to the world the fine radio sets now on the market.

The receiver I selected for my radio journeys around the world is an

Atwater-Kent; the model number is 337 and the tubes are seven in number. Employing an airplane-type dial, it has a tuning range from 540 to 20,000 kcs, covering continuously the standard broadcast band and all the shortwave bands. There are seven tuned circuits, the tone is rich in quality, two-speed selective tuning is provided and each tuning band is automatically lighted. It is the most compact, neat-looking set I have seen for many days.

The first thing anyone notices about this set is its excellent tone. This is unusual in a table model, but I have found that the tone of this receiver equals that of larger and more expensive sets.

After appearance and tone the listener looks for power. The ability to take weak signals from distant stations and present them loudly and clearly to the tuner is ever present in this radio. Stations all over the world are heard regularly with amazing volume. In the United States such stations as WTAM, WMAQ, WLW, WSM, WBBM, WBT and WJZ are heard nearly every night with the power and clarity of locals.

Another feature, and a most important one, is selectivity, and this set seems to have it. On most nights one or more stations can be heard on every channel from 550 to 1500 kcs. At noon, on any day, I can tune in KMTR, 390 miles away, with KFSS and KMJ banging away on both sides. Equal success is had on all shortwave bands.

My location is not very good for shortwaves. The success I have had on the high frequencies I attribute to the metal tubes. High-powered wires run only twenty-five feet away from the aerial and this made satisfactory tuning impossible until recent months. In my estimation metal tubes have an edge on the glass

tubes for shortwave tuning, but there seems to be no noticeable difference on the broadcast band.

Stations in England, France, Germany, Italy, Spain, Japan, Australia, Siberia and various South American countries have been regularly heard. During certain hours the Daventry stations equal the U. S. broadcasters in volume. I have hardly begun to identify the multitude of stations in the 49-meter band.

As for the broadcast band, one could hardly ask for more. WJW, WINS, WPAY, WROL, WDBO, WCAD, WJBK, WEXL, KFQG and others have been heard with excellent signal strength. The first time WNEL in Puerto Rico was heard, its signal equaled that of KFAC on the adjoining frequency. Reception from Hawaii, Alaska, Cuba, Australia, New Zealand, Japan, China, and South and Central America has been enjoyed several times.

When this receiver was purchased, results were expected of it, and I have never regretted the day I bought this set.

*619 Twelfth St., Sacramento, Calif.

The ZENITH 808 Gives Results

● ● ● By Ray W. Sahlbach*

BACK in 1934 I brought home a Zenith table model, 808 to try for the much talked-about shortwave stations. This set first attracted my attention because of its airplane dial and general good looks.

The broadcast band tunes from 550 to 1500 kcs. The next band covers the region from 1500 to 4600 kcs. The third band starts at 5300 kcs., skipping the frequencies which are used principally by the aviation services.

The cabinet of the Zenith 808 stands 16 $\frac{3}{4}$ inches high, 13 inches wide and 9 $\frac{1}{2}$ inches deep, while the airplane dial is three inches in diameter. The slow speed of the dial enables the user to tune the shortwaves very accurately. This receiver employs six tubes, but considering the vast difference in power and cost between this and larger receivers, the Zenith 6-tube set cannot be beaten insofar as reception is concerned. The amplifying and triple filtering systems used in the 808, as well as a two step tone control which is perfectly matched with the speaker, all combine to make this set what I believe to be a perfect instrument for DX.

On the regular broadcast band I have heard 536 stations in every state, including Puerto Rico and Hawaii, but Rhode Island, Delaware and Alaska are missing at this writing.

On the second band, tuning from 1500 to 4600 kcs., I have logged some 300 stations, these being mostly police, Amateurs and aviation stations.

In the third band, the one which tunes the s.w. broadcasting and commercial frequencies, I have heard

The transmitter of 50-watt WEXL at Royal Oak, Mich. WEXL works on 1310 kcs. and participated last February 22nd in the RA-DEX Mystery Contest. This is perhaps one of the most widely heard 50-watt stations in this country



transmitters on every continent, and all the principal countries of the world except India are numbered in my s.w. log. This list includes numerous hard-to-get stations, such as VPD at Suva in the Fiji Islands; RV15, Khabarovsk, USSR; TFJ at Reykjavik, Iceland; PLP in Bandung, Java, Netherland East Indies; and OPM, Leopoldville in the Belgian Congo.

*4423 Alaska St., St. Louis, Mo.

DX-ing for the Blind

By Charles E. Comingore*

BEING a student at the Indiana School for the Blind, an ardent DX enthusiast, and also Editor-in-Chief of the school paper, I have become quite interested in radio as a suitable hobby for the blind.

There are some very good DXers here at the school. Frank Oens of Indianapolis, John Petty of Bridgeport and the writer are members of the Newark News Radio Club; Robert Auter from Covington, Robert Hindebrandt from Brookston and Morris Bitner from Anderson are among the DXers who are not attached to a club. The writer is not totally blind but the other boys, in spite of their handicap, can in most cases tell the call letters, frequency and power of the stations they hear.

The school paper, of which the writer is the Editor, is known as the Indiana Reporter. Each month we try to include an article about radio and DXing, hoping to arouse interest among the blind in this hobby. It is our ambition to reproduce in Braille a club bulletin or part of a DX magazine.

We constantly listen to the radio but never get a chance for any night DXing. We all endorse this hobby as

clean and wholesome indoor sport. Naturally we look forward each month to receiving our copies of R-DEX and the boys get a kick out of it. I have to read it through for them from cover to cover.

**Indiana School for the Blind, Indianapolis.*

Beginning June 15 a series of informal hearings will commence before the Federal Communications Commission to discuss present radio station allocations throughout the entire frequency spectrum. No definite moves will result from the discussions but it is expected much valuable technical information will be advanced by leaders in various radio fields. Visual broadcasting (television) will no doubt be the most important matter under discussion, while ultra-shortwave broadcasting will also receive its share of attention.

Incidentally, broadcast band fa- need not fear an immediate reallocation between 540 and 1550 kcs. because of agreements made at the last International Telecommunications Conference in Madrid. The next conference will be held in Cairo in 1938.

NBC President Lohr's intense interest in the technical side of radio, due probably to his own background as a military engineer, was manifested during the last fortnight in announcing NBC's plan to seek FCC authority to increase the power of WJZ, New York key of the Blue network, to 500,000 watts. The application, which will go to hearing before the Broadcast Division because it involves a question of policy in view of the present limitation of 50,000 watts on the clear channels, cites the need of WJZ to increase its coverage of the metropolitan New York area and the thickly populated nearby sections.

Shall I Use a PRE-SELECTOR?

• • • By B. FRANCIS DASHIELL

MANY of our readers write from time to time asking for information on the construction and use of a pre-selector. It is a device that is connected between the antenna and the radio set. This question arises because it is the fact that a *good* pre-selector is a valuable asset in DX work, and the reception of short waves in particular.

A pre-selector is nothing more than an efficient radio-frequency amplifier and tuner circuit. It picks up the weak antenna signal, tunes it rather sharply, steps up its energy, and delivers it, greatly amplified, to the antenna input terminal of the radio receiver. This pre-amplification means that the antenna signal is made stronger than usual, which is the same as actually taking the receiver many hundreds of miles nearer the transmitting station.

Increases Volume

A good pre-selector or pre-amplifier makes it possible, therefore, to receive with more volume and selectivity, those weak, distant short-wave stations that have been mere whispers, hopelessly shut out by a blanket of atmospheric static. The pre-selector can be placed ahead of any superheterodyne or tuned-radio-frequency set, but its use is confined almost exclusively to the short waves.

According to the "R" scale of rating volume or intensity, those radio signals that are classed as R2 and R3 can just barely be heard and are difficult to understand. But a good pre-selector system may bring many of these signals, at times, up to as high as R5, R6 and even R7! With a good design of coils and parts it is also practicable to secure good r-f amplification of frequencies as high as 25,000 kilocycles (25 megacycles). Often signals that normally are just

barely audible have been increased to comfortable room volume.

Factory-Designed Kits

Now that the summer season is here, perhaps many of the readers of RADEX will wish to make use of the dull radio season and assemble a pre-selector unit so as to be ready for those elusive DX signals when cold, clear weather arrives again. RADEX, because of its general nature, will not go into constructional details because it believes that an efficient pre-selector unit can be assembled from some of the manufactured kits. Sometimes the mere following of a diagram with some wire and parts cannot build such a delicate and balanced device as a radio-frequency amplifier.

RADEX suggests, instead, that its readers procure a kit containing the few parts which can quickly be connected together. There are several factory-designed pre-selectors which are very good, but a kit offers the opportunity to construct the unit without the grief and annoyance that accompanies such work. Then, too, the cost of a kit and doing the work yourself is very nominal.

The Miller Pre-Selector

After a study of the kits available RADEX presents a brief description of the Miller 3-tube kit. It contains an assembled antenna coil, r-f amplifier coil, r-f choke coil, three dual trimmer condensers, and a 6-pole 5-position wave-band change switch. These have been designed to work together for greatest efficiency, but any of the other parts, such as dial, transformers, tuning condensers, etc., may be purchased locally for they need not follow exact specifications.

The elimination of "image" frequency or repeat points in short-wave

superheterodynes seems almost impossible, but when some kind of pre-selector is used ahead of the detector-oscillator tube this trouble frequently can be prevented. And foreign stations, which are received fairly strong but cannot be understood without some type of pre-selection, due to the image-frequency interference from CW stations on the 49-meter band, can be cleared up very nicely.

High Gain Coils

This pre-selector is simple to operate; it has two stages of tuned radio-frequency amplification with high gain and low-loss coils; it eliminates image frequency; operates from single-wire or doublet antennas; has a fool-proof wave-band switch, powerful output system, and a self-contained power supply. It is possible to switch the antenna away from the pre-selector direct to the radio receiver by turning the wave-band switch.

The high-gain coils are designed to cover the frequency bands from 12 to 200 meters, and also provision is made on the band switch to facilitate the incorporation of broadcast or long-wave coils. These coils provide extremely high gain on all frequencies, and maximum induction takes place between the primary and secondaries with the utmost selectivity.

Works With Any Set

The chassis layout has provision for a self-contained power supply. This greatly increases the convenience of the unit, for it is only necessary to plug the entire pre-selector into the nearest AC outlet. The pre-selector is impedance coupled to the receiver with an output choke coil and a carefully selected condenser, so as to assure maximum transfer of energy.

The pre-selector can be used with any short-wave or all-wave receiver, as well as the older types, provided the short-wave portion lies between



Among the many stations participating in the RADEX Contest last February was KFNH at Shenandoah, Iowa, which works on 890 kcs.

12 and 200 meters. It does not work well below 12 meters for the ultra-short wave bands. The first and second radio-frequency amplifier tubes are both either 58s or 6D6s, according to the filament voltage it is desired to use. A type 80 is utilized as the rectifier.

In addition to the kit, which comes with complete instructions for building and operating, there is a chassis that is especially designed for use with the coils and parts. It has all necessary holes punched and requires no drilling. However, most any similar chassis may be used—even one from some old set with the power-pack intact. The most essential single item to be observed is a metal shield which must be located between the band-change switch, r-f coil, and trimmer condensers. This shield prevents capacity coupling between the tuned antenna circuit and the r-f circuit.

(Information as to cost and assembly of this kit may be procured from your local dealer or by addressing the J. W. Miller Co., 5917 South Main Street, Los Angeles, Calif., and mentioning RADEX).

WGRC is the call assigned to North Side Brdcastg. Co., New Albany, Ind., for a 250-watt daytime station on 1370 kc.

The Ultra-High Band

THE first application ever filed for "super-power" on the ultra-high frequencies was submitted to the FCC April 28 by Maj. Edwin H. Armstrong, noted inventor of the feedback and superheterodyne circuits. He asked for 40,000 watts peak power for a general experimental station in New York City to operate on the channels above 41,800, 86,500 and 111,000 kc.

Developer of the so-called "wave spreader" embracing a radically new system of frequency modulation, Maj. Armstrong seeks the 40 kw. experimental station to permit him to complete an elaborate developmental program he has outlined to test the efficacy of his "spectrum conserver" method.

Maj. Armstrong advances the theory that with power of 40,000 watts on the ultra-high frequencies, coverage exceeding that procured with 500,000 watts on the conventional broadcast band can be procured. Moreover, he contends that the quality of the transmission is infinitely better. To accomplish this transmission, a band width of about 150 kc. is needed, which is a dozen times broader than the bands normally used.

A new experiment in synchronization of broadcasting stations, under which the "mother" station will have its signals intensified by the use of a "booster", was approved April 24 by the FCC. It granted the application of WLLH, Lowell, Mass., to install a booster at Lawrence, Mass., 9 miles distant to operate on the same frequency of 1370 kc., with variable power of 10 to 100 watts. The experiment is until July 1, with likelihood of renewal. It is the first time the FCC has ever authorized synchronization on a local channel.

Three more new stations have been authorized by the FCC. The *Democrat-News* of Lewistown, Mont. has a construction permit to erect a station to work on 1200 kcs with 100 watts full time. (We hope no one writes in to correct us on the spelling of Lewistown; we always thought it was Lewiston until we looked it up in the Postal Guide.) The *Abilene* (Texas) *Reporter* will work on 1420 with 100 watts full time when construction is completed, and Mr. James R. Doss, Jr., owner of a station in Decatur, Ala. has been granted permission to erect a broadcaster in Tuscaloosa on 1200 kcs.

* * *

The new Hawaiian radio station, KHBC at Hilo, was formally dedicated as this issue of RADEX went to press. This station is owned by the same concern that operates KGMB in Honolulu, and the two stations are exact duplicates throughout except that the Hilo transmitter is rated at only 250 watts while the one in Honolulu uses 1 kilowatt. The studios of these two buildings are made of sugar cane.

* * *

WNOX, Knoxville, Tenn., operated by Continental Radio Co., Scripps-Howard Newspapers subsidiary, has leased a building in the business section of the city to house its new studios. The five-story building, leased for five years, will house an auditorium studio seating 850 and will have three other studios and a client audition room as well as business offices.

* * *

Operation with 5,000 watts daytime was begun April 28 by WSPD, Toledo, marking the second power increase for the station within a year. Last August the station, a CBS outlet, installed a new Western Electric transmitter, together with a vertical radiator, and increased its power from 1,000 to 2,500 watts by FCC authority.

Network Changes

A NUMBER of changes in Network affiliations are expected to take place during the next six or seven months. Information on ten of these stations is available now and is given here. The dates of the changes are approximate; the actual changes will be made as soon as present commitments have expired.

KMJ, Fresno, Calif., will change from the CBS-Don Lee Network to the NBC Red and Blue about Jan. 1, 1937.

WEEL, Boston, Mass., now on the NBC will become a CBS outlet about April 1, 1937.

WICC, Bridgeport, Conn., will broadcast Blue Network programs after Jan. 1st. Now on the CBS.

WPRO, Providence, R. I., now on the Yankee Network, will join the CBS about Jan. 1.

WEAN, Providence, will go from the CBS to the Blue about Jan. 1.

KWG, Stockton, Calif., Don Lee to Red and Blue, Jan. 1.

WNAC in Boston will change from the CBS to the Red about October 10, 1936.

In Bakersfield, Calif., KERN

changes from CBS to the Blue about Jan. 1.

KOH, Reno, Nevada, long a CBS outlet, will join the NBC about Feb. 15, 1936.

KFBK in Sacramento, Calif., goes to the NBC about Jan. 1.

THE MONTH'S CHANGES IN STATION DATA

NEW		
610	XEXM	Mexico City, D. F.
650	TIGPH	San Jose, Costa Rica
780	KIHE	Los Angeles, Calif.
800	TIX	San Jose, Costa Rica
1200	KVCV	Redding, Calif.
.....	.....	Lewistown, Mont.
.....	.....	Tuscaloosa, Ala.
.....	.....	Waycross, Ga.
1210	.....	St. Augustine, Fla.
.....	.....	Wichita, Kans.
1220	TIVCA	San Jose, Costa Rica
1370	WGRC	New Albany, Ind.
.....	.....	St. Paul, Minn.
1420	.....	Ablene, Texas
1500	.....	Big Spring, Texas
.....	.....	New London, Conn.
.....	.....	Paris, Texas
FREQUENCIES		
960	CHNC	New Carlisle, P. Q., from 1410
1070	CMBX	Havana, Cuba, from 1060
1340	XEPE	Nuevo Laredo, Tams, from 850
POWER		
960	CHNC	New Carlisle, P. Q., 1000 from 500
1070	CMBX	Havana, Cuba, 500 from 200
1120	CMKM	Manzanillo, Cuba, 50 from 200
1320	CMOX	Havana, Cuba, 200 from 250
CALL LETTERS		
1370	KCMO	Kansas City, Mo., from KWKC
DELETE		
600	WCAC	Storrs, Conn.
780	KELW	Burbank, Calif.
.....	KTM	Los Angeles, Calif.
930	KGBZ	York, Nebr.

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: ED Eastern Daylight; E Eastern; C Central; M Mountain
For Pacific Time subtract one hour from Mountain.

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.

Due to change to Daylight Saving Time on April 26, some of the stations listed will be unable to carry particular features.

MONDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Buck Rogers 25th Century
 WAAB WABC WBBM WCAO WCAU
 WFBL WHK WJAS WJSV WKBW
 WKRC WOKO

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — Bobby Benson — Sunny Jim
 WAAB WABC WCAU WDRG WEAN
 WFBL WGR WHEC WOKO

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — Renfrew of the Mounted
 KFAB KFH KLRA KMBC KMOX
 KOMA KRLD KRNT KSCJ KTUL
 KWKH WAHC WADC WBBM WBNS
 WCCO WDRG WFBM WGR WHEC
 WHK WIBX WICC WISN WJW
 WJSV WKBN WMAZ WMBG WNAC
 WNBH WOC WREC WSMK WSPD
 WVVV

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

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C — Ann Leaf at the Organ
 CFRB KFH KFPY KGKO KLZ
 KOH KOMA KRLD KSCJ KTRH
 K TSA KFOR WABC WACO WALA
 WBIG WDRG WCAO WDAE WDBJ
 WDBO WDRG WEAN WESG WFBM
 WFBM WFLA WGR WHP WJAS
 WKRC WLAC WLWB WNAC WOC
 WORC WQAM WREC WSJS WSMK
 WSPD WTOG

R — Amos 'n' Andy
 KYW WBEN WCAE WCHS WEAF
 WEEI WFBR WGY WJAR WLW
 WMAQ WRC WTAG WTIC

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
R — Uncle Ezra's Radio Station
 KPRC KTBS KTHS KVOO KYW
 WBAP WBEN WCAE WCKY WCHS
 WDAF WEAF WEEI WFBR WGY
 WHIO WIRE WJAR WKY WMAQ
 WOAI WOOD WOV WRC WSAI
 WTAG WTAM WTIC

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Ted Husing and Charlottees
 KDB KERN KFAB KFBC KFPY
 KFRC KGB KHJ KMJ KMOX KOIN
 KOL KSL KVI KWG WABC WBBM
 WCAO WCAU WCCO WEAN WFBL
 WFBM WGR WHK WJAS WJR
 WJSV WKRC WNAC WOKO

B — Lum and Abner
 WBZ WBZA WENR WJZ WLW
 WMC WSM WSYR

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
C — Boake Carter
 KMBC KMOX KOMA KRLD WABC
 WBBM WBT WCAO WCAU WCCO
 WDRG WEAN WFBL WGR WHAS
 WIJK WJAS WJR WJSV WKRC
 WNAC

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Guy Lombardo and Orchestra
 KLRA KWKH WABC WBIG WBT
 WCAI WCAU WCHS WCSB WDBJ
 WJNC WDOE WDRG WEAN WFBC

WFBL WGR WHEC WHP WIBX
 WICC WJAS WJSV WLAC WLWB
 WMAZ WMBG WNAC WNBC WNOX
 WOKO WORO WPG WRIC WSJS
 WWL WWVA

R — Hammerstein's Music Hall
 KSD KYW WBEN WCAE WCHS
 WDAF WEAF WEEI WFBR WGY
 WHIO WHIO WJAR WMAQ WOV
 WRC WSAI WTAG WTAM WTIC
 WWJ

B — Fibber McGee and Molly
 KDKA KDYL KFI KFSD KFYR
 KGW KHQ KOA KOIL KOMO KPO
 KPRC KSO KSTP KTBS KTHS
 KVOO KWK WBAL WBZ WBZA
 WDAY WEBC WFAA WFLA WGAR
 WHAM WIBA WIRE WJDX WJZ
 WKY WLS WMAL WMC WMT
 WOAI WREN WSB WSM WSMB
 WSYR WTAM WXYZ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Pick and Pat
 KFAB KMBC WABC WADC WBBM
 WBT WCAO WCAU WDRG WEAN
 WFBL WGR WGST WHEC WHK
 WHK WICC WJAS WJR WJSV
 WKRC WLWB WMAZ WNAC WOKO
 WORC WSPD

R — Voice of Firestone
 CFBC CRCT KFYR KPRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBEN WCAE WCSC WCHS WDAF
 WDAY WEAF WEBC WEI WFAA
 WFBC WFRB WFLA WGY WHO
 WHIO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WMAQ
 WMC WOAI WOV WPTF WRC
 WRVA WSB WSM WSMB WSOC
 WTAG WTAM WTAR WTIC WTMJ
 WWJ WYCN

B — Evening in Paris
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WCKY WFLA WGAR WHAM
 WJZ WLS WMAL WMT WREN
 WSYR WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-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 K TSA KTUL KVI KWG
 WABC WADC WBBM WBNS WBRG
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDRG WEAN WFBL WFBM
 WGST WHAS WHEC WHK WICC
 WISN WJAS WJR WJSV WKBW
 WKRC WLAC WNAC WNAX WOKO
 WORC WQAM WREC WWL

R — A. & P. Gypsies
 KSD KYW WBEN WCAE WCHS
 WDAF WEAF WEEI WGY WHO
 WHIO WIRE WJAR WMAQ WOV
 WRC WSAI WTAG WTAM WTIC
 WWJ

B — Sinclair Greater Minstrels
 KDKA KDYL KFYR KOA KOIL
 KPRC KSO KSTP KTBS KTHS
 KVOO KWK WBAL WBZ WBZA
 WDAY WEBC WFAA WFLA WGAR
 WHAM WIBA WIOD WIS WJAX
 WJDX WJZ WKY WLS WLW WMAL
 WMC WMT WOAI WPTF WREN
 WRVA WSB WSM WSMB WSOC

WSUN WSYR WTAR WTMJ WWNC
 WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
R — Sigmund Romberg; Barrymore
 KDYL KFI KFYR KGW KHQ
 KOA KOMO KPO KPRC KSD KSTP
 KTBS KTHS KVOO KYW WREN
 WCAE WCHS WDAF WDAY WEAF
 WEBC WEI WFAA WFLA WGY
 WHIO WIBA WJAR WKY WLW
 WMAQ WOAI WOV WRC WTAG
 WTAM WTIC WTMJ WWJ

B — A Tale of Today
 KDKA KOIL KSO KWK WBAL
 WBZ WBZA WCKY WENR WFLA
 WGAR WHAM WJZ WMAL WMT
 WREN WSYR WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
R — Contented Program
 CFBC CRCT KDYL KFI KGW
 KHQ KOA KOMO KPO KPRC KSD
 KYW WBEN WCAE WCHS WDAF
 WEAF WEI WFRB WFLA WGY
 WHO WIOD WIS WJAR WJAX
 WKY WMAQ WMC WOAI WOV
 WPTF WRC WRV VA WSB WSM
 WTAG WTAM WTAR WTIC WWJ
 WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — The March of Time
 KDB KERN KFAB KFBC KFPY
 KFRC KGB KHJ KLZ KMBC KMJ
 KMOX KOIN KOL KRLD KRNT
 KSL KVI KWG WABC WADC
 WBBM WBT WCAO WCAU WCCO
 WDAE WDBO WDRG WEAN WFBL
 WFBM WGST WJAS WHEC WHK
 WJAS WJR WJSV WKBW WKRC
 WNAC WNOX WQAM WSPD WWL

ED-10:45 p.m., E-9:45, C-8:45, M-7:45
C — Public Opinion
 KERN KFBC KFH KFPY KFRC
 KGB KGKO KHJ KMBC KOH KOL
 KSCJ KTRH K TSA KFOR WAAB
 WABC WALA WBBM WBIG WBNS
 WBRG WCAO WDAE WDBJ WDBO
 WDRG WFBL WFBM WFLA WGR
 WHP WIBX WIBC WICC WJAS
 WKRC WLAC WLWB WMBD WMBG
 WMBR WOC WOKO WORC WPG
 WQAM WREC WSBT WSJS WSPD
 WTOG

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Dance Orchestra
 CFRB CKAC WAAB WABC WADC
 WCAO WCAU WDRG WFBL WFEA
 WHBC WHK WIBX WJAS WKBN
 WKBW WLWB WMAZ WOKO WORC
 WPG WSBT WSPD

R — Amos 'n' Andy
 KDYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSD WBAP WDAF
 WHO WKY WLW WMC WOAI WOV
 WSB WSM WSMB WTAM WWJ

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Renfrew of the Mounted
 KDB KERN KFBC KFPY KFRC
 KGB KHJ KMJ KOIN KOL KSL
 KVI KWG

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Dance Orchestra
 CFRB CKAC KLRA WAAB WABC

MONDAY (Continued)

WADC WALA WBNS WBRC WIT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDOO WDRC WEAN WFBL
WFBI WFEE WGST WHAS WHFC
WHK WIBX WICC WJAS WJR
WJSV WKBN WKWB WKRC WLAC
WLBZ WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Pick and Pat

KDB KERN KFBC KFPY KFRK
KFB KGKO KHJ KLRA KLZ KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTUL KVI KWG
KWKH WACO WBRB WCCO WFBM
WHAS WLAC WREC

R — Voice of Firestone

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

TUESDAY

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

C — Benay Venuta, Songs

KFH KGKO KLRA KLZ KMBC
KOMA KRLD KRNT KSCJ KTRH
KTSa KVOR KWKH WABC WACO
WALA WBBM WBIG WBRB WCAO
WCAU WDAE WDBJ WDBO WDNC
WDOO WDRC WEAN WESG WFBL
WFEE WGR WGST WHEC WHP
WHK WJBX WKBN WLAC WLBZ
WMAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WQAM
WREC WSBT WSJS WSMK WSPD
WTOC WWL

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

C — News of Youth

KMOX WABC WADC WBBM WBNS
WCAO WCAU WDRC WEAN WFBL
WHK WIBX WICC WJR WKBN
WLBZ WNAC WOKO WORC WWVA

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

B — Lowell Thomas, See Monday

C — Renfrew of the Mounted

KFAB KFH KLRA KMBC KMOX
KOMA KRLD KRNT KSCJ KTUL
KWKH WJRC WADC WBBM WBNS
WCCO WDRC WFBM WGR WHEC
WHK WIBX WICC WISN WJR
WJSV WKBN WMAS WMBG WNAC
WNBH WOC WRC WBSK WSPD
WWVA

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

R — Amos 'n' Andy, See Monday

B — Easy Aces

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

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

C — Krueger Musical Tost

WABC WBIG WBT WDAE WDBJ
WDBO WDNC WDRC WEAN WFBL
WFEE WGR WGST WHAS WICC
WJSV WLAC WMAS WMBG WMBR
WNAC WNBFB WNOX WOKO WORC

R — Human Side of the News

KSD KYW WREN WCAE WCKY
WCBS WDAF WFAE WVEE WFBR
WGY WHIO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

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

C — Kate Smith

KFAB KMBC KMOX KRLD KRNT
KTRH WABC WADC WBEM WBIG
WBNS WDBR WBT WCAO WCAU
WCCO WDAE WDRC WEAN WFBL
WFBI WGR WGST WHAS WHK
WJAS WJR WJSV WKBN WKRC
WLHZ WMAS WMBG WMBR WNAC
WOKO WORC WWL WWVA

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Lazy Dan, Minstrel Man

CFRB KFAB KMOX KOMA KRNT
WABC WADC WBBM WBNS WBRB
WBT WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WMAS WMBG WNAC WOKO
WSPD WWL

R — Leo Reisman and Orchestra

KFYR KPRC KSD KSTP KTHS
KV00 KYW WAVE WBAP WBEN
WCAE WCBS WDAF WDAY WFAE
WFBC WVEE 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 WTIC WTMJ
WWJ WWNC

B — Eno Crime Clues

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

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

C — Russ Morgan; Ken Murray

CFRB KDB KERN KFAB KFBC
KFPY KFRK KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSL KTRH
KTSa KTUL KVI KWG WABC
WADC WBBM WBNS WBRB WBT
WCAO WCAU WCCO WDAE WDBJ
WDRC WEAN WFBL WFBM WGR
WGST WHAS WHEC WHK WICC
WISN WJAS WJR WJSV WKRC
WLAC WNAC WNAX WOKO WORC
WQAM WREC WSPD WWL

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTHS
KV00 KYW WAVE WBAP WBEN
WCAE WCKY WCBS WDAF WDAY
WFAE WFBC WVEE WFBR WFLA
WGY WHO WIBA WIRE WJAR
WJAX WJDX WKY WLV WMAQ
WMC WOAL WOOD WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WSNW WTAG WTAM WTAR
WTOC WWL

B — Edgar Guest, Welcome Valley

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

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

C — Walter O'Keefe; Glen Gray

KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSa KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRB WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOO WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBX WIKC WJAS
WJR WJSV WKBN WKBW WKRC
WLAC WLBZ WMAS WMBD WMBG

WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC WWL

R — Vox Pop; Sidewalk Interviews

KSD KYW WBMN WCAE WCKY
WCBS WDAF WFAE WVEE WFBR
WGY WHO WHIO WIRE WJAR
WMAQ WOW WRC WTAG WTAM
WTIC WWJ

B — Ben Bernie and Orchestra

KDKA KDYL KFI KFSD KFYR
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTAR KTHS
KTHS KV00 KWK WAVE WBAL
WBAP WBT WBZA WDAY WEBC
WFIL WFLA WGAR WHAM WIBA
WIOD WIS WJAX WJDX WJZ
WKY WLS WLW WMAL WMC
WMT WOAI WPTF WREN WRVA
WSB WSM WSMB WSOC WSYR
WTAR WTMJ WWNC WXYZ

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

C — Fred Waring's Pennsylvanians

CFRB CKAC KFAB KFH KGKO
KRLD KRNT KSL KTRH KTSa
KTUL KVOR KWKH WAAC WACO
WADC WALA WBBM WBIG WBNS
WBRB WBT WCAO WCCO WCCO
WCOA WDAE WDBJ WDBO WDNC
WDOO WDRC WEAN WFBL WFBI
WFEA WGST WHAS WHEC WHK
WHP WIBX WIKC WISN
WJAS WJR WJSV WKBN WKBW
WKRC WLAC WLBZ WMAS WMBD
WMBG WMBR WNAC WNAX
WNFB WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC WMTN

R — Ed Wynn; Lennie Hayton

KDYL KFI KFYR KGHJ KGIR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTHS KV00
KYW WAVE WBAP WBEN WCAE
WCBS WCHS WDAF WDAY WFAE
WFBC WVEE WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLV WMAQ
WMC WOAL WOOD WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WSNW WTAG WTAM WTAR
WTOC WTMJ WWJ WWNC

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

C — Parties at Pickfair

KDB KERN KFAB KFBC KFH
KFPY KFRK KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSL KTRH
KTSa KTUL KVI KWG KWKH
WABC WACO WADC WBBM WBNS
WBIC WBT WCAO WCAU WCCO
WDAE WDBJ WDOO WDRC WFBL
WFBM WGST WHAS WHEC WHK
WIBX WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WMAS
WMBG WMBR WNAC WNBFB
WOKO WQAM WREC WSMK WSPD
WTOC WWL

R — Elgin Swing Time Revue

KDYL KFI KFYR KGW KHQ
KOMO KPO KPRC KSD KSTP
KTHS KTHS KYW WAPI WAVE
WDAF WDAY WFAE WCKY WCBS
WDAF WDAY WFAE WFBC WVEE
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG

TUESDAY (Continued)

WTAM WTAR WTIC WTMJ WWJ
WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — March of Time, See Monday

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Dance Orchestra
CKAC WAAB WABC WADC WCAO
WCAU WDRC WFHL WFEA WHEC
WHK WTBX WJAS WJSV WKRW
WLBZ WMAS WOKO WORC WSBT
WSPD

R — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Renfrew of Mounted, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Dance Orchestra
CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBBM WBNS
WBRC WBT WCAU WCCO WDAE
WDBJ WDBO WDNC WDOE WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHFC WHK WIBX WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLBZ WMAS WMBD
WMBR WMBR WNAX WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

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
KGV KHQ KOA KOMO KPO KTAR

ED-12:00p.m., E-11:00, C-10:00, M-9:00
C — Fred Waring's Pennsylvanians
KDB KERN KFBK KFPY KFRC
KGB KHJ KMJ KOH KOIN KOL
KVI KWG

WEDNESDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Buck Rogers, See Monday

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

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — Renfrew of Mounted, See Mon.

B — Lowell Thomas, See Monday

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

B — Easy Aces, See Tuesday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
R — Uncle Ezra, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Kate Smith, See Tuesday

B — Lum and Abner, See Monday

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

C — Renfrew of Mounted, See Mon.

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Cavalcade of America
KDB KERN KFBK KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WACO
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV

WKRC WLAC WMBG WNAC WOKO
WSPD WWL

R — Your Hit Parade

KDYL KFI KFYP 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
WQAI WOW WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WWJ WWNC

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Burns and Allen

CKAC KFAB KFH KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSa KTLU KWKH WABC
WADC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRC WEAN WFBL WFBM
WFEA WGR WGST WHAS WHEC
WHK WHP WIBW WIBX WICC
WJAS WJR WJSV WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WVWL

R — Wayne King, See Tuesday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Chertierfield Program

KDB KERN KFBK KFBK KFH
KFPY KFRC KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSa KTLU KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDGB WDBO WDNC WDOE WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNBFWNOX
WOC WOKO WORC WOW WPG
WQAM WREC WSFA WSJS WSPD
WTOC WWL

R — Town Hall; Fred Allen

KFYR KFRC KSD KSTP KTBS
KTBS 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 WQAI WOW WPTF WRC WSB
WSM WSMB WSOE WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Ray Noble and Orchestra

CFRB KDB KERN KFBK KFBK
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSa
KTLU KVI KWG KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDOE WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJR WJSV WKBW WKBW WKRC
WLAC WLBZ WMBD WMBG
WMBR WNAC WNOX WOC WOKO

WORC WOWO WPG WQAM WREC
WSFA WSPD WTOC WWL

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

C — Crime Crusade; Phil Lord
KFAB KLZ KMBC KMOX KOMA
KRLD KRNT KSL KTRH KTSa
KTLU KWKH WAAB WABC WBBM
WBNS WBRC WBT WCAO WCAU
WDBL WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WGR
WHAS WHEC WHK WJAS WJR
WJSV WKBW WKRC WLAC WMBG
WMBR WOKO WORC WOWO
WQAM WREC WTOC WWL

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — March of Time, See Monday

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

R — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Renfrew of Mounted, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Dance Orchestra

CKAC KLRA WAAB WABC WADO
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOI
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 KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KVOR KWG

ED-12:00p.m., E-11:00, C-10:00, M-9:00
R — Town Hall; Fred Allen

KDYL KFI KGV KHQ KOA KOMO
KPO

THURSDAY

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — News of Youth, See Tuesday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — Renfrew of Mounted, See Mon.

B — Lowell Thomas, See Monday

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

B — Easy Aces, See Tuesday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Musical Toast, See Tuesday

R — Edwin C. Hill, See Tuesday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Kate Smith, See Tuesday

B — Lum and Abner, See Monday

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Chrysler Airshow

KDB KERN KFBK KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSL KTRH KTSa KVI KWG
KWKH WABC WBBM WBNS WBT
WCAO WCAU WCCO WDAE WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHEC WHK WJAS WJR
WJSV WKRC WMBR WNAC WOKO
WQAM WWL

THURSDAY (Continued)

R — Rudy Vallee's Variety Hour
 CFCF CRCT KDYL KFI KFYR
 KGW KHQ KOA KOMO KPO KSD
 KSTP KTAR KYW WBNB WCAE
 WCSH WDAF WDAY WFAF WEBC
 WEEL WFBR WGY WHO WJAR
 WLW WMAQ WOW WRC WTAG
 WTAM WTMJ WTMJ WWJ

B — Pittsburgh Symphony
 KDKA KOIL KPRC KSO KTBS KWK
 WAPI WAVE WBAL WBZ WBZ
 WBZA WCKY WENR WFAA WFIL
 WFLA WGAR WHAM WIOD WIRE
 WIS WJAX WJDX WJZ WKY WLS
 WMAL WMC WOAI WPTF WREN
 WRVA WSB WSM WSMB WSOE
 WSNW WSYR WTAR WVMC WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-6:30
C — Walter O'Keefe, See Tuesday

R — Maxwell House Show Boat
 KDYL KFI KFSD KFYR KGHJ
 KGIR KWK KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 WJS WAPI WAVE WBAP WBNB
 WCAE WCSH WDAF WDAY WFAF
 WEBC WEEL WFBR WFLA WGY
 WHO WHO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WMAQ
 WMC WOAI WOW WPTF WRC
 WRVA WSAI WSB WSM WSMB
 WSOE WTAG WTAM WTAR WTMJ
 WTMJ WWJ WVMC

B — Death Valley Days
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WFIL WGAR WHAM WJZ
 WLS WLW WMAL WMT WREN
 WSYR WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Stoopnagle and Budd

KDB KERN KFAB KFBK KFI
 KFPY KPRC KGB KBKO KIJ
 KLRA KLZ KMBC KMLJ KMOX
 KOIN KOL KOMA KRLD KRNT
 KSCJ KSL KTRH KTSa KTL KVI
 KVOR KWG KWKH WABC WCAO
 WADC WALA WBBM WBG WBNS
 WBRC WBT WCAO WCAU WCCO
 WDAE WDJJ WDBO WDNC WDOD
 WDRG WEAN WFBL WFBM WFEA
 WGST WHAS WHC WHK WHP
 WIBW WIBX WICC WISN WJL
 WJR WJSV WKBN WKBW WKRC
 WLAC WLBZ WMAS WMBD WMBG
 WMBR WMMN WNAC WNAX
 WNBW WNOX WOC WOKO WORC
 WQAM WREC WSFA WSJS WSPD
 WTCO WTL

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Horace Heidt and Orchestra

KDB KERN KFAB KFBK KFI
 KFPY KPRC KGB KIJ KLRA KLZ
 KMBC KMLJ KMOX KOIN KOL
 KRLD KRNT KSL KTRH KTSa
 KTL KVI KWG WABC WBBM
 WBNB WBRC WBT WCAO WCAU
 WCCO WDBO WDRG WFBL WFBM
 WGST WHAS WHK WISN WJL
 WJR WJSV WKBW WKRC WLAC
 WMBG WNAC WNAX WOC WOKO
 WQAM WRFC WTL

R — Bing Crosby; Jimmy Dorsey
 CFCF CRCT KDYL KFI KFYR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KTHS KTHS
 KVGO KYW WAVE WBAP WBNB
 WCAE WCSH WDAF WDAY WFAF
 WEBC WEEL WFBR WFLA WGY
 WHO WIBA WIOD WIS WJAR

WJAX WJDX WKY WLW WMAQ
 WMC WOAI WOW WPTF WRC
 WRVA WSB WSM WSMB WSOE
 WTAG WTAM WTAR WTMJ WTMJ
 WWJ WVMC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — March of Time, See Monday

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Dance Orchestra

WAAB WABC WADC WCAO WCAU
 WFLB WHK WIBX WJSV WKBN
 WKRW WLBZ WMAS WOKO WORC
 WPG WSBT WSPD

R — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Renfrew of Mounted, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Dance Orchestra

CFRB CKAK KLRA WAAB WABC
 WADC WALA WBNS WBRC WBT
 WCAO WCAU WDAE WDJJ WDBO
 WDNC WDOD WDRG WEAN WFBL
 WFBM WFEA WGST WHAS WHC
 WHK WIBX WICC WJAS WJR
 WJSV WKBN WKBW WKRC WLAC
 WLBZ WMAS WMBG WMBR WNOX
 WOKO WORC WQAM WREC WSBT
 WSJS WSMK WSPD WTCO

C — Walter O'Keefe, See Tuesday

FRIDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Buck Rogers, See Monday

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

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — Renfrew of Mounted, See Tues.

B — Lowell Thomas, See Monday

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
R — Uncle Ezra, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Paris Night Life

KFAB KRNT WAHC WBBM WBT
 WCAO WCAU WDRG WFRM WFBL
 WGR WHK WJAS WJSV WKRC
 WNAC WOKO WORC WTL

B — Lum and Abner, See Monday

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Flying Red Horse Tavern

KFAB KFI KMBC KMOX KRNT
 WABC WADC WBBM WBNS WCAO
 WCAU WCCO WDC WEAN WFBL
 WFBM WGR WHAS WHC WHK
 WIBW WICC WJAS WJR WJSV
 WKRC WLBZ WMAS WMBD WNAC
 WOC WOKO WORC WSPD

R — Cities Service Concert

CRCT KFYR KOA KPRC KSD
 KSTP KTBS KTHS KVOO KYW
 WBAP WBNB WCAE WCSH WDAF
 WDAY WFAF WEBC WEEL WFAA
 WFBR WGY WHO WHO WIBA
 WIOD WJAR WKY WMAQ WOAI
 WOW WRC WRVA WSAI WTAG
 WTAM WTMJ 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

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

KDB KERN KFAB KFBK KFI
 KPRC KGB KIJ KLZ KMBC KMLJ
 KMOX KOIN KOL KOMA KRNT
 KSL KVI KWG WABC WADC
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDRG WEAN WFBL
 WFBM WGR WGST WHAS WHK
 WJAS WJR WJSV WKRC WMAS
 WMBG WNAC WOKO WSPD WTL

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Hollywood Hotel

CFRB CKAK KDB KERN KFAB
 KFBK KFI KFPY KPRC KGB KIJ
 KLRA KLZ KMBC KMLJ KMOX
 KOIN KOL KOMA KRLD KRNT
 KSCJ KSL KTRH KTSa KTL KVI
 KVOR KWG KWKH WABC WADC
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDAE WDJJ WDBO
 WDRG WEAN WFBL WFBM WFEA
 WGST WHAS WHC WHK WHP
 WIBW WIBX WICC WJAS WJR
 WJSV WKRW WKRC WLAC WLBZ
 WMAS WMBD WMBG WMBR
 WNAC WNAX WNOX WOKO WORC
 WPG WQAM WREC WSPD WTL

R — Frank Munn; Bernice Claire
 KSD KYW WBNB WCAE WCSH
 WDAF WFAF WEEL WFBR WGY
 WJAR WLW WMAQ WOW WRC
 WTAG WTAM WWJ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
R — True Story Court

KSD KYW WBNB WCAE WCSH
 WFAF WEEL WFBR WGY WHO
 WHO WJAR WMAQ WOW WRC
 WTAG WTAM WTMJ WWJ

B — Fred Waring's Pennsylvanians
 KDKA KDYL KFYR KOA KOIL
 KPRC KSO KSTP KTBS KTHS
 KWK WAPI WAVE WBAL WBZ
 WBZA WCKY WDAY WEBC WENR
 WFAA WFIL WFLA WGAR WHAM
 WHO WIBA WIOD WIRE WIS
 WJAX WJDX WJZ WKY WMAL
 WMC WMT WOAI WOOD WPTF
 WREN WRVA WSB WSM WSMB
 WSOE WSYR WTAR WTMJ WVMC
 WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Andre Kostelanetz

KDB KERN KFAB KFBK KFI
 KFPY KPRC KGB KGKO KGBM
 KHJ KLRA KLZ KMBC KMLJ KMOX
 KOH KOIN KOL KOMA KRLD
 KRNT KSCJ KSL KTRH KTSa
 KTL KVI KVOR KWG KWKH
 WABC WACO WADC WALA WBBM
 WBG WBNS WBRC WBT WCAO
 WCAU WCCO WCOA WDAE WDJJ
 WDBO WDNC WDOD WDRG WEAN
 WFBL WFBM WFEA WGST WHAS
 WHC WHK WHP WIBW WIBX
 WICC WISN WJAS WJR WJSV
 WKBW WKRC WLAC WLBZ WMAS
 WMBD WMBG WMBR WNAC
 WNAX WNBW WNOX WOC WOKO
 WORC WOW WPG WQAM WREC
 WSFA WSJS WSMK WSPD WTCO
 WTL

FRIDAY (Continued)

R — Richard Himber and Orchestra
 KDYL KFYP KOA KPRC KSD
 KSTP KTBS KTHS KYW WBBN
 WCAE WCSH WDAF WDAY WEAF
 WECB WEEL WFAA WFBP WGY
 WHO WIBA WJAR WKY WLW
 WMAQ WQAI WOV WORC WTAG
 WTAM WTIC WTMJ WWJ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — March of Time, See Monday
R — Marion Talley and Orchestra
 KDYL KFI KFYP KGW KHQ KOA
 KOMO KPO KSD KSTP KYW WBBN
 WCAE WCSH WDAF WDAY WEAF
 WECB WEEL WFBP WGY
 WHO WIBA WIRE WJAR WMAQ
 WOV WORC WTAG WTAM WTIC
 WTMJ WWJ

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
R — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Dance Orchestra
 CFRB CKAC KLRA KSCJ WAAB
 WABC WADC WALA WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDHO WDNC WDDO WDRC WFLB
 WFEA WGST WHEC WHK WIBX
 WISN WJAS WJR WKWB WLAC
 WLBB WMAS WMBD WMBG
 WMBR WNAX WNOX WOC WOKO
 WORC WPG WQAM WREC WSBT
 WSJS WSMK WSPD WTOC

C — Renfrew of Mounted, See Mon.

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Paris Night Life
 KDB KERN KFBK KFPY KFRC
 KGB KHL KLZ KMJ KMOX KOIN
 KOL KSL KVI KWG WFBM WHAS

ED-12:00p.m., E-11:00, C-10:00, M-9:00
B — Fred Waring's Pennsylvanians
 KFI KFSD KGHIL KGIR KGW KHQ
 KOMO KPO KTAR

SATURDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Frederic William Wile
 KERN KFBK KFI KFPY KFRC
 KGB KGKO KHL KLZ KMBC KOIL
 KOL KOMA KRLLD KSCJ KSL
 KTRH KVI KVOR WAAB WABC
 WACO WALA WBIM WBIG WBNS
 WCAO WDBJ WDHO WDRC WESG
 WFLB WFBM WGST WHAS WHEC
 WHK WHP WIBW WIBX WJSV
 WKRC WLAC WLHZ WMBD WMBG
 WMBR WNAX WOC WOKO WORC
 WQAM WREC WSJS WSMK WSPD
 WTOC WWVA

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — News of Youth, See Tuesday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C — Atlantic Family; Frank Parker
 WABC WADC WBIG WBNS WBRE
 WBT WCAO WCAU WCEA WDAE
 WDBJ WDHO WDRC WDEAN WFBG
 WFLB WGBI WGR WGST WHEC
 WHK WHP WIBX WICC WJAS
 WNAX WMBG WMBR WNAC
 WNBF WOKO WORC WORK WQAM
 WRAX WSJS WTOC WWVA

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
R — Edwin C. Hill, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Ziegfeld Follies; Fannie Brice
 CKAC CKCL KFAB KLZ KMBC

KMOX KOMA KRLLD KRNT KSL
 KTRH KTHA KTUL KWKH WABC
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDAE WDBJ WDHO
 WDRC WEAN WFLB WFBM WGR
 WGST WHAS WHEC WHK WJAS
 WJR WJSV WKRC WLAC WLBB
 WMBG WMBR WNAC WOKO
 WORC WQAM WREC WTOC WWL

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
R — Shell Chateau
 KDYL KFI KFSD KFYP KGHIL
 KGIR KGW KHQ KOA KOMO KPO
 KSD KSTP KTAR KYW WBBN
 WCAE WCSH WDAF WDAY WEAF
 WECB WEEL WFBP WGY WIBA
 WJAR WLW WMAQ WOV WRC
 WTAG WTAM WTIC WTMJ WWJ

B — National Barn Dance
 KDKA KOIL KPRC KSO KTBS
 KTHS KVOO KWK WAPI WAVE
 WBAL WHAP WIZ WBZA WFLB
 WGAR WHAM WIRE WJDX WJZ
 WIK WLZ WMAL WMC WMT
 WQAI WOV WROC WREN WSB WSMB
 WSYR WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Your Hit Parade
 KERN KFAB KFBK KFI KFPY
 KFRC KGLZ KGKO KGMB KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOIL KOIN KOL KOMA KRLLD
 KRNT KSCJ KSL KTRH KTHA
 KTUL KVI KVOR KWG KWKH
 WABC WACO WADC WALA WBBM
 WBIG WBNS WBRC WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDHO WDNC WDDO WDRC WEAN
 WFLB WFBM WFEA WGST WHAS
 WHEC WHK WHP WIBW WIBX
 WICC WISN WJAS WJR WJSV
 WKWB WKRC WLAC WLBB WMAS
 WMBD WMBG WMBR WNAC
 WNAX WNOX WOC WOKO WORC
 WPG WQAM WREC WSBT WSFA
 WSJS WSPD WTOC WWL WWVA

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
R — George Olsen; Ethel Shutta
 KDYL KFI KFYP KGW KHQ KOA
 KOMO KPO KSD KSTP KYW WBBN
 WCAE WCSH WDAF WDAY WEAF
 WECB WEEL WFBP WGY WHO
 WIBA WIRE WJAR WJDX WMAQ
 WOV WORC WSB WSMB WTAG
 WTAM WTIC WTMJ WWJ

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Dance Orchestra
 CFRB CKAC KFI KGKO KLRA
 KLZ KMBC KMOX KOMA KRLLD
 KSCJ KSL KTRH KTHA KVOR
 KWKH WABC WACO WADC WALA
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDAE WDBJ WDHO
 WDNC WDDO WDRC WFLB WFBM
 WFEA WGST WHAS WHEC WHK
 WIBW WIBX WICC WISN WJAS
 WJR WJSV WKWB WKRC WLAC
 WLBB WMAS WMBD WMBG
 WMBR WNAX WNOX WOC WOKO
 WORC WQAM WREC WSBT WSJS
 WSMK WSPD WTOC

B — National Barn Dance
 KDYL KFI KFSD KFYP KGHIL
 KGIR KGW KGW KHQ KOA KOMO
 KPO KSTP KTAR WDAY WEBC
 WIBA WLW WTMJ

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Dance Orchestra
 CFRB CKAC KFI KGKO KLRA
 KLZ KMBC KMOX KOMA KSL
 KTRH KTHA KVOR KWKH WABC
 WACO WADC WALA WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDHO WDNC WDDO WDRC WDEAN
 WFLB WFBM WFEA WGST WHAS
 WHEC WHK WHP WIBX WICC
 WJAS WJR WKWB WKRC WLAC
 WLBB WMAS WMBG WMBR WNAX
 WOKO WORC WQAM WREC WSBT
 WSJS WSMK WSPD WTOC

ED-12:00p.m., E-11:00, C-10:00, M-9:00
C — Ziegfeld Follies; Fannie Brice
 KDB KERN KFBK KFPY KFRC
 KGB KHL KMJ KOIN KOL KVI
 KWG

SUNDAY

ED-11:30 a.m., E-10:30, C-9:30, M-8:30
C — Salt Lake Tabernacle Choir
 KFI KGKO KLRA KLZ KMBC
 KOMA KRLLD KSCJ KSL KTRH
 KTHA KWKH WACO WADC WALA
 WBIG WBNS WBRC WBT WCCO
 WDHO WDNC WDDO WDRC WFLB
 WFBM WFEA WGST WHAS WTBW
 WIBX WISN WJAS WJR WJSV
 WKWB WKRC WLAC WLBB WMAS
 WMBD WMBR WNAC WNAX
 WNOX WOKO WORC WQAM WREC
 WSBT WSMK WSPD WTOC

R — Major Bowes' Capitol Family
 CFCF CHCT KDYL KFI KFYP
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTBS KTHS KVOO KYW
 WABT WAVE WBAF WDAY WEAF
 WECB WESH WFEA WFBP WFBM
 WFLA WGY WHO WIBA WIOD
 WIS WJAR WJAX WJDX WKY
 WMAQ WMC WQAI WOV WPTF
 WRC WRVA WSB WSM WSMR
 WOSC WSUN WTAG WTAM WTRB
 WTIC WTMJ WWJ WWNC

ED-12:30 p.m., E-11:30, C-10:30,
M-9:30
B — Radio City Music Hall
 CFCF CHCT KDKA KDYL KFI
 KFYP KGO KGW KHQ KOIL KOMO
 KPRC KSO KVOO WAPI WBAL
 WBG WBZA WCKY WDAY WERC
 WGAR WHAM WIS WJDX WJZ
 WIK WMAL WQAI WREN WSMB
 WSYR WWNC

ED-12:45 p.m., E-11:45, C-10:45,
M-9:45
C — Trans-Atlantic Broadcast
 CFRB CKAC KFI KGKO KLRA
 KLZ KMBC KRLLD KSCJ KTRH
 KTHA KVOR WABC WACO WADC
 WALA WBIG WBRC WCAO WCAU
 WCCO WDAE WDBJ WDHO WDRC
 WEAN WESG WFLB WFBM WFEA
 WGR WHAS WIBX WJAS WJSV
 WKWB WLAC WLHZ WMBD WMBR
 WNAC WOC WOKO WORC WPG
 WQAM WREC WSJS WSMK WSPD
 WTOC WWL

ED-1:00p.m., E-12:00, C-11:00, M-10:00
C — Church of the Air
 KFBK KFI KFPY KFRC KGB
 KHJ KMOX KOH KOL KOMA KRLLD
 KRNT KSCJ KSL KTRH KTHA
 KVI KVOR KWG WABC WALA
 WBNS WBT WCAO WCCO WDAE

SUNDAY (Continued)

WDBJ WDBO WDRC WESG WFBL
WFBM WRGR WHAS WHP WIBX
WJAS WJSV WKBN WKRC WLAC
WLBZ WWRB WNBW WOC WOKO
WORC WPMG WQAM WREC WSBT
WSJS WSPD WTOC WVVVA

ED-1:30p.m., E-12:30, C-11:30, M-10:30
C — Post's Gold; David Ross
KFH KFPY KFCR KGB KLZ
KMBC KMOX KOH KOMA KRLL
KRNT KSCJ KSL KTRH KTSA
KVI KVOR WABC WALA WBIG
WBRC WBT WCOA WDAE WDBJ
WDBO WDBC WESG WFBM WHAS
WHP WIBX WJAS WJSV WKBN
WKBW WKRC WLAC WLBZ WMBR
WNOX WOC WOKO WORC WPG
WQAM WREC WSJS WSPD WTOC
WVVVA

ED-2:00 p.m., E-1:00, C-12:00, M-11:00
B — Magic Key of RCA
CFCE CRCT KDKA KDYL KFI
KFYR KGU 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 WIS WJAX WJDX
WJZ WKY WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSOE WSYR WTAR
WTMJ WWNC WXYZ

ED-3:00 p.m., E-2:00, C-1:00, M-12:00
C — Everybody's Music.
CFRB CRAC KERN KFH KFPY
KFCR KGB KGKO KHJ KLZ KMBC
KMOX KOH KOL KOMA KRNT
KSCJ KSL KTRH KTSA KVI KVOR
KWG WAAB WABC WALA WBIG
WBNS WBRC WBT WCOA WCCO
WDAE WDBJ WDRG WEAN WESG
WFBL WFBM WFEA WGST WHAS
WHK WHP WIBX WIBC WICC
WJAS WKBN WKBW WKRC WLAC
WLBZ WMBD WMBG WMBR
WNBW WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

ED-4:00 p.m., E-3:00, C-2:00, M-1:00
Rev. Charles E. Coughlin
KFEL KNX KSO KSTP KVOD
KWK WATR WCAO WCAU WDRC
WEAN WFBL WFEA WGR WGAR
WHB WHO WICC WISN WJAS
WJDX WJR WLHZ WLLH WLW
WMAS WNAK WNBH WOKO WOL
WOR WORC WOW WRDO

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

ED-5:30 p.m., E-4:30, C-3:30, M-2:30
C — Frank Crumit, Julie Sanderson
KFH KNBC KMOX KOMA KTUL
WAAB WABC WADC WBNS WCAO
WCAU WDRC WEAN WFBL WFBM
WGR WHAS WHCC WHK WJAS
WICC WJR WJSV WMAS WOKO
WORC WSPD WWL WWVA

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Phil Spitalny and Orchestra
KFAB KFH KFPY KFCR KGB

KGKO KHJ KLRA KLZ KMBC
KMOX KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWKH WAAB
WABC WADC WBBM WBIG WBNS
WBRC WBT WCOA WCAU WCCO
WDAE WDBJ WDBO WDOO WDRG
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHCC WHK WHP
WIBX WIBC WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLHZ WMAS WMBR WNAK WNOX
WOC WOKO WORC WPG WQAM
WREC WTOC WWL WWVA

ED-6:30 p.m., E-5:30, C-4:30, M-3:30
C — Smiling Ed McConnell
KFB KERN KFAB KFBK KFH
KFPY KFCR KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WAAB WABC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDBJ WDRG WEAN
WFBL WHAS WHCC WHK WJAS
WJR WJSV WKBW WKRC WLAC
WWL WWVA

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — Voice of Experience
KMOX WAAB WABC WADC WBBM
WBT WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WHAS WHCC
WHK WJAS WJR WKBW WKRC
WSPD WWVA

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
B — Jack Benny; Johnny Green
CFCE 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
WSOC WSYR WTAR WTMJ WWNC
WXYZ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Phil Baker; Hal Kemp
KLRA KLZ KRLL KTRH KTSA
KWKH WABC WACO WADC WALA
WBIG WBNS WBRC WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDCN WDOO WDRG WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHCC WHK WHP WIBX WIBC
WJAS WJR WJSV WKBN WKRC
WLAC WLHZ WMAS WMBR WNAK
WNBW WNOX WOKO WORC WQAM
WREC WSBT WSPA WSJS WSMK
WSPD WTOC WWL WWVA

R — Fireside Recitals
KSD KYM WBN WCAE WCSH
WDAF WDAF WFBM WGY WHIO
WIRE WJAR WMAQ WOW WRC
WSAI WTAG WTAM WTIC WWJ

B — Ozzie Nelson; Robt. L. Ripley
KDKA KDYL KFI KFYR KGW
KHQ KOA KOIL KOMO KPO KPRC
KSO KSTP KTAR KVoo KWK
WBAL WBZ WBZA WCKY WDAY
WEBC 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

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
R — Sunset Dreams; Morlin Sisters
CFCE CRCT KSD KYW WBN

WCAE WCSH WDAF WDAF WFBM
WGY WHO WHIO WIRE WJAR
WLW WMAQ WOAI WOOD WOW
WRC WTAG WTAM WTIC WWJ

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — World Dances; Lud Gluskin
KFAB KFH KFPY KLRA KLZ
KMBC KMOX KOMA KRLL KRNT
KTRH KTSA KTUL KWK KWKH
WABC WADC WALA WBBM WBNS
WBRC WBT WCAO WCAU WCCO
WDOO WDRG WEAN WFBL WBBM
WGR WGST WHAS WHCC WHK
WHP WICC WJAS WJR WJSV
WKRC WLAC WNAK WNAK WOC
WOKO WOOD WREC WSPD WWL

R — Major Bowes' Amateur Hour
CFCE CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KVoo KYW
WAVE WBN WBZ WBZA WCAE
WCSH WDAF WDAY WDAF WEBC
WFAA WFBM 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

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
R — Manhattan Merry-Go-Round
CFCE CRCT KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KYW WAVE
WBN WCAE WCKY WCSH WDAF
WDAY WDAF WEBC WEEI WFAA
WFBM WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WSOE WTAG
WTAM WTAR WTIC WTMJ WWJ
WWNC

B — Jack Hylton; Pat O'Malley
KDKA KOIL KSO KWK WBAL WBZ
WJAZ WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
R — Album of Familiar Music
CFCE CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBN WCAE WCSH WDAF
WDAY WDAF WEBC WEEI WFAA
WFBM WFLA WGY WHO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOE WTAG
WTAM WTAR WTMJ WWJ WWNC

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

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
B — Paul Whiteman's Musical Varieties
KDKA KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSAI WSYR WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
R — General Motors Concert
CFCE CRCT KDYL KFI KFSB
KFYR KGHK KGIR KGU KGW
KHQ KOA KOMO KPO KPRC KSTP
KTAR KTBS KTHS KYW WAPI

SUNDAY (Continued)

WAVE WBAP WBEN WCAE WCBS
WDAF WDAY WEAF WEBC WEEI
WFBR WFLA WGY WHO WHIO
WBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSAI WSB WSM WSMB WSOJ
WTAG WTAM WTAR WTCI WTWC
WVJ WWNC

KTBS WBAP WDAF WKY

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
B — Walter Winchell
KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTBS WAPI WAVE
WHAP WJDX WKY WMC WOAI
WSB WSM WSMB

B — Jack Benny; Johnny Green

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

B-Paul Whiteman's Musical Varieties
KECA KEX KFSD KGA KGO KJR
KPRC KTBS KTBS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
R — Sunset Dreams; Morin Sisters
KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Voice of Experience
KDB KERN KPBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

ED-12:00p.m., E-11:00, C-10:00, M-9:00
B — Jack Hylton; Pat O'Malley
KDYL KFI KGW KHQ KOA KOMO
KPO

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight Saving

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

CONCERTS

Everybody's Music, 3 p.m. Sunday, C
General Motors Concert, 10:00 p.m. Sunday, R
Pittsburgh Symphony, 8:00 p.m. Thurs., B
Radio City Music Hall, 12:30 p.m. Sunday, B

DANCE BANDS

Victor Arden, 8:30 p.m. Friday, C
Ben Bernie, 9:00 p.m. Tuesday, B
Ray Block, 7:15 p.m. Tues. and Thurs., C
Jimmy Dorsey, 10:00 p.m. Thursday, R
Eddie Duchin, 9:30 p.m. Tues., R
Lud Gluskin, 8:00 p.m. Sunday, C
Al Goodman, 8:00 and 12:00 p.m. Sat., C
Benny Goodman, 10:00 p.m. Tuesday, 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, 7:00 p.m. Sunday, C
Lennie Hayton, 9:30 p.m. Tuesday, R
Horace Heidt, 10:00 p.m. Thursday, C
Richard Himber, 10 p.m. Friday, R
Jack Hylton, 9 and 12 p.m. Sun., B
Hal Kemp, 7:30 p.m. Sunday, C
Wayne King, 8:30 p.m. Tuesday and Wednesday, R
Andre Kostelanetz, 10 p.m. Friday, C
Benny Kruger, 8:30 p.m. Mon., C
Guy Lombardo, 8:00 p.m. Monday, C
Abe Lyman, 5:00 p.m. Sunday, C
Al Lyons, 10:00 p.m. Tuesday, C
Russ Morgan, 8:30 p.m. Tues., C
Ozzie Nelson, 7:30 p.m. Sunday, B
Ray Noble, 9:30 p.m. Wednesday, C
George Olsen, 10:30 p.m. Saturday, R
Raymond Paige, 9:00 p.m. Friday, C
Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
Freddie Rich, 10 p.m. Sat., C; 8:00 p.m. Friday, C
Phil Spitalny, 6:00 p.m. Sun., C
Rudy Vallee, 8:00 p.m. Thursday, R
Fred Waring, 9:30 and 12:00 p.m. Tuesday, C; 9:30
and 12:00 p.m. Friday, B
Paul Whiteman, 9:45 and 11:30 p.m. Sunday, B
Victor Young, 9:30 p.m. Saturday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat.
and Sun., R
Phil Baker, 7:30 p.m. Sunday, C
Jack Benny, 7:00 and 11:30 p.m. Sunday, B
Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C
Easy Aces, 7:00 p.m. Tues., Wed., and Thurs., B
Fibber McGee and Molly, 8:00 p.m. Monday, B
Lum and Abner, 7:30 p.m. daily, except Sat. and Sun., B
Ken Murray, 8:30 p.m. Tues., C
Walter O'Keefe, 9:00 and 11:30 p.m. Tuesday and
Thursday, C
Pick and Pat, 8:30 and 11:30 p.m. Monday, C
Stoopnagle and Budd, 9:30 p.m. Wed., C
Ed. Wynn, 9:30 p.m. Tuesday, R

DRAMA

Cavalcade of America, 8:00 p.m. Wednesday, C
Crime Crusade, 10:00 p.m. Wednesday, C
Death Valley Days, 9:00 p.m. Thursday, B
Eno Crime Clues, 8:00 p.m. Tuesday, B
Phillips Lord, 10:00 p.m. Wednesday, C
Lux Radio Theatre, 9:00 p.m. Monday, C
News of Youth, 6:15 p.m. Tues., Thur., Sat., C
Parties at Peckfair, 10:00 p.m. Tues., C
Renfrew of the Mounted, 6:45 and 11:15 p.m. Mon.
thru Fri., C
Irene Rich, 8:00 p.m. Friday, B
Buck Rogers, 6:00 p.m. Mon., Wed., and Fri., C
A Tale of Today, 9:30 p.m. Mon., 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
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
Chesterfield Program, 9:00 p.m. Wed., C
Chrysler Airshow, 8:00 p.m. Thursday, C
Cities Service Concert, 8:00 p.m. Friday, R
Contented Program, 10:00 p.m. Monday, R
Elgin Swing Time, 10:00 p.m. Tues., R
Evening in Paris, 8:30 p.m. Monday, B
Fireseed 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. Wed., R; 10 p.m. Sat., C
Hollywood Hotel, 9:00 p.m. Friday, C
Kruger Musical, 7:15 p.m. Tuesday and Thursday, C
Magic Key of RCA, 2:00 p.m. Sunday, B
Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
March of Time, 10:30 p.m. Mon. thru Fri., C
Maxwell House Show Boat, 9:00 p.m. Thursday, R
Musical Footnotes, 1:30 p.m. Sunday, C
National Barn Dance, 9:30 and 11:00 p.m. Saturday, B
Paris Night Life, 7:30 and 11:30 p.m. Friday, C
Poet's Gate, 1:30 p.m. Sun., C
Shell Chateau, 9:30 p.m. Saturday, R
Sinclair Minstrels, 9:00 p.m. Monday, B
Swift Studio Party, 9:30 p.m. Mon., R
Town Hall Tonight, 9:00 and 12:00 p.m. Wed., R
Uncle Ezra, 7:15 p.m. Mon., Wed., and Fri., R
Voice of Firestone, 8:30 and 11:30 p.m., Monday, R
Yop Pop, 9:00 p.m. Tuesday, R
Ziegfeld Follies, 8:00 and 12 p.m. Sat., C

SINGERS

Armiida, 7:15 and 11:15 p.m., Wednesday, C
Smith Bailew, 9:30 p.m. Sat., R
Connie Boswell, 9:30 p.m. Wednesday, C
Fannie Brice, 8:00 and 12:00 p.m. Sat., C
Patti Chapin, 8:00 and 12:00 p.m., Sat., C

Charlottees, 7:15 p.m. Monday, C
 Vivian Delta Chiesa, 1:30 p.m. Sunday, C
 Bernice Claire, 5:00 p.m. Sunday, C, and 9:00 p.m.
 Friday, R
 Jerry Cooper, 7:15 p.m. Tuesday and Thursday, C
 Bing Crosby, 10:00 p.m. Thursday, R
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Jessica Dragonette, 8:30 p.m. Friday, R
 Phil Dues, 8:00 and 11:30 p.m. Tuesday, R
 Alexander Gray, 8:00 p.m. Thursday, C
 Frances Langford, 9:00 p.m. Friday, C
 La Prele Bros., 8:30 p.m. Monday, C
 Lazy Dan, 3 p.m. Tuesday, C
 Pierre LeKreune, 7:15 and 11:15 p.m. Wed., C
 Elizabeth Lennox, 8:30 p.m. Friday, C
 James Melton, 8:00 p.m. and 12:00 p.m. Sat., C
 Lucy Monroe, 9:30 p.m. Sunday, R
 Morin Sisters, 7:45 and 11:00 p.m. Sunday, R
 Frank Munn, 9:30 p.m. Sunday and 9:00 p.m. Friday, R
 Donald Novis, 9:30 p.m. Tuesday, 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
 Carmela Ponselle, 8:30 p.m. Friday, C

Dick Powell, 9:00 p.m. Friday, C
 Lanny Ross, 9:30 p.m. Thursday, R
 Fritz Scheff, 8:00 p.m. Tuesday, C
 Oscar Shaw, 8:30 p.m. Friday, C
 Ethel Shutta, 10:30 p.m. Sat., R
 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
 Marion Talley, 10:30 p.m. Fri., R
 Benay Venuta, 8:00 p.m. Tuesday, C
 Helen Ward, 10:00 p.m. Tues., R

TALKS

Boake Carter, 7:45 p.m. daily except Sat. and Sun., C
 Rev. Charles E. Coughlin, 4:00 p.m. Sunday
 Edwin C. Hill, 7:15 p.m. Tues., Thurs., Sat., R
 Ted Husing, 7:30 p.m. Monday, C
 Fred Opinion, 10:45 p.m. Monday, C
 Robert L. Ripley, 7:30 p.m. Sunday, B
 Sidewalk Interviews, 9:00 p.m. Tuesday, R
 Lowell Thomas, 6:45 p.m. daily except Sat. and Sun., B
 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

Short Wave Stations By Frequencies

Police broadcasters shown in Italics. Time indicated is Eastern Standard.

	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. YDA8, Tandjongpriok. N. E. I. 500 W. N. V. Nederlandsch Indische-Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. Daily, 0530-1100; 1745-1845; 2230-0130.
	1.520 megs.	197.25 m.
<i>VIA, Adelaide, Australia.</i>	<i>175 w.</i>	<i>Police</i>
<i>VKO, Sydney, Australia.</i>	<i>1.4 kW.</i>	<i>Police.</i>

	1.530 megs.	195.96 m.
YDB7, Sourabaya, N. E. I.	75 watts.	Address, see YDA8 above. Daily, 0530-1100; 1745-1845; 2230-0130.
	1.540 megs.	194.69 m.
CJD, Campbell River, B. C.	300 watts.	Minister of Lands for B. C.
VBV, Lunenburg, N. S.	100 watts.	Lunenburg Sea Products, Ltd. (Station operated by Canadian Marconi).

	1.550 megs.	193.43 m.
YDA4, Soekaboemi, N. E. I.	25 watts.	For address and schedule see YDA8, 1.510 megs.
	1.566 megs.	191.46 m.
WIED, Broadcast pickup.	50 watts.	National Broadcasting Co., 30 Rockefeller Plaza, N. Y. City
WIEX, Broadcast pickup.	50 watts.	Address, see WIED above.

	1.570 megs.	190.96 m.
WPEQ, Baton Rouge, La.		Police.
YDB6, Malang, N. E. I.	100 watts.	For address and schedule see YDA8, 1.510 megs.

	1.574 megs.	190.48 m.
<i>KGPY, Shreeport, Lu.</i>		<i>Police.</i>
	1.580 megs.	189.76 m.
CJM, Borden, P. E. I.	100 watts.	Works ships. Canadian National Railway.
	1.585 megs.	189.16 m.
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.
	1.595 megs.	187.98 m.
YDB5, Solo, N. E. I.	25 watts.	For address and schedule see YDD3, 1.585 megs.

	1.596 megs.	187.84 m.
CFC, Cub Lake, Sask.	100 watts.	Dept. of Natural Resources, Govt. of the Province of Sask.
CGQ, Lac la Ronge, Sask.	100 watts.	Address, see CFC above.
CGV, Emma Lake, Sask.	100 watts.	Address CFC above.
CZJ, Isle-a-la-Croise, Sask.	100 watts.	Address CFC above.
VYP, Prince Albert, Sask.		Address CFC above.
WPGC, Findlay, Ohio.	500 W.	State of Ohio, Highway police.
WPGQ, Columbus, Ohio.	400 W.	
WPHC, Massillon, Ohio.	400 W.	State of Ohio, Dept. of Highways.
WPHK, Wilmington, Ohio.		State of Ohio.
WPHI, Cambridge, Ohio.		
WQFT, Portable in Ohio.	100 W.	

	1.606 megs.	186.69 m.
KGXW, Port Alexander, Alaska.		Karl Hansen.
KNED, Broadcast pickup.	50 watts.	(WBAP).
WHER, Broadcast pickup.		(KDKA).
WIEO, Broadcast pickup.	50 watts.	NBC, 30 Rockefeller Plaza, N. Y. City.
WIEW, Broadcast pickup.	20 watts.	NBC.

SHORT WAVE STATIONS BY FREQUENCIES

<p>WIEX, Broadcast pickup. National Broadcasting Co. WMEF, Broadcast pickup. 150 W. National Broadcasting Co., Funter Bay Camp, Alaska.</p> <hr/> <p>1.610 megs. 186.22 m. WQPC, Chicago, Ill. 1 kw. State of Ill., Bureau of Police. WQPD, DeQuoin, Ill. 1 kw. State of Ill., Bureau of Police. WQPF, Eljingham, Ill. 1 kw. State of Ill., Bureau of Police. WQPG, Sterling, Ill. 1 kw. State of Ill., Bureau of Police. WQPP, Pontiac, Ill. 1 kw. State of Ill., Bureau of Police. WQPS, Springfield, Ill. 1 kw. State of Ill., Bureau of Police., Macomb, Ill.</p> <hr/> <p>1.615 megs. 185.65 m. YDB4, Tjepoo, N. E. I. 25 W. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p> <hr/> <p>1.620 megs. 185.07 m. CFD, Kenora, Ont. 150 W. Ontario Dept. of Lands and Forests. CFJ, Red Lake, Ont. Address CFD above. CFL, Tabouret, P. Q. 100 W. Laurentian Forest Protective Association, Ltd., 126 St. Peter St., Quebec, P. Q. CFM, Manicouagan River Estuary, P. Q. 100 W. Address CFL above. CZB, Bellevue, P. Q. 100 W. Address CFL above. CZY, Riviere du Chef, P. Q. 100 W. Address CFL above. CZZ, St. Felecion, P. Q. 100 W. Address CFL above.</p> <hr/> <p>1.622 megs. 184.85 m. KGXU, Port Armstrong, Alaska. Buchan & Heinen. KHP, Deep Cove, Alaska. (KIJV) Atlas Packing Co. KIED, Broadcast pickup. (KFWB). KIFI, Broadcast pickup. (WDGY). KIJI, Port Conclusion, Alaska. Northwestern Herring Co. KIJK, Washington Bay, Alaska. Storfold & Grondahl. KIJO, Port Herbert, Alaska. P. H. Packing Co. KIJS, Newport Walter, Alaska. Chatham Strait Fish Co. KIJV, Deep Cove, Alaska. 50 watts. (KHP) Atlas Packing Co. KIOG, Red Bluff, Alaska. 50 watts. Richmond Fisheries Co. WIEH, Broadcast pickup. (WMCA). WKEM, Broadcast pickup. (WINS).</p> <hr/> <p>1.630 megs. 183.94 m. WEY, Boston, Mass. Marine Fire Station. WKDT, Detroit, Mich. Marine Fire Station. YDD2, Bandoeng, Java, N. E. I. 100 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Tgallegan O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.</p> <hr/> <p>1.634 megs. 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 Public Safety. WQFW, Columbia City, Ind. 1 kW. State of Ind., Indianapolis, Ind. 100 watts. State police.</p> <hr/> <p>1.640 megs. 182.82 m. YDA3, Buitenzorg, N. E. I. 25 watts. N. V. Neder-</p>	<p>landsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p> <hr/> <p>1.642 megs. 182.59 m. WRDS, E. Lansing, Mich. 1 kW. night: 5 kW. day. State police.</p> <hr/> <p>1.646 megs. 182.15 m. KNEC, Broadcast pickup, 40 w. (KVI). 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).</p> <hr/> <p>1.650 megs. 181.71 m. VBY, Lunenburg, N. S. Works ships. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.</p> <hr/> <p>1.658 megs. 180.83 m. KNHD, Redwood Falls, Minn. 400 w. State of Minn. KSW, Berkeley, Calif. Municipal police. WPGC, S. Schenectady, N. Y. 1 kW. night; 5 kW. day. State police.</p> <hr/> <p>1.660 megs. 180.62 m. YDB3, Djokjokarta, N. E. I. 100 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.</p> <hr/> <p>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.</p> <hr/> <p>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.</p> <hr/> <p>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. 1 kW. State police.</p> <hr/> <p>1.682 megs. 178.25 m. KACC, Fairfield, Iowa. 500 w. State of Iowa. KACD, Atlantic, Iowa. 500 w. State of Iowa. 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.</p> <hr/> <p>1.692 megs. 177.19 m. WQFT, Portable in Ohio. 100 w.</p> <hr/> <p>1.698 megs. 176.57 m. KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept. WAKJ, Duval County, Fla. 350 w. State of F.</p>
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SHORT WAVE STATIONS BY FREQUENCIES

1.706 megs.	175.74 m.		
KGPC, St. Louis, Mo. City of St. Louis. 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. 50 watts. City of W. KGJX, Pasadena, Calif. 400 watts. City of P. KGJL, Beaumont, Tex. 100 w. City of B. KGPL, Los Angeles, Calif. City of Los A. KGPQ, Honolulu, T. H. 500 w. City and County of H. KGPR, Fort Worth, Texas. City of Ft. W. KGZB, Houston, Tex. City of H. KGZL, Shreveport, La. City of S. KGZO, Waco, Texas. City of W. KGZY, San Bernardino, Calif. 50 watts. City of San B. KNEJ, 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. FYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept. WAKE, Everett, Mass. 50 w. City of E 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. WPEA, 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. 50 w. City of O. P. WQFX, Waukegan, Ill. 100 w. Lake Co. Police, Gladewater, Texas.			
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, Padang, Sumatra, N. E. I. Amateur Radio Omroep Padang.			
1.860 megs.	161.19 m.		
YDK6, Semarang, N. E. I. Radio Vereeniging Midden Java. Heerenstraat 25.			
1.880 megs.	159.47 m.		
YD09, Sourabaya, N. E. I. Owner: Holvast.			
1.900 megs.	157.80 m.		
YDG6, Batavia, N. E. I. Batavia Radio Vereeniging, Koningsplein 212.			
1.920 megs.	156.16 m.		
YDH9, Buitenzorg, N.E.I. Batavia Radio Vereeniging.			
1.940 megs.	154.55 m.		
YEN2, Kediri, N. E. I. Owner: Goldberg.			
1.960 megs.	152.97 m.		
YDH8, Bandoeng, N. E. I. E. A. van der Heyden, van Heemskerckstraat 3.			
1.980 megs.	151.42 m.		
YD08, Sourabaya, N. E. I. Het Gallehuis.			
2.020 megs.	148.43 m.		
KNED, Broadcast pickup. 50 watts. (WBAP). WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City. WMEF, Broadcast pickup. 150 watts. Address WIEO above.			
2.050 megs.	146.25 m.		
W9XAK, Manhattan, Kans. Television. Mon., 1945-2030. Wed. 2100-2200.			
2.060 megs.	145.54 m.		
KIIQ, Broadcast pickup. (KMTR). WNER, Broadcast pickup. 100 watts. (WAU).			
2.070 megs.	144.84 m.		
YD07, Soerabaya, N. E. I. Owner: v. Wingen.			
2.090 megs.	143.45 m.		
KNEC, Broadcast pickup. (KVI). YDG5, Batavia, Java, N. E. I. Batavia Radio Vereeniging.			
2.102 megs.	142.64 m.		
KIGA, Broadcast pickup. (KSTP). KIGW, Broadcast pickup. KNED, Broadcast pickup. 50 watts. (WBAP). WHER, Broadcast pickup. (KDKA). WIEO, Broadcast pickup. 50 watts. Address WIEO, 2.020 megs. WIEW, Broadcast pickup. Address WIEO, 2.020 megs. WIEY, Broadcast pickup. Address, WIEO, 2.020 megs. WJER, Broadcast pickup. (WTMJ). WMEF, Broadcast pickup. 150 watts. Address WIEO, 2.020 megs.			
2.110 megs.	142.09 m.		
W1XH, Boston, Mass. YD12, Soekaboemi, N. E. I., Batavia Radio Vereeniging.			
2.150 megs.	139.45 m.		
KIED, Broadcast pickup. (KFWB). KIEO, Broadcast pickup. (KFSD). KIFI, Broadcast pickup. (WDGY). KIFT, Broadcast pickup. (KJBS). KIIQ, Broadcast pickup. (KMTR). WIEG, Broadcast pickup. (WMCA). WKEM, Broadcast pickup. (WINS). WLEZ, Broadcast pickup. (WJAG).			
2.190 megs.	136.90 m.		
KIIH, Broadcast pickup. (KFAB). KNEC, Broadcast pickup. 40 w. (KVI). WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., New York City. WIEL, Broadcast pickup. Address WIEK above.			
2.212 megs.	135.54 m.		
VYZ, High Falls, P. Q. 50 watts. James McLaren Co., Ltd.			
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. CKB, Picton, 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.			

SHORT WAVE STATIONS BY FREQUENCIES

CKU, Pictou Island, N. S. 15 watts. Dept. of Public Works.

2.290 megas. 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, Ceepeece, 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.

2.304 megas. 130.13 m.

KBAL, Ketchikan, Alaska. Forestry.

KMYA, Juneau, Alaska. Forestry.

2.318 megas. 129.34 m.

CYQ, Toronto, Ont., police. 400 w.

2.342 megas. 128.02 m.

CGZ, Vancouver, B. C. 400 w. Corp. of the City of V.

2.350 megas. 127.58 m.

VBQ, Halifax, N. S. 25 watts. Works ships in harbor.

YDES, Djokjakarta, N. E. 1. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java. 0530-1100; 1745-1845; 2230-0130.

2.366 megas. 126.72 m.

WAKC, Freehold, N. J. 100 w. Monmouth County Welfare House, Brier Hill Rd.

2.382 megas. 125.87 m.

KGHT, Brownsville, Tex. 25 watts. City of B.

KGHV, Corpus Christi, Texas. 50 watts. City of C. C.

KNEF, Duluth, Minn. City of D. Police.

KNHB, Green Bay, Wisc. 50 w. City of G. B.

WAKP, Oshkosh, Wisc. 100 w. Winnebago County Police.

WPDN, Auburn, N. Y. Police.

WPEA, Syracuse, N. Y. City of S. Police.

WPFM, Birmingham, Ala. 400 watts. City of B. Police.

WGW, Mobile, Ala. 400 watts. City of M. Police.

....., Hibbing, Minn.

2.385 megas. 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.

2.390 megas. 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.

WIEK, Broadcast pickup. 50 watts. Address WIED above.

2.396 megas. 125.14 m.

VYW, Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.

2.406 megas. 124.61 m.

KGHZ, Little Rock, Ark. City of L. R. Police.

KGPW, Salt Lake City, Utah. City of S. L. C. Police.

KNHE, Fort Smith, Ark. 50 w.

2.414 megas. 124.20 m.

KACE, Olympia, Wash. 50 w. City of O.

KACJ, Wenatchee, Wash. 250 w. Chelan County Police.

KACK, Bellingham, Wash. 50 w. City of B.

KACN, Buenaventura, Calif. 50 w. City of B.

KACO, Tracy, Calif. 15 w. City of T.

KACS, Bakersfield, Calif. 500 w. Kern County.

KGHS, Spokane, Wash. 100 w. City of S.

KGHW, Centralia, Wash. 50 watts. City of C. Police.

KGPA, Seattle, Wash., Seattle Police Dept.

KGPF, Santa Fe, N. Mex. 25 watts. Police.

KGPS, Bakersfield, Calif. 50 w. City of B.

KGZA, Fresno, Calif. 500 watts. City of F. Police.

KGZM, El Paso, Texas. City of E. P. 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.

KNGY, Lodi, Calif. 40 w. City of L.

WCK, Detroit, Mich. D. City Police.

WMO, Highland Park, Mich. City of H. P. Police.

WPDA, Tulare, Calif. 150 watts.

WPDJ, Passaic, N. J.

WPDX, Detroit, Mich. City of D. Police.

WPDY, Atlanta, Ga. 400 w. City of A. Police.

WPFH, Baltimore, Md. City of B. Police.

WPFI, 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.

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2.415 megas. 124.15 m.

YDE4, Sourabaya, Java, N. E. I. 75 w. NIROM, Embong Malang 65

2.416 megas. 124.09 m.

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

2.422 megas. 123.79 m.

KACA, Atchison, Kans. 50 w. City of A.

KACI, Eureka, Calif. 100 w. Humboldt County Police.

KGPE, Kansas City, Mo. City of K. C. Police.

KGPG, Vallejo, Calif. City of V. Police.

KGZC, Topeka, Kans. City of T. Police.

KNGF, Sacramento, Calif. 500 watts.

KNGV, Salina, Kans., 50 w. City of S.

WMIJ, 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. H. Police.

SHORT WAVE STATIONS BY FREQUENCIES

<p>2.430 megas. 123.38 m. KGPB, Minneapolis, Minn. 500 watts. City of M. KGZJ, Phoenix, Ariz. Municipal Police. KNGP, Shreveport, La. 100 watts. KNHG, Prescott, Ariz. 10 w. City of P. WAKH, Bloomfield, N. J. 50 w. Town of B. WCPD, Charleston, S. C. 50 w. City Council of C. WPDI, Columbus, Ohio. Franklin County Police. WPDM, 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. 500 w. Bergen County Police Dept. WPGI, Portsmouth, Ohio. 100 watts. City of P. Police. WPHO, Zanesville, Ohio. 50 watts. WQFO, Lancaster, Ohio. 50 watts. City of L. Police.</p>	<p>WPDK, Milwaukee, Wisc. City of M. Police. WPPE, 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. WQFC, Roanoke, Va. 100 watts. WQHI, Lynchburg, Va. 50 watts. City of L. WQFI, Petersburg, Va. 250 w. City of P. YDBZ, Samarang, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-0130; 1745-1845; 2230-0130. Milwaukee, Wis.</p>
<p>2.442 megas. 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. WPDL, Lansing, Mich. City of L. Police. WPEB, Grand Rapids, Mich. 500 watts. City of G. R. WPES, Saginaw, Mich. City of S. Police. WPEC, Muskegon, Mich. City of M. Police. WPEE, Reading, Pa. City of R. Police. WPEG, Jacksonville, Fla. City of J. Police. WPEF, Lakeland, Fla. 50 watts. City of L. Police. WPEX, Palm Beach, Fla. 50 watts. Town of P. B. WPFY, Yonkers, N. Y. 400 watts. City of Y. WPFZ, Miami, Fla. 500 watts. City of M. WPGL, 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. 100 w. City of W-B. WQFQ, Lafayette, Ind. 50 w. City of L. Winter Haven, Pa.</p>	<p>2.458 megas. 121.97 m. KACM, Big Spring, Texas. 50 w. City of B. S. KGZI, Wichita Falls, Tex. City of W. F. Police KGZW, Lubbock, Tex. 150 w. City of L. Police KNFH, Idaho Falls, Idaho. 500 watts. KNGW, Brownwood, Tex. 50 watts. WPGC, Youngstown, Ohio. 250 w. City of Y. WPDO, Akron, Ohio. 250 w. City of A. Police. WPDV, Charlotte, N. C. 250 w. City of C. WPFS, 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.</p>
<p>2.466 megas. 121.58 m. KGOZ, Cedar Rapids, Iowa. 50 watts. City of C. R. KGPD, San Francisco, Calif. City and County of S. F. Police. KCPI, Omaha, Nebr. City of O. Police. KCPR, Sioux City, Iowa. City of S. C. Police. KGPM, San Jose, Calif. KCPN, Davenport, Iowa. City of D. Police. KCZC, Des Moines Iowa. City of D.M. Police. WAKG, New London, Conn. 50 w. City of N.L. WAKG, Clearwater, Fla. 50 w. Pinellas County. WPEC, Memphis, Tenn. City of M. Police. WPBM, Woonsocket, R. I. City of W. Police. WPFV, Pawtucket, R. I. City of P. Police. WPFV, Bridgeport, Conn. 50 w. City of B. Police. WPGA, Bay City, Mich. City of B.C. Police. WPGB, Port Huron, Mich. City of P.H. Police. WPGC, Cranston, R.I. 50 w. City of C. Police. WPGX, Worcester, Mass. 100 watts. City of W. Police. WPIA, Fitchburg, Mass. 50 watts. City of F. Police. WPHN, Tampa, Fla. 100 w. City of T. Police. WPJH, Jackson, Mich. 50 w. City of J. Police. WQFA, New Haven, Conn. 100 watts. WQFC, Gainesville, Fla. 50 watts. WQFK, Clearwater, Fla. 50 w. City of C.</p>	<p>2.474 megas. 121.19 m. KCHG, Las Vegas, Nev. 50 watts. KGHM, Reno, Nev. 50 w. City of R. Police. KNFH, Garden City, Kans. 50 w. City of G. C. KNGH, Dodge City, Kans. 50 watts. WAKI, Sandusky, Ohio. 50 w. City of S. WPDP, Philadelphia, Pa. City of P. Police. WPFQ, Knoxville, Tenn. City of K. Police. WPFQ, Swarthmore, Pa. Borough of S. Police WPFS, Asheville, N. C. 500 watts. Buncombe County Police. WPGZ, Johnson City, Tenn. 50 w. City of J. C.</p>

SHORT WAVE STATIONS BY FREQUENCIES

<i>WPHY</i> , Elizabethton, Tenn. 100 watts. Carter County Police.	2.506 megs.	119.64 m.
<i>WQFY</i> , Mansfield, Ohio. 50 w. City of M.	<i>KLH</i> , San Rafael, Calif. Pacific Telephone & Telegraph Co.	
<i>WRDQ</i> , Toledo, Ohio. 400 watts. City of T. Police.	<i>WOU</i> , Marshfield, Mass. Phones fishing vessels. New England Telephone & Teleg. Co.	
2.482 megs.	120.80 m.	
<i>KCZE</i> , San Antonio, Tex. City of S. A. and State of Texas Police.	2.510 megs.	119.45 m.
<i>WPCT</i> , New Castle, Pa. 50 watts. City of N. C. Police.	<i>HII</i> , Trujillo, D. R. 500 w. Works Hialeah. Dominican Teleph. Co.	
<i>WPHZ</i> , Oil City, Pa. 50 watts. City of O. C. Police.	2.512 megs.	119.36 m.
<i>WQFF</i> , Monessen, Pa. 50 watts.	<i>KGM</i> , Ketchikan, Alaska. Alaska Pacific Salmon Co.	
<i>WQFU</i> , Sharon, Pa.	<i>KLB</i> , Port Althorp, Alaska. Address KGM above.	
2.490 megs.	120.41 m.	
<i>KACQ</i> , Kataloch, Wash. 10 w.	<i>KLC</i> , Kake, Alaska. Address KGM above.	
<i>KGHA</i> , Snowplow No. A232, 10 watts. State of Wash.	<i>KLE</i> , Rose Inlet, Alaska. Address KGM.	
<i>KGHB</i> , Snowplow No. A227, 10 watts. State of Wash.	SHIPS owned by Alaska Pacific Salmon Co. as follows:	
<i>KGHC</i> , Portable in Washington. 10 watts. State of W.	<i>KGJK</i> , Jeannette E.; <i>KGNM</i> , Doris E.;	
<i>KGHD</i> , Seattle, Wash. 50 w. State of Wash.	<i>KGXN</i> , Yea Bay; <i>WDEM</i> , Wm. T. Muir;	
<i>KGHE</i> , Snoqualmie Pass, Wash. State of W., Highway & Police Dept.	<i>WFFR</i> , Frances E.; <i>WIDL</i> , Leontine; <i>WIDM</i> , Sally S.; <i>WIDN</i> , Virginia E.; <i>WNFM</i> , Alco.	
<i>KGHQ</i> , Chinook Pass, Wash. 10 watts. State of W., Highway & Police.	2.522 megs.	118.88 m.
<i>KGHR</i> , Portable in Wash. 10 watts. State of Wash.	<i>KOW</i> , Edmonds, Wash. Pacific Telephone & Telegraph Co.	
<i>KGHX</i> , Santa Ana, Calif. 400 w. Orange County Police.	2.538 megs.	118.13 m.
<i>KGZD</i> , San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another, 100 watts.	<i>KDH</i> , Port Alexander, Alaska. Karl Hansen.	
<i>KGZU</i> , Lincoln, Neb. City of L. Police.	<i>KDK</i> , Wrangell, Alaska. Works <i>KIJB</i> , <i>KLA</i> , <i>KFF</i> , <i>KLD</i> daily at 0130. Owner: A. R. Brueger.	
<i>KNFC</i> , Ft. Angeles, Wash. State Highway.	<i>KDV</i> , Cordova (Eyak River), Alaska. Pioneer Sea Foods Co.	
<i>KNFG</i> , Olympia, Wash. 50 watts. State of W. Police.	<i>WNFG</i> , M. S. Arb No. 3. Owner: A. R. Brueger.	
<i>KNFK</i> , Bellingham, Wash. 50 watts. State of Wash.	2.550 megs.	117.58 m.
<i>KNFL</i> , Shuksan Camp, Wash. 10 watts. State of Wash. Highways.	<i>WMES</i> , Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.	
<i>KNFM</i> , Compton, Calif. 25 watts.	2.566 megs.	116.84 m.
<i>KNFR</i> , Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept.	<i>KFF</i> , Union Bay, Alaska. Works <i>KDK</i> . Nakat Packing Corp.	
<i>KNFS</i> , Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept.	<i>KHV</i> , Nakeen, Alaska. Nakat Packing Corp.	
<i>KNFU</i> , Skykomish, Wash. 10 w. State of W.	<i>KLA</i> , Waterfall, Alaska. Works <i>KDK</i> . Address above.	
<i>KNFX</i> , Ellenburg, Wash. 10 watts. Address <i>KNFS</i> above.	<i>KLD</i> , Hidden Inlet, Alaska. Works <i>KDK</i> . Address above.	
<i>KNFY</i> , Bear River Camp, Wash.	<i>KOU</i> , Wilmington, Calif. Southern Calif. Telephone Co.	
<i>KNFZ</i> , Hells Crossing Camp, Wash. 10 watts.	<i>WLFP</i> , M. S. "Alaskan". Works <i>KDK</i> .	
<i>KNGA</i> , Satus Pass Camp, Wash. 10 watts.	A number of Motorships owned by the Nakat Packing Corp. work on this frequency	
<i>KNGB</i> , Yakima, Wash. 50 watts.	2.590 megs.	115.76 m.
<i>KNGC</i> , Vancouver, Wash. 50 watts.	<i>WOX</i> , St. George, Staten Island, N. Y. Harborphone. New York Telephone Co.	
<i>KNGD</i> , Walla Walla, Wash. 10 watts.	2.604 megs.	115.14 m.
<i>KNGJ</i> , El Centro, Calif. 50 watts.	<i>KNIA</i> , Glacier National Park, Montana.	
<i>KNGN</i> , Norfolk, Nebr. 25 watts.	<i>KNKS</i> , Yosemite National Park, Calif.	
<i>KNGQ</i> , Wenatchee, Wash. 50 watts. Address <i>KNFS</i> .	<i>KNKU</i> , Yosemite National Park, Calif.	
<i>KNGR</i> , Spokane, Wash. 50 w. Address <i>KNFS</i> .	<i>KNKX</i> , Deer Camp, Yosemite, Calif.	
<i>KNGZ</i> , Ephrata, Wash. 10 w. State of W.	<i>KNKY</i> , Devil's Post Pile Nat'l Monument, Calif.	
<i>WAKA</i> , Huntington, Ind. 50 w. City of H.	<i>WVD</i> , Seattle, Wash. 500 watts. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	
<i>WAKK</i> , Frankfort, Ind. 50 w. City of F.	<i>WXH</i> , Ketchikan, Alaska. Works <i>WVD</i> .	
<i>WAKO</i> , Kokomo, Ind. City of K. Police.	<i>WYBF</i> , Napoleon, Mo. 500 watts. United States Army.	
<i>WPDZ</i> , Fort Wayne, Ind. City of F.W. Police.	2.616 megs.	114.61 m.
<i>WPFZ</i> , Clarksburg, W.Va. City of C. Police.	<i>KAEB</i> , Hydanoub, Alaska. 40 w. Territory of A.	
<i>WPGN</i> , South Bend, Ind. 100 watts. City of S.B. Police.	<i>KAED</i> , Angoon, Alaska. 40 w. Territory of A.	
<i>WPGO</i> , Huntington, N. Y. 25 watts. Town of H. Police.	<i>KAEF</i> , Jack Wade, Alaska. 40 w. Territory of A.	
<i>WPGS</i> , Mineola, N. Y. County of Nassau Police.	<i>KION</i> , Tin City, Alaska. 200 w. American Tin Fields.	
<i>WPHI</i> , Charleston, W. Va. 50 watts. City of C. Police.	<i>KIOX</i> , Deering, Alaska. 40 w. Territory of A.	
<i>WPHJ</i> , Fairmont, W. Va. 100 watts.	<i>KIOZ</i> , Kaslof, Alaska. 40 w. Terr. of A.	
<i>WPHQ</i> , Parkersburg, W. Va. 50 watts. City of P. Police.	<i>KIUU</i> , Igloo, Alaska. 50 w. H. H. Burkher.	
	<i>KIUW</i> , Kenal, Alaska. 40 w. Terr. of A.	
	<i>KIUX</i> , Wales, Alaska. 10 w. Carroll E. Black.	
	..... Homer, Alaska.	
	..... Umnak, Alaska.	

SHORT WAVE STATIONS BY FREQUENCIES

2.632 megs.	113.91 m.	2.738 megs.	109.50 m.
KAJQ, Halibut Bay, Alaska. 50 w. Atlas. Red Salmon Packers, Inc.		KLKG, M. S. La Merced. Alaska Southern Packing Co.	
KGI, Nellie Juan, Alaska. (KIOD) Copper River Packing Co.		VGBQ, Yacht Seyelny II. Capt. Paul F. Johnson.	
KGX, Port Wakefield, Alaska. (KIOC) Apex Fish Co.		WDDQ, "Zapora." Wills Navigation Co.	
KIJW, Shearwater Bay, Alaska. Kadiak Fisheries Co.		WDFL, "El Ferrito." Ben S. McGlashan, KGJF, 1417 S. Figueroa, Los Angeles.	
KIIX, Kadiak Island, Alaska. Kadiak Fisheries.		WIFI, S. S. Cadrew, in Seattle Harbor, Wash. Works ships in harbor. Owner, A. E. Griswold.	
KIMA, Port Hobron, Alaska. American Pacific Whaling Co.		WLFJ, "Onawa." C. M. Poncin.	
KIOC, Port Wakefield, Alaska. (KGX) Apex Fish Co.		WLFQ, Yacht "Hojjim." 40 w. J. V. Griffith, Tacoma, Wash.	
KIOD, Nellie Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co.		WLFS, "Uganik." San Juan Fishing & Packing Co.	
KIOH, Iron Creek (Raspberry Straits), Alaska. 50 watts. Southwestern Herring Co.		WOFM, "Principia." L. A. Macomber.	
KIOI, Akutan, Alaska. 50 watts. American Pacific Whaling Co.		WOFW, Yacht "Gallant Lady." 40 w. M. C. Riggs, Tacoma, Wash.	
....., Funter Bay Camp, Alaska.			
2.670 megs.	112.29 m.	2.750 megs.	109.03 m.
NMC, Point Bonita, Calif. 200 watts. United States Coast Guard.		YDL6, Djokjokarta, N. E. I. Owner: v. Wingen.	
NMD, Cleveland, Ohio. 200 watts.		2.760 megs.	108.63 m.
NMF, Winthrop, Mass. 200 watts. U. S. Coast Guard.		WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	
NMG, Mobile, Ala. U. S. Coast Guard.		WMEF, Broadcast pickup. 150 watts. Address WIEO above.	
NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard.		2.790 megs.	107.46 m.
NMP, Wilmette, Ill. 200 watts.		YDJ3, Tegal, Java, N. E. I. van Wingen.	
NMW, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.		YDN3, Madioen, N. E. I. Owner: v. Wingen.	
NMW, Grays Harbor, Wash. 200 watts.		2.810 megs.	106.70 m.
NMY, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard.		YDQ6, Malang, N. E. I. Owner: v. Wingen.	
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.		2.830 megs.	105.94 m.
NOF, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.		KNEC, Broadcast pickup. 40 w. (KVI).	
NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.		KNEF, Broadcast pickup. 200 w. (KSL).	
NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.		YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.	
NOM, Miami, Fla.		2.850 megs.	105.20 m.
NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.		YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.	
NOR, Sault Ste. Marie, Mich. 200 watts.		2.870 megs.	104.47 m.
NOU, New London, Conn. 200 watts. U. S. Coast Guard.		YDA6, Cheribon, N. E. I. 15 watts.	
NOV, Cape May, N. J. 200 watts. U.S. Coast Guard.		YDJS, Cheribon, Java, N.E.I. 15 w. Firma van Wingen	
NOY, Galveston, Texas. 200 watts.		2.890 megs.	103.74 m.
NOZ, Port Townsend, Wash. 200 watts.		YDK4, Magelang, Java, N.E.I. Firma van Wingen.	
....., Yaquina Bay, Ore. U. S. C. G.		2.910 megs.	103.03 m.
2.698 megs.	111.13 m.	YDE3, Semarang, N. E. I. 15 watts.	
NMD, Cleveland, Ohio. 200 watts.		YDK3, Semarang, N. E. I. Owner: v. Wingen.	
NMP, Wilmette, Ill. 200 watts.		2.912 megs.	102.96 m.
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.		KHW, Akutan, Alaska. American Pacific Whaling Co.	
NOR, Sault Ste. Marie, Mich. 200 watts.		KHZ, Port Hobron, Alaska. Address KHW.	
....., Arena Cove, Calif. Works NMC, U. S. C. G.		KIJW, Shearwater Bay, Alaska. 50 w. Kadiak Fisheries, 412 Lowman Co., Seattle.	
2.710 megs.	110.63 m.	2.930 megs.	102.33 m.
YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.		WMEP, Suffield, Ohio. 400 watts.	
2.726 megs.	109.98 m.	WMEU, St. Petersburg, Fla. 400 watts.	
KIIW, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District, 205 S. Broadway, L. A.		WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.	
KIIX, Tujunga Dam No. 1, Calif. Address KIIW above		YD05, Soerabaja, N. E. I. Owner: Goldberg.	
KIY, Los Angeles, Calif. 400 watts. Address KIIW above.		2.950 megs.	101.63 m.
KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.		YDQ5, Malang, N. E. I. Owner: Vis.	
WAJN, Portable. 100 w. State of Fla.		2.980 megs.	100.61 m.
WANB, Dinsmore, Fla. 100 w. Fla. Board of Forestry.		CZA, Drummondville, P. Q. 4 kW. Phones ships. Canadian Marconi Co., Box 1690, Montreal, P. Q.	
2.728 megs.	109.90 m.	2.986 megs.	100.41 m.
KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.		KDX, M. S. LeMerced (vessel moored in vicinity of False Pass, Alaska). 50 watts. Alaska Southern Packing Co.	
KIJZ, Portable in Oregon. See above.		KGQ, Todd, Alaska. Peril Straits Packing Co.	
		KIJP, Uganik, Alaska. Works KIJR, KIJU. San Juan Fishing & Packing Co.	

SHORT WAVE STATIONS BY FREQUENCIES

KIJR, Port San Juan, Alaska. Works KIJP. KIJU. Address KIJP.	3.152 megs.	95.12 m.
KIJU, Todd, Alaska. Works KIJR, KIJP. Peril Straits Packing Co.	CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY.	
KIUW, Kenai, Alaska. 40 w. Terr. of A.	CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.	
WNFJ, M. S. Sunset. Alaska Southern Packing Co. Homer, Alaska.		
2.994 megs.	100.14 m.	
KAEF, Jack Wade, Alaska. 40 w. Territory of A.		
KDY, Pillar Bay, Alaska. Fidalgo Island Packing Co.		
KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Growden.		
KIJJ, Tanana, Alaska. Northern Commercial Co.		
KIJK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage, etc. Northern Commercial Co.		
KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP, Fairbanks, and WXE Anchorage. Northern Commercial Co.		
KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.		
KIIN, Eagle, Alaska. 50 watts. See KIIL above.		
KIIO, McGrath, Alaska. 50 watts. See KIIL above.		
KIJB, Cape Pole, Alaska. 50 watts. A. R. Brueger.		
KILY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.		
KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.		
2.998 megs.	100.00 m.	
WXE, Anchorage, Alaska.		
3.040 megs.	98.62 m.	
CFQ, Edmonton, Alta. Edmonton Journal, Ltd. CGE, Calgary, Alta. 100 watts. Calgary Herald, Ltd. Southam Bldg.		
CKS, Portable. 100 watts. Calgary Herald; see above.		
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.		
3.070 megs.	97.66 m.	
CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.		
WKDL, Miami, Fla. (airway).		
WMDU, San Juan, Puerto Rico. (airway).		
3.093 megs.	96.94 m.	
KAED, Angoon, Alaska. 40 w. Territory of A.		
KIAP, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Co.		
KIAW, Port Althorp, Alaska. Address KIAP above.		
KIAY, Ketchikan, Alaska. Address KIAP above.		
KIBA, Kake, Alaska. Address KIAP above.		
KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.		
KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.		
KIOM, Chevak, Alaska. 25 w. Geoc. A. Sheppard.		
KIUZ, Hoonah, Alaska. 40 w. Territory of A.		
3.100 megs.	96.72 m.	
KIIP, Luckyshot, Alaska. 30 w. W. E. Dunkle, Willow Creek Mines.		
3.125 megs.	95.94 m.	
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.		
3.130 megs.	95.79 m.	
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.		
3.150 megs.	95.18 m.	
YDG3, Batavia, Java, N. E. I. 30 w. Firma C. M. Luyks. Noordwijk 27.		
3.155 megs.	95.03 m.	
KBCJ, San Francisco, Calif. Weather Bureau.		
3.170 megs.	94.58 m.	
YD04, Sourabaya, N. E. I. Java Radio Import Co. Kaliasin 20a.		
3.190 megs.	93.99 m.	
KIJJ, Tanana, Alaska. Northern Commercial Co.		
KIJK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co.		
KIIL, Fort Yukon, Alaska. 50 watts. See KIJK above.		
KIIM, Hot Springs, Alaska. 50 watts. See KIJK above.		
KIIN, Eagle, Alaska. 50 watts. See KIJK above.		
KIIO, McGrath, Alaska. 50 watts. See KIJK above.		
KIINT, Portable. 50 w. Los Angeles Flood Control District, 205 So. Broadway, L. A.		
WAJJ, Portable, 100 w. State of Fla.		
WAJK, Portable, 100 w. Same.		
WAJL, Portable, 50 w. Same.		
WAJM, Portable, 25 w. Same.		
WAJN, Portable, 100 w. Same.		
YDK2, Semarang, N. E. I. Owner: Wels.		
3.200 megs.	93.69 m.	
KBAL, North Bend, Wash. Forestry.		
KBAP, Seattle, Wash. Forestry.		
KBCC, Mt. Shasta, Calif. Forestry.		
3.210 megs.	93.40 m.	
YDL5, Djokjakarta, N. E. I. Owner: Helant Muller.		
3.230 megs.	92.82 m.	
YDQ4, Malang, N. E. I. Owner: Radinova.		
3.250 megs.	92.25 m.	
YDH5, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.		
3.265 megs.	91.83 m.	
KAEB, Hydraburg, Alaska. 40 w. Territory of A.		
KIBZ, Waterfall, Alaska. Nakat Packing Corp.		
KICE, Nakeen, Alaska. Nakat Packing Corp.		
KICG, Union Bay, Alaska. Nakat Packing Corp.		
KIDE, Hidden Inlet, Alaska. Nakat Packing Corp.		
KIKY, Saldovia, Alaska. 40 watts. Adam W. Lipke.		
3.270 megs.	91.69 m.	
YDA7, Pekalongan, N. E. I. 15 watts.		
YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.		
3.290 megs.	91.13 m.	
YD03, Soerabaja, N. E. I. Owner: Radio Electric.		
3.300 megs.	90.85 m.	
CZV, Waterloo Mine, B. C. Waterloo Gold Mines Ltd.		
KBAT, Olympia, Wash. Forestry.		
KBAU, Quilcene, Wash. Forestry.		
KBCQ, Boise, Idaho. Forestry.		
YDG7, Batavia, Java, N. E. I. N. V. Pianohandel Kok, Rijswijk 19.		
3.310 megs.	90.58 m.	
YHD4, Bandoeng, Java, N. E. I. Owner: Luyks.		
3.320 megs.	90.31 m.	
YDM2, Tjopoe, N. E. I. Radio Vereeniging.		
3.330 megs.	90.04 m.	
YDV2, Bandjermasin, Borneo, N. E. I. Owner: Eureka.		
3.340 megs.	89.77 m.	
CGD, Drummondville, P. Q. Private station of		

SHORT WAVE STATIONS BY FREQUENCIES

Canadian Marconi Co., P. O. Box 1690, Montreal, P. Q.			WWN, Detroit River Lighthouse, Mich. Address WRJ above.
CGM, Montreal, P. Q. Private CMC station. Address CGD above.			WWR, Detroit, Michigan. Lighthouse station. Address WRJ.
	3.345 megs.	89.63 m.	WWZ, Key West, Fla. Lighthouse. Address WRJ above.
SP33, Weaverly, Calif. Forestry.			YDL4, Djokjakarta, N. E. I. Owner: Vadera.
	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.			3.423 megs.
			87.59 m.
	3.385 megs.	88.57 m.	WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., N. Y. City.
KBA, Portland, Ore. Forestry.			
KBCA, Santa Barbara, Calif.			3.430 megs.
KBCB, Santa Barbara, Calif.			87.41 m.
KBCG, Yreka, Calif.			YDO2, Soerabaja, N. E. I. Owner: Soekaradio.
KBCH, Oakland, Calif.			YDO6, Sourabaya, Java, N. E. I. 70 w. Algemeene Radiovereeniging Oost-Java, Lombokstraat 1.
	3.387 megs.	88.50 m.	
KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Rainier National Park, Longmire.			3.445 megs.
KGYB, Longmire, Wash. Address KGYA above.			87.03 m.
KGYC, Paradise Inn, Mt. Rainier National Park, Longmire, Wash.			KBAM, Grants Pass, Ore. Forestry.
KGYD, Sunrise Lodge, Mt. Rainier Park, Longmire Wash.			KBCD, North Fork, Calif. C. C. C. Co. 988.
KGYE, White River, Wash. Address KGYA above.			KBCE, North Fork, Calif.
KGYF, Carbon River, Wash. Address KGYA above.			KBCF, North Fork, Calif.
KGYG, Portable station of the Forestry Dept. of the State of Washington.			
KGYH, same as KGYG above.			3.450 megs.
KGYI, Seattle, Wash. Forestry.			86.90 m.
KNDI, Pt. Angeles, Wash.			YDL3, Solo, N. E. I.
KNDK, Mt. Olympus Natl. Mon., Wash. Forestry.			
KNDL, Mt. Olympus Natl. Mon., Wash. Forestry.			3.452 megs.
KNDM, Mt. Olympus Natl. Mon., Wash.			86.85 m.
KNDP, Anderson Park, Mt. Olympus Mon., Wash.			CJU, Winnipeg, Man. Canadian Airways Ltd. (Western Lines) 60 Brock St., Winnipeg.
KNDS, Low Divide, Mt. Olympus Mon., Wash.			
KNDT, Mt. Olympus Natl. Mon., Wash.			3.470 megs.
KNLS, Gobblers Knob, Mt. Rainier Park, Wash.			86.40 m.
KNLT, Cataract Creek, Wash. Forestry.			YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.
KNLU, Tolmie Peak, Mt. Rainier Park, Wash.			
KNLV, Fremont, Wash. Forestry.			3.490 megs.
KNLX, Shriners Peak, Mt. Rainier Natl. Park, Wash.			85.91 m.
	3.390 megs.	88.44 m.	YDH3, Bandoeng, Java, N. E. I. Owner: de Kort.
YDQ2, Djember, N. E. I. Owner: v. Vingen.			
	3.410 megs.	87.92 m.	3.493 megs.
KBAO, Spokane, Wash.			85.83 m.
KNKG, Ash Mt., Sequoia Natl. Park, Calif.			W7XK, Seattle, Wash. 80 watts. Northern Radio Co., Kullien Bldg.
KNLO, Death Valley National Monument, Calif.			
KNLP, Wild Rose Canyon, Death Valley, Calif.			AMATEURS WORK BETWEEN 3.500 and 4.000 megs. (74.96 to 85.56 meters). Phones between 3.900 and 4.000 megs.
KNLQ, Trona, Death Valley, Calif.			
KNLR, Lone Pine, Death Valley, Calif.			3.750 megs.
WRJ, Poe Reef Lighthouse, Mich. Dept. of Commerce, Bureau of Lighthouses.			79.95 m.
WST, Dry Tortugas Lighthouse, Fla. Address WRJ above.			CT1CT, Lisbon, Portugal. 50 watts. "Radio Eddy-stone." Sr. Oscar G. Lomelino, Rua Gomez Friere 79, 2-D, Lisbon. Daily, 0900-1100.
WWAJ, Manitou Island Lighthouse, Mich. Address WRJ above.			
WWAL, Passage Island Lighthouse, Mich. Address WRJ above.			3.800 megs.
WWAM, Rock of Ages Lighthouse, Mich. Address WRJ above.			78.90 m.
WWAO, Huron Island Lighthouse, Mich. Address WRJ above.			ZP11, Asuncion, Paraguay.
WWE, Fourteen Foot Shoals Lighthouse, Mich. Address WRJ.			
WWG, Cheboygan Range Lighthouse, Mich. Address WRJ above.			4.000 megs.
WWH, Stannard Rock Lighthouse, Mich. Address WRJ above.			74.96 m.
WWHJ, Delaware Breakwater Station, Philadelphia, Pa. Address WRJ.			CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgada. Wed., Sat., 1700-1900.
WWM, Marquette Lighthouse, Mich. Address same as WRJ above.			
			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. WEEM, McRae, Ga.; WEEJ, Jacksonville; WEEM, Miami; WEEN, Linden, N. J.; WEEO, Orlando; WEEH, 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. City.

SHORT WAVE STATIONS BY FREQUENCIES

WOY, Lawrenceville, N. J. 20 kW. Address WOO W4XBG, Tavernier, Fla.			DOAI, S. S. Europa. Address DOAH, above. FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City.
4.200 megs. 71.39 m.			FNTQ, S. S. Ile de France. Address FNSM above. GFVW, S. S. Majestic. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.
YT2, Fort Lewis, Wash. Army Airway.			GMBJ, S. S. Empress of Britain.
4.243 megs. 70.66 m.			4.415 megs. 67.91 m.
W4XBH, Tavernier, Fla.			GBZW, S. S. Berengaria. GLRZ, S. S. Aquitania.
4.253 megs. 70.50 m.			4.430 megs. 67.68 m.
WKF, Lawrenceville, N. J. A. T. & T. Address WOO above.			GDLJ, S. S. Homeric VQJM, S. S. Monarch of Bermuda. VQJP, S. S. Queen of Bermuda.
WOG, Ocean Gate, N. J.			4.436 megs. 67.59 m.
4.273 megs. 70.16 m.			VDO, Vancouver, B. C. 400 w. North-West Telephone Co., 768 Seymour St.
RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far East Radio Station." Announcements in Russian, Chinese, English.			4.465 megs. 67.14 m.
4.276 megs. 70.11 m.			CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
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.			4.470 megs. 67.07 m.
4.280 megs. 70.05 m.			YDB, Soerabaja, N. E. I. 1 kW.
These Ships work IAC and WOO. All owned by Italian Line, 1 State St., N. Y. C.			4.490 megs. 66.78 m.
IBEJ, S. S. Conte Rosso. IBGI, S. S. Conte Verde. IBLI, S. S. Conte di Savoia. ICEJ, S. S. Rex.			VDC, Calgary, Alta. Two Bros. Valley Gold Mines, Ltd. ☎ 4-4444 VDV, Two Brothers Lake, B. C. Address VDC, Calgary.
4.295 megs. 69.81 m.			4.505 megs. 66.55 m.
WTDV, St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie.			CGO, Ocean Falls, B. C. 400 w. North-West Telephone Co., 768 Seymour St., Vancouver, B. C. CZO, Prince George, B. C. 50 w. Same address. CZP, Claydon Bay, B. C. Address CGO above.
WTDW, St. Croix, Virgin Islands. 250 watts. WTDX, St. John, Virgin Islands. 250 watts.			4.512 megs. 66.44 m.
4.320 megs. 69.40 m.			ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.
DAF, Norden, Germany. Phones ships. Hauptfunk- stelle 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.			4.535 megs. 66.11 m.
4.348 megs. 68.92 m.			WDG, Rocky Point, N. Y. 40 kW. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.
CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.			4.550 megs. 65.89 m.
4.355 megs. 68.84 m.			WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.
IAC, Coltano, Italy. 56 kW. Phones ships. Radio- marittimo Coltano Radice IAC, Piza, Italy.			4.580 megs. 65.46 m.
4.390 megs. 68.30 m.			DJG, Zeesen, Germany. Reichs-Rundfunk-Gesell- schaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.
FNSK, S. S. Normandie. Works Paris. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.			4.600 megs. 65.18 m.
4.410 megs. 67.99 m.			HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249, Fri., Sat., 2130-2300.
FNSK, S. S. Normandie. Works WOO. Address 4390 megs.			4.610 megs. 65.05 m.
4.413 megs. 67.94 m.			KMYA, Juneau, Alaska. Forestry.
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 Polonia. DDFF, S. S. Reliance. DDFT, S. S. Oceana. DHAO, S. S. Hansa. 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.			4.710 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 & Smelt- ing Co.

SHORT WAVE STATIONS BY FREQUENCIES

4.785 mogs. 62.66 m. CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.	5.260 mogs. 57.00 m. YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.
4.795 mogs. 62.53 m. VE9BK, Vancouver, B. C. 250 w. Radio Sales Service Ltd., 780 Beatty St.	5.265 mogs. 56.96 m. WQN, Rocky Point, N. Y. Address WDG, 4.535 mogs.
4.810 mogs. 62.33 m. YDE2, Solo, N. E. I. 100 watts. YDL2, Solo, N. E. I. Owner: Solosche Radio Vereeniging.	5.300 mogs. 57.57 m. ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS, 4.512 mogs.
4.820 mogs. 62.20 m. GDW, Rugby, England. Phones N. Y. Engineer-in-Chief, GPO, (Radio Section), Armour House, St. Martins Le Grand, London EC1.	5.375 mogs. 55.78 m. RSB, Stalinsk, USSR. 2 kW.
4.840 mogs. 61.95 m. CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.	5.400 mogs. 55.52 m. CGP, Prince Rupert, B. C. North-West Telephone Co., 768 Seymour St., Vancouver.
4.860 mogs. 61.69 m. CZ5L, Mud Lake, P. Q. Dominion Skyways, Ltd.	5.400 mogs. 55.52 m. CZQ, Anyox, B. C. Address CGP above. HAT, Szekesfehervar, Hungary. 6 kW. "Justice for Hungary!" Announcements French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserletli Allomas, IX Kerulet Gyali Ut 22, Budapest, Hungary.
4.865 mogs. 61.63 m. CGT, Campbell River, B. C. North-West Telephone VOO, Vancouver, B. C. 400 w. North-West Telephone Co., 768 Seymour St.	5.405 mogs. 55.47 m. VXX, Sage Creek, B. C. N. W. Telephone Co., 768 Seymour St., Vancouver. WKDL, Miami, Fla. Airways. WMDU, San Juan, Puerto Rico. Airways.
4.875 mogs. 61.50 m. RKF, Moscow, USSR. 20 kW.	5.415 mogs. 55.37 m. IAF, Fiumicino, Italy. 5 kW.
4.975 mogs. 60.27 m. GBC, Rugby, England. 5kW. Phones ships. Address GDW, 4.820 mogs.	5.435 mogs. 55.16 m. LSH, Buenos Aires, Argentina. Compania Radioteografica Arg., San Martin 301-329.
4.988 mogs. 60.11 m. WWAD, S. S. Violet. Works Lighthouses on Great Lakes.	5.440 mogs. 55.11 m. RSN, Sverdlovsk, USSR. 10 kW.
5.000 mogs. 59.96 m. WWV, Beltsville, Md. 1 kW. Standard frequency service, Wed., 1430-1530. Nat'l Bureau of Standards, Washington, D. C.	5.490 mogs. 54.61 m. ROI, Sverdlovsk, USSR. 15 kW.
5.015 mogs. 59.78 m. I63, Bolling Field, Va. United States Army airport.	5.505 mogs. 54.46 m. WQN, Rocky Point, N. Y. Address WDG, 4.535 mogs.
5.025 mogs. 59.67 m. ZFA St. George (Hamilton) Bermuda. 1.5 kW. Phones WOB nights.	5.520 mogs. 54.32 m. TISHH, San Ramon, Costa Rica. 200 w. "La Voz de San Ramon." Address Sres. Herrera. Daily 1530-1700; 2000-2130.
5.040 mogs. 59.59 m. RIR, Tiflis, USSR. 4 kW.	5.540 mogs. 54.11 m. VXU, Regina, Sask. Dept. of Natural Resources, Govt. of the Province of Sask.
5.078 mogs. 59.06 m. WCN, Lawrenceville, N. J. Works GDW nites. AT&T, 32 Sixth Ave., N. Y. C. W4XB1, Big Pine Key, Fla.	VXV, Hudson Bay Junction, Sask. Address VXU VXW, Portable. Address VXU above.
5.138 mogs. 58.35 m. KHIO, McGrath, Alaska. Northern Commercial Co.	5.550 mogs. 54.02 m. I2RO, Rome Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.
5.140 mogs. 58.33 m. PMY Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nillmy Bldg., Bandoeng. 0040-0240; 0640-0940.	5.600 mogs. 53.53 m. KGUD, San Antonio, Texas. WAES, Syracuse, N. Y.
5.165 mogs. 58.05 m. KNBD, Alameda, Calif. 200 w. Pan American Airways. KNBE, Glendale, Calif. Ditto. KNBF, Mokapu, Oahu, Hawaii. Ditto. KNBG, Sumay, Guam. Ditto. KNBH, Sand Island, Midway. Ditto. KNBI, Wake Island. Ditto.	5.660 mogs. 52.97 m. CFD, Kenora, Ont. 150 watts. Ont. Dept. of Lands and Forests. CFJ, Red Lake, Ont. Address CFD above.
5.198 mogs. 57.68 m. W4XBJ, Big Pine Key, Fla.	5.705 mogs. 52.55 m. CFN, Slate Creek, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd. CFU, Rossland, B. C. Address CFN above.
	5.710 mogs. 52.51 m. JDZ, Darien. Works JVU Nazaki. TGS, Guatemala City, Guat. 200 w. "de la Casa Presidencial."

SHORT WAVE STATIONS BY FREQUENCIES

5.720 megs. YVIORSC, San Cristobal, Venezuela. "La Voz de Tachira." Jesus M. Diaz. Gonzalez.	52.42 m.	5.875 megs. HRN, Tegucigalpa, Honduras. 400 w. "La Voz de Honduras." Daily 2000-2200.	51.03 m.
5.725 megs. HC1PM, Quito, Ecuador. "EI Palomar". J. L. Ponce, Box 664.	52.37 m.	5.880 megs. ETG, Addis Ababa, Ethiopia. 3.5 kw. Frank Hammar, Chief Engineer, Box 283.	50.99 m.
I2RO, Rome Italy. Address EIAR, 5,550 megs.		5.885 megs. HCK, Quito, Ecuador. 200 w. "Radiodifusora del Estado"	50.95 m.
5.730 megs. JVV, Nazaki, Japan. Works JIA, JIB, JIC at Taiwan. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	52.32 m.	5.890 megs. JIC, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	50.90 m.
5.760 megs. HJ4ABD, Medellin, Colombia. "La Voz de Catia."	52.05 m.	5.895 megs. YV8RB, Barquisimeto, Venez. "La Voz de Lara."	50.86 m.
5.764 megs. KZGF, Manila, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	52.00 m.	5.915 megs. HH2S, Port-au-Prince, Haiti. Societe Haitienne de Radiodiffusion, Boite Post. 103. S/O: "Elegie".	50.69 m.
5.780 megs. CMB2, Havana, Cuba. Cuba Transatlantic Radio Corp.	51.87 m.	5.930 megs. HJ4ABE, Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Owner: Jose M. Acevedo F. 3 chimes precede announcement.	50.56 m.
OAX4D, Lima, Peru. "Radio DUSA." Interval sig.: 2 cuckoos. "The Voice of Peru." Sign off: "A Perfect Day." All America Cables, Box 2336. Wed., Sat., 2100-2330.		5.940 megs. TG2X, Guatemala City, Guat. 200 w. "Policia Nacional."	50.47 m.
5.790 megs. JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Address JVU, 5,730 megs.	51.78 m.	5.950 megs. HJN, Bogota, Colombia. (freq. varies). Ministerio de Correos y Telegrafos.	50.39 m.
5.795 megs. KZGH, Hoilo, P. I. (Hoilo Island). Inter-Island phone. Philippine Long Distance Tele. Co.	51.74 m.	YNFLF, Managua, Nicaragua. "La Voz de Nicaragua".	
5.800 megs. YV2RC, Caracas, Venezuela. 1 kW. "Radio Caracas." "La Habla a la Nacion." Int sig: 4 chimes, sign off: "March 1BC" address: Apartado 2009.	51.69 m.	5.970 megs. 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.	50.22 m.
5.810 megs. YV7RMO, Maracaibo, Venez. "Radiodifusora Maracaibo."	51.60 m.	5.975 megs. 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.	50.18 m.
5.820 megs. CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.	51.52 m.	5.980 megs. HIX, Trujillo, D. R. J. R. Saladin, Director. 500 ³ w. HJ2ABD, Bucaramanga, Colombia. 670 w. ² Sr. Hector McCormick, Calle 2a, No. 1205.	50.14 m.
TIGPH, San Jose, Costa Rica. "Alma Tica."		XEVI, Mexico City, D. F. Apartado 2874.	
5.825 megs. HJA2, Bogota, Colombia.	51.47 m.	5.995 megs. RPT, Tashkent, USSR. 1 kW. WVD, Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	50.01 m.
KZGG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.		5.996 megs. "Radio-Tananarivo." 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.	50.00 m.
WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.		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.	
5.830 megs. CWD, Montevideo, (Cerrito), Uruguay. 1.5 kW. JZC, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Address: Manchukuo Telephone & Telegraph Co., Ltd.	51.43 m.		
5.850 megs. WOB, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	51.25 m.		
YVSRMO, Maracaibo, 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.			
5.865 megs. HI1J, San Pedro de Macoris, D. R. 40 w. Fausto M'Donastorg, Aptdo. 204.	51.12 m.		

SHORT WAVE STATIONS BY FREQUENCIES

6.000 megs.	49.97 m.	Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java. N. E. I. 0530-1100; 1745-1845; 2230-0130.
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.
6.045 megs.	49.60 m.	H91B, Santiago, D. R. Hotel Mercedes.
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.
6.055 megs.	49.50 m.	HJ3ABD, Bogota, Colombia. 50 w. "Colombia Brcdstg." Apartado 509.
6.060 megs.	49.48 m.	OXY, Skamlebaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradiofonien, Heibergsgade 7, Copenhagen. Daily 1300-1830.
6.066 megs.	49.92 m.	HJ1ABJ, Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.
6.060 megs.	49.89 m.	CJCX, Sydney, N. S. 1 kW. Relays CJCB. N. Nathanson.
6.012 megs.	49.87 m.	HJ3ABH, Bogota, Colombia. 1.2 kW. "La Voz de la Victor." Member, Cadena Indo-Americana. Add: Manuel J. Gaitan, Almacenes Victor, Apartado 565. Sun., 1200-1400; 1600-2100. Other days, 1130-1400; 1800-2300.
6.020 megs.	49.80 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 der Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
6.030 megs.	49.72 m.	HP5B, Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.
6.040 megs.	49.64 m.	PRA8, Pernambuco, Brazil. 3 kW. "A Voz do Norte." Radio Club Pernambuco, Ave. Cruz Cabaga 394.
6.080 megs.	49.31 m.	CP5, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.
6.085 megs.	49.27 m.	HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270.
6.085 megs.	49.56 m.	I2RO, Rome, Italy. Address EIAR. 5.550 megs.
6.085 megs.	49.50 m.	HJ3ABD, Bogota, Colombia. 50 w. "Colombia Brcdstg." Apartado 509.
6.060 megs.	49.48 m.	OXY, Skamlebaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradiofonien, Heibergsgade 7, Copenhagen. Daily 1300-1830.
6.012 megs.	49.87 m.	HJ3ABH, Bogota, Colombia. 1.2 kW. "La Voz de la Victor." Member, Cadena Indo-Americana. Add: Manuel J. Gaitan, Almacenes Victor, Apartado 565. Sun., 1200-1400; 1600-2100. Other days, 1130-1400; 1800-2300.
6.020 megs.	49.80 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 der Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
6.030 megs.	49.72 m.	HP5B, Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.
6.040 megs.	49.64 m.	PRA8, Pernambuco, Brazil. 3 kW. "A Voz do Norte." Radio Club Pernambuco, Ave. Cruz Cabaga 394.
6.080 megs.	49.31 m.	CP5, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.
6.085 megs.	49.27 m.	HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270.
6.085 megs.	49.56 m.	I2RO, Rome, Italy. Address EIAR. 5.550 megs.

SHORT WAVE STATIONS BY FREQUENCIES

6.090 mogs.	49.23 m.	HJ4ABP, Medellin, Colombia. RKK, Moscow, USSR. 20 kW.
CRCX, Toronto, Ont. 1 kw. Relays Canadian Radio Commission-CRCT. Address: R. R. No. 4. Daily 1830-2330.		
VE9BJ, St. John, N. B. 50 watts. New Brunswick Brcdstg. Co., Admiral Weatty Hotel.		
6.100 mogs.	49.16 m.	6.140 mogs.
HJ4ABL, Manizales, Colombia. 150 watts. "L for Lady." "Ecos del Occidente." Chimes at midnight. Apartado 50. Sat., 2300-0100.		88.83 m.
W3XAL, Bound Brook, N. J. 20 kW. N.B.C., 30 Rockefeller Plaza, N. Y. C. Relays NBC-WJZ. s/o "Star Spangled Banner."		W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA.
W9XF, Chicago (Downers Grove), Ill. 5 kW. Relays NBC-WENR, N. B. C., Merchandise Mart, Chicago.		6.145 mogs.
ZTJ, Johannesburg, U. of So. Africa. 5 kW. s/o God Save The King. African Brcdstg. Co., Box 4559, Johannesburg.		48.79 m.
		....., Villejust, France. 120 kW. (Under constr.)
6.110 mogs.	49.07 m.	6.147 mogs.
CHNX, Halifax, N. S. Maritime Broadcasting Co., Ltd., Box 998.		48.78 m.
GSL, Daventry, England. "L for Liberty." Int. sigs: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6,950 mogs. Daily, 2200-2300.		ZEB, Bulawayo, South. Rhodesia. 500 w.
HJ4ABB, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.		6.150 mogs.
6.112 mogs.	49.05 m.	48.75 m.
VUC, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.		CB615, Santiago, Chile. "Radlodyfusora Pilot." s/o Rhapsody in Blue. Compania Internacional de Radio, Casilla 16-D.
6.115 mogs.	49.03 m.	CJRO, Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.
HJ1ABE, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31.		CSL, Lisbon, Portugal.
6.120 mogs.	48.99 m.	H15N, Santiago, D. R. 100 w. Sr. M. Smester.
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. s/o "Star Spangled Banner."		HJ5ABC, Cali, Colombia.
XEFT, Veracruz, Ver. 20 w. "La Voz de Veracruz." Jose Rodriguez Lopez, Manager, Av. Independencia 28.		6.155 mogs.
YDA5, Bandoeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Tegallegh 0,23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.		48.74 m.
6.125 mogs.	48.95 m.	COKG, Santiago, Cuba. 50 w. "Ask for Bacardi." Sres. Grau y Caminero, Aptdo. 137.
ZGE, Kuala Lumpur, Federated Malay States. 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.		6.165 mogs.
6.130 mogs.	48.91 m.	48.63 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. Week-days, 1100-2400.		YV3RC, Caracas, Venezuela. "Radlodyfusora Venez." Bajos Pasaje Ramella.
LCL, Jeloy, Norway. Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.		6.170 mogs.
FGXA, Guatemala City, Guat. 20 w. Liberal Progresista.		48.60 m.
XEOK, Tijuana, L. C., Mex. Relays XEOK. Carlos de la Sierra, Box 1441, San Diego, Calif.		HJ2ABA, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana. Sr. Pompelio Sanchez.
6.132 mogs.	48.89 m.	HJ3ABF, Bogota, Colombia. 50 w. "HKF, La Voz de Bogota." s/o Song of the Islands. int. sig.: 6 chimes.
CT1GO, Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.		6.182 mogs.
		48.50 m.
		XEXA, Mexico City, D. F. s/o March of the Toys. Secretaria de Educacion Publica.
		6.185 mogs.
		48.48 m.
		H11A, Santiago de los Caballeros, D. R. "La Voz del Yaque."
		6.230 mogs.
		48.13 m.
		OAX4G, Lima, Peru. Relays OAX4B. R. Grellaud y Cia.
		6.235 mogs.
		48.09 m.
		HRD, La Ceiba, Honduras. 250 w. "La Voz de Atlantida."
		6.280 mogs.
		47.74 m.
		CO9WR, Sancti-Spiritus, Cuba. 150 w. Weiss y Ramirez, Independencia 33.
		HIG, Trujillo, D. R. 50 w. Int. sig: a bawling calf. Sr. A. Cordero P.
		6.285 mogs.
		47.70 m.
		CZA, Drummondville, P. Q. Works ships.
		6.300 mogs.
		47.59 m.
		HJ1ABH, Cienaga, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.
		YV12RM, Maracay, Venezuela. Luis y Victor Croquer.
		6.315 mogs.
		47.48 m.
		HIZ, Trujillo, D. R. 100 watts. "La Voz de los Muchachos." Frank Hatton, Calle Duarte No. 68.
		6.330 mogs.
		47.36 m.
		JZG, Nazaki, Japan. 10 kW. Works ships. Kokusai-

SHORT WAVE STATIONS BY FREQUENCIES

Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	6.556 megs.	47.17 m.	6.550 megs.	45.76 m.
HRP1, San Pedro Sula, Honduras.	6.375 megs.	47.03 m.	TIRCC, San Jose, Costa Rica. "Radioemisoras Catolica Costariense." Box 1064.	500 watts.
YV4RC, Caracas, Venezuela. "Ecos del Avila." Member: Cadena Indo-Americana. Address: Estacion SAR, Este 10, Bis No. 71, Caracas. Daily, 1630-2230.	6.380 megs.	46.99 m.	CWE, Cerrito (Montevideo) Uruguay. 1.5 kW.	
H13U, Santiago, D. R. "La Voz del Comercio."	6.385 megs.	46.94 m.	6.615 megs.	45.32 m.
WO9, Mitchell Field, Mineola, Long Island. Army airport.	6.400 megs.	46.85 m.	KIKL, Los Angeles, Calif.	
WTR, Albrook Field, Canal Zone. Army airport.	6.410 megs.	46.77 m.	WMEP, Suffield, Ohio. 400 watts. Airways.	
YV9RC, Caracas, Venez. "Ondas Populares." Teatro Municipal, calle Este 8.	6.420 megs.	46.70 m.	WMEQ, Wheeling, Ill. Airways.	
T1PG (T12PG), San Jose, Costa Rica. 1 kW. "La Voz de la Victor." Perry Girton, Apartado 224. Sun., 0600-0700; 1100-2230. Weekdays, 1100-1300; 1730-2230.	6.425 megs.	46.66 m.	WMEU, St. Petersburg, Fla. 400 watts. Airways.	
H11S, Puerto Plata, D. R. 20 w. Sr. G. Sarnelli.	6.425 megs.	46.66 m.	WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.	
CZG, Prince Rupert, B. C. B. C. Provincial Police.	6.445 megs.	46.52 m.	WNEK, Jackson Heights, L. I.	
VE9AS, Frederickton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick.	6.447 megs.	46.50 m.	6.618 megs.	45.31 m.
VK1, Selfridge Field, Mt. Clemens, Mich. Army airport.	6.447 megs.	46.50 m.	WVD, Seattle, Wash. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg.	
W3XL, Bound Brook, N. J. 100 kW. NBC Control station and cue station for nearly all special "stunt" broadcasts. Address NBC, 30 Rockefeller Plaza, N. Y. City.	6.450 megs.	46.48 m.	6.620 megs.	45.29 m.
W9XBS, Chicago (Downers Grove), Ill. 2.5 kw. NBC, Merchandise Mart.	6.480 megs.	46.27 m.	PRADO, Riobamba, Ecuador. "Estacion El Prado." Member: Cadena Indo-Americana. Apartado 98. Thurs., 2100-2330 and other nights irregularly.	
W9XF, Chicago (Downers Grove), Ill. 2.5 kw. NBC.	6.500 megs.	46.13 m.	6.630 megs.	45.22 m.
RTA, Novosibirsk, USSR. 15 kW.	6.520 megs.	45.98 m.	HIT, Trujillo, D. R. 200 w. "La Voz de la RCA-Victor." Box 1105.	
PD1, Maxwell Field, Montgomery, Ala. Army airport.	6.520 megs.	45.98 m.	6.645 megs.	45.12 m.
PE2, Wright Field, Dayton, Ohio. Army airport.	6.520 megs.	45.98 m.	FG7, Langley Field, Va. Army airport.	
HJ1ABB, Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJ1ABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.	6.545 megs.	45.81 m.	WYV, Patterson Field, Ohio. Army Airway.	
HJ4ABC, Ibague, Colombia. "Ecos de Combeima." Mario M. Barrios, Aptdo. 39.	6.620 megs.	45.00 m.	6.650 megs.	45.09 m.
H14V, Trujillo, D. R. 25 w. "La Voz de la Marina." Aptdo. 771.	6.666 megs.	44.98 m.	HC2RL, Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945.	
H1L, Trujillo, D. R. 50 watts.	6.672 megs.	44.94 m.	IAC, Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.	
H14D, Trujillo, D. R. "La Voz de Quisqueya."	6.672 megs.	44.94 m.	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.	
YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.	6.680 megs.	44.82 m.	6.662 megs.	45.00 m.
YV11RB, Bolivar, Venez. "Ecos del Orinoco."	6.680 megs.	44.82 m.	WXH, Ketchikan, Alaska. Phones Seattle.	
	6.680 megs.	44.82 m.	6.666 megs.	44.98 m.
	6.680 megs.	44.82 m.	ZP10, Asuncion, Paraguay.	
	6.680 megs.	44.82 m.	6.672 megs.	44.94 m.
	6.680 megs.	44.82 m.	YVQ, Maracay (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radiotelegrafico.	
	6.680 megs.	44.82 m.	6.675 megs.	44.91 m.
	6.680 megs.	44.82 m.	DGK, Nauen, Germany. Address: Reichspostzentramt, Telegraphentechnisches Reichsamt, Schoneberger Strasse 11-15, Berlin-Tempelhof.	
	6.680 megs.	44.82 m.	6.690 megs.	44.82 m.
	6.680 megs.	44.82 m.	CGA6, Drummondville, P. Q. Address VE9DN. 6.095 megs.	
	6.680 megs.	44.82 m.	6.700 megs.	44.75 m.
	6.680 megs.	44.82 m.	T1EP, San Jose, Costa Rica. "La Voz del Tropico." Sr. Eduardo Pinto Hernandez, Apartado 257. Member: Cadena Indo-Americana. Daily, 1900-2200.	
	6.680 megs.	44.82 m.	6.718 megs.	44.62 m.
	6.680 megs.	44.82 m.	KBK, Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	
	6.680 megs.	44.82 m.	WDB, Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau. 66 Broad St., N. Y. City.	

SHORT WAVE STATIONS BY FREQUENCIES

6.720 mgs. CFU, Rossland, B. C. Consolidated Mining & Smelting Co.	44.62 m.	Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.
6.725 mgs. WQO, Rocky Point, N. Y. Address WDB, 6.718 mgs.	44.57 m.	7.220 mgs. HAT2, Szekesterhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserletli Allomas, IX Kerulet Gyali Ut 22, Budapest.
6.735 mgs. KEQ, Kahuku, Oahu, Hawaii. Works California.	44.53 m.	7.225 mgs. RPK, Moscow, USSR. 20 kW.
6.750 mgs. JVT, Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG, 6.330 mgs.	44.42 m.	7.260 mgs. RFF, Kharkov, USSR. 1kW.
6.755 mgs. WOA, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.	44.38 m.	7.275 mgs. RTZ, Irkutsk, USSR. 15 kW.
6.760 mgs. CJA6, Drummondville, P. Q. Address VE9DN, 6.005 mgs.	44.35 m.	7.280 mgs. HJ1ABD, Cartagena, Colombia. 100 w. "Ondas de la Heroica." Int. sig., gong. s/o Stars and Stripes Forever. Ignacio de Villarreal, Apartado 252. Daily, 1945-2115.
6.814 mgs. HIH, San Pedro de Macoris, D. R. 150 w. "La Voz del Higuamo." Sr. Domingo Dominguez.	44.00 m.	7.370 mgs. WJN, Rocky Point, N. Y. Address WDB, 6.718 mgs.
6.860 mgs. KEL, Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.	43.71 m.	7.380 mgs. XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores.
6.870 mgs. RKF, Moscow, USSR. 20 kW.	43.64 m.	7.390 mgs. JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 mgs.
6.880 mgs. CGA7, Drummondville, P. Q. Address VE9DN, 6.005 mgs.	43.58 m.	ZLT2, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.
6.900 mgs. HI3C, La Romana, D. R. 25 w. "La Voz de la Marina." R. P. Bernardo.	43.45 m.	7.400 mgs. WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 mgs.
RKF, Moscow, USSR. 20 kW.		7.465 mgs. HJP, Bogota, Colombia. Works Hialeah nights.
6.905 mgs. GDS, Rugby, England. 15 kW. Phones N. Y. nights Address GDW, 4.820 mgs.	43.42 m.	7.470 mgs. JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 mgs.
6.935 mgs. WEB, Rocky Point, N. Y. Works Paris. Address WD 3, 6.718 mgs.	43.23 m.	7.510 mgs. JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 mgs.
6.950 mgs. WKP, Rocky Point, N. Y. Address WDB, 6.718 mgs.	43.13 m.	7.520 mgs. KKH, Kahuku, Oahu, Hawaii. Works Dixon.
6.990 mgs. JVS, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 mgs.	42.89 m.	RKI, Moscow, USSR. 20 kW.
7.000 mgs. 41.07 meters to 42.83 meters. Amateur Band. Foreign amateurs use phone in this band. USA, code only.	7.300 m.	7.550 mgs. CFQ, Edmonton, Alta. The E. Journal, Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg. Address CGE above.
7.005 mgs. HB9H, Berne, Switzerland. Swiss Shortwave Association, 30 Neugengasse, Berne. First Monday each month, 1500-1615.	42.80 m.	T18WS, Puntarenas, Costa Rica. "Ecos del Pacifico." Aptdo. 75.
7.080 mgs. VP3MR, Georgetown, Br. Guiana. "The Voice of Guiana." Sun., 0745-1015; Mon., 1545-1645; Thurs., 1700-1845; Mon., Wed., Sat., 1845-1945.	42.35 m.	7.565 mgs. KWY, Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.
7.090 mgs. HKE, Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.	42.29 m.	7.575 mgs. XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.
7.175 mgs. CR6AA, Lobito, Portuguese West Africa. "Radio	41.78 m.	7.610 mgs. KWX, Dixon, Calif. Address KWY, 7.565 mgs.
		7.620 mgs. ETD, Addis Ababa, Ethiopia. 2 kW. Frank A. Ham-

SHORT WAVE STATIONS BY FREQUENCIES

mar, Chief Wireless Engineer, Dept. of Communications.		8.075 megs.	37.13 m.
7.626 megs. 39.32 m.		WEZ (W2XBJ), Rocky Point, N. Y. Works Paris.	
RIM, Tashkent, USSR. Works RKL. 20 kW.		8.095 megs.	37.04 m.
7.680 megs. 39.04 m.		VLK, Pennant Hills (Sydney) Australia. Address	
YBZ, Menado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Voer, Engineer-in-charge, Post-Telegraafen Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.		VLZ, 7.960 megs.	
7.685 megs. 39.01 m.		8.120 megs.	36.92 m.
HJA3, Barranquilla, Colombia.		KTP, Manila, P. I. Phones Dixon near 1000. Address	
TIR, Cartago, Costa Rica. Address: Compania Radiografica Internacional de C. R., San Jose.		KBK, 6.738 megs.	
7.715 megs. 38.86 m.		8.180 megs.	36.65 m.
KEE, Bolinas, Calif. Address KEL, 6.860 megs.		PSK, Rio de Janeiro (Marapicu) Brazil. Phones	
7.740 megs. 38.74 m.		N. Y. and Buenos Aires. Companhia Radio	
CEC, La Granja (Santiago) Chile. Address CEC, 5.820 megs.		Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.	
7.797 megs. 38.47 m.		8.220 megs.	36.47 m.
HBP, Prangins (Geneva) Switzerland. 20 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address: M. G. Gallarati, Information Section, League of Nations, Geneva. Sat., 1730-1815.		WNED, Tampa, Fla. Pan American Airways, Inc.	
7.820 megs. 38.34 m.		ZSV, Walvis Bay, Union of South Africa. 1 kW.	
OCO, Lima (Valverde), Peru.		8.225 megs.	36.45 m.
7.850 megs. 38.19 m.		RRD, Moscow, USSR. 20 kW.	
HC2JSB, Guayaquil, Ecuador. Interval sig.: one gong. "Ecuador Radio." Juan S. Behr.		8.396 megs.	35.71 m.
7.880 megs. 38.05 m.		HSP, Bangkok, Siam. 20 kW. Address HSP, 7.968	
JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.		megs.	
7.900 megs. 37.95 m.		8.455 megs.	35.46 m.
VE9EW, Toronto, Ont. J. E. Watson, 60 Rochester Ave.		CWF, Montevideo (Cerrito) Uruguay. 1.5 kW.	
7.920 megs. 37.96 m.		8.464 megs.	35.42 m.
GDP, Rugby, England. Address GDW, 4.820 megs.		DAF, Norden, Germany. Works ships. Address	
7.960 megs. 37.67 m.		Hauptfunkstelle Norddeich, Norden-Land.	
VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney.		8.500 megs.	35.47 m.
XGL, Shanghai, China. Address: XGO, 7.575 megs.		JZF, Nazaki, Japan. 10 kW. Works ships. Address	
7.968 megs. 37.63 m.		JZG, 6.330 megs.	
HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.		8.515 megs.	35.21 m.
7.980 megs. 37.57 m.		CZA, Drummondville, P. Q. Works ships. CMC, Box 1690, Montreal.	
VLZ (VK2ME), Pennant Hills (Sydney), Australia. Address VLZ, 7.960 megs.		IAC, Coltano, Italy. 60 kw. Radio Marittimo Coltano, Piza.	
8.020 megs. 37.38 m.		8.560 megs.	35.03 m.
HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.		WOG, Ocean Gate, N. J. Works London.	
8.035 megs. 37.31 m.		WOO, Ocean Gate, N. J. 20 kW. Works ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.	
CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat.		WOY, Lawrenceville, N. J. 20 kW. Address WOO above.	
8.050 megs. 37.24 m.		8.565 megs.	35.00 m.
WXA, Juneau, Alaska. Works WVD at 2400.		HAT3, Szekesfeharvar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.	
8.070 megs. 37.15 m.		8.575 megs.	34.96 m.
IRF, Rome, Italy. Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.		TYD2, Pointoise, France. Phones Rabat.	
		YCP, Balikpapan, N. E. I. 3 kW. Address YBZ, 7.680 megs.	
		8.590 megs.	34.90 m.
		YNVA, Managua, Nicaragua.	
		8.620 megs.	34.78 m.
		WVD, Seattle, Wash. Works Alaska at 2400. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	
		8.625 megs.	34.76 m.
		HC2CW, Guayaquil, Ecuador. "Ondas del Pacifico."	
		8.665 megs.	34.60 m.
		CO9JQ, Camaguey, Cuba. 150 watts. Rafael Grimany. Calle General Gorn ez No. 4.	

SHORT WAVE STATIONS BY FREQUENCIES

8.680 megs.	34.54 m.	GBC , Rugby, England. Works ships. Address GDW , 4.820 megs.	WKL , Rocky Point, N. Y. Address WAD , 8.930 megs.
8.690 megs.	34.50 m.	VWZ , Kirkee, Poona, India. 10 kW. Works also on freqs. 8.691, 8.693, 8.700 megs. Phones London.	8.950 megs.
8.708 megs.	34.43 m.	VWZ , Kirkee, Poona, India. 10 kW. Phones London.	WEL , Rocky Point, N. Y. Address WAD , 8.930 megs.
8.710 megs.	34.42 m.	CEC , La Granja, (Santiago) Chile. 800 watts. Address CEC , 5.820 megs.	8.960 megs.
8.750 megs.	34.26 m.	ZBW , Hong Kong, 500 w. The Secy., Hong Kong Brdctg. Committee, P. O. Box 200.	FVA , Algiers, Algeria. Phones Paris.
8.770 megs.	34.19 m.	RSZ , Irkutsk, USSR. 15 kW. Tests with RNE .	9.010 megs.
8.775 megs.	34.16 m.	PNI , Macassar, Celebes, N. E. I. 3 kW. Phones Bandoeng. Address YBZ , 7.680 megs.	KEJ , Bolinas, Calif. 20-40 kW. Address KEL , 6.860 megs.
8.790 megs.	34.11 m.	HJA3 , Barranquilla, Colombia.	9.020 megs.
8.810 megs.	34.03 m.	FNSK , S. S. Normandie. Works Paris nights. French Lines. Pier 88, North River, Foot of W. 48th St., N. Y. C.	GCS , Rugby, England. 15 kW. Phones N. Y. night.
8.830 megs.	33.95 m.	SHIPS . For address of these ships refer to 4.413 megs., 4.415 megs and 4.430 megs. All these ships work with WOO . The German ships work also DAF ; British ships with GBC and CZA ; Furness-Bermuda ships with ZFA-B .	9.040 megs.
DBBR , S. S. Berlin.			TYA2 , Pontoise, France. Phones Algeria. Service de la TSF, 5 rue Froidevieux, Paris.
DDCP , S. S. Cap Polonio.			9.045 megs.
DDFF , S. S. Reliance.			VWY , Kirkee, Poona, India. Indian Radio & Cable Comm. Co., Poona 6.
DDFT , S. S. Oceana.			9.050 megs.
DHAO , S. S. Hansa			TFK , Reykjavik, Iceland. 8.5 kW.
DHDL , S. S. Cap Arcona.			9.120 megs.
DHEY , S. S. Deutschland.			CP6 , La Paz, Bolivia. "Illimani Radio." Compania Radio Boliviana, Casilla 637.
DHJZ , S. S. Hamburg.			9.125 megs.
DHRL , S. S. New York.			HAT4 , Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2 , 7.220 megs.
DOAH , S. S. Bremen.			9.168 megs.
DOAI , S. S. Europa.			YVR , Santa Rita, Maracay, Venezuela. Address YVQ , 6.672 megs.
FNSK , S. S. Normandie. Works WOO nights. Address 8.810 megs.			9.170 megs.
FNSM , S. S. Paris.			KZGF , Manila, P. I. Inter-Island phone.
FNTQ , S. S. Ile de France.			WNA , Lawrenceville, N. J. Works London. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City
GBZW , S. S. Berengaria.			9.180 megs.
GDJL , S. S. Homeric.			ZSR , Capetown (Klipheuvall), Union of S. Af. Overseas Communication Co., Kodak House, Shortmarket St.
GFVV , S. S. Majestic.			9.280 megs.
GLRZ , S. S. Aquitania.			GCB , Rugby, England. 15 kW. Phones Canada. Address Engineer-in-Chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.
GMBJ , S. S. Empress of Britain.			9.332 megs.
VQJM , S. S. Monarch of Bermuda.			CGA4 , Drummondville, P. Q. Phones London. Address VE9DN , 6.005 megs.
VQJP , S. S. Queen of Bermuda.			9.380 megs.
8.900 megs.	33.69 m.	HCJB , Quito, Ecuador. 150 watts. "La Voz de los Andes." Interval sig.: 4 strokes on gong. Address Clarence W. Jones, Casilla 691, ZLS, Wellington, N. Z. Address Supt. of Post and Telegraphs, GPO.	CSW , Lisbon, Portugal.
8.930 megs.	33.57 m.	WAD , Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. City.	9.415 megs.
8.940 megs.	33.54 m.	KZGG , Cebu, Island of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	PLV , Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veen, Post-Telegraafen TelefoonDienst, Bedrijf der Radiostations op Java, Bandoeng.
			9.428 megs.
			COCH , Vedado, Havana, Cuba. 150 w. "Cuba, the Evergreen Land." Address: No. 2, B. Street.
			9.448 megs.
			WES , Rocky Point, N. Y. Address WAD , 8.930 megs.
			9.450 megs.
			TG1X , Guatemala City, Guat. 200 watts. Ministerio de Fomento.

SHORT WAVE STATIONS BY FREQUENCIES

9.460 mogs. 31.69 m. WKJ, New Brunswick, N. J. Address WNA, 9.170 mogs.	9.575 mogs. 31.31 m. VUC, Calcutta, India. Refer to VUC, 6.112 mogs.
9.470 mogs. 31.66 m. WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 mogs.	9.580 mogs. 31.30 m. GSC, Daventry, England. 20 kW. "C for Corporation." For other details see GSB, 9.510 mogs. Daily, 1800-2000; 2200-2300.
9.480 mogs. 31.63 m. KES, Bolinas, Calif. RCA Communications, Inc.	LRX, Buenos Aires, Argentina. "Radio El Mundo." Relays LRI, 5 kw.
9.490 mogs. 31.59 m. KZGH, Iloilo, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.
OXY, Copenhagen, Denmark. Not used at present.	9.585 mogs. 31.28 m. 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.
VK3ME, Melbourne, Victoria, Australia (Braybank). 5 kW. Amalgamated Wireless (A/sia) Ltd., Box No. 1272L, Elizabeth St. P. O., Melbourne.	..... Villejust, France. 120 kW. (Under construction.)
9.500 mogs. 31.56 m. PRFS, Rio de Janeiro, Brazil. "Radio Journal." Program consists of talks in Portuguese, Spanish, English and sometimes French, German. Address: Director of the Imprensa Nacional.	9.590 mogs. 31.26 m. HP5J, Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.
XG0X, Nanking, China. See 6.000 mogs.	W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 mogs. Daily, 1200-2000.
9.510 mogs. 31.53 m. GSB, Daventry, England. 20 kW. "B for Broadcasting." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6.050 mogs. Daily, 0115-0315; 1215-1500; 1515-1645.	9.595 mogs. 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 mogs. Sat., 1730-1815.
HJU, Buenaventura, Colombia. National Railways.	9.600 mogs. 31.23 m. CB960, Santiago, Chile. "Radiodifusora Pilot." s/o Rhapsody in Blue. Compania Internacional de Radio, Casilla 16-D.
9.520 mogs. 31.49 m. XEDQ, Guadalajara, Jal. Relays XED. Address Cia. Radiofonografica, Apartado 197. Daily, 0800-0900; 1200-2400.	LQA, Buenos Aires, Argentina. Compania Internacional de Radio, Defensa 143, B. A.
XEME, Merida, Yuc. "La Voz de Yucatan." Calle 59 No. 517.	9.610 mogs. 31.19 m. DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 mogs.
9.530 mogs. 31.46 m. W2XAF, Schenectady, N. Y. 40 kW. Relays NBC-WGY. The General Electric Co., Schenectady. "The Voice of Electricity." Programs commence with electrical discharge of 10,000,000 Volts (man-made lightning). Sun., 1615-2400; Thurs., 1700-2300; other days, 1730-2300.	HJ1ABP, Cartagena, Colombia. 750 w. "Radio Cartagena." Aptdo. 37.
9.540 mogs. 31.43 m. DJN, Zeesen, Germany, 8 kW. Programs close with "Deutschland ueber alles" and "Horst Wessellied." Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 mogs.	HH3W, Port-au-Prince, Haiti.
LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 mogs. Daily, 0500-0800.	9.635 mogs. 31.12 m. I2RO, Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.
9.550 mogs. 31.39 m. HH2R, Port au Prince, Haiti.	9.650 mogs. 31.07 m. CT1AA, Lisbon, Portugal. 2kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguaiar 144.
9.560 mogs. 31.36 m. DJA, Zeesen, Germany. For details see DJN, 9.540 mogs.	9.675 mogs. 30.99 m. DZA, Zeesen, Germany.
9.565 mogs. 31.35 m. VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.	9.700 mogs. 30.91 m. CQN, Macau. 500 w.
9.570 mogs. 31.33 m. 32.1 W1XK, Millis (Boston), Mass. 10 kW. Relays WBZ-WBZA, NBC programs. "These are the New England Westinghouse stations WBZ, WBZA, W1XK."	9.710 mogs. 30.88 m. GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 mogs., Hallowell, Maine.
W8XK, Pittsburgh (Saxonburg), Pa. This frequency loaned to W1XK.	9.750 mogs. 30.75 m. RKf, Moscow, USSR. 20 kW. VLJ, Sydney (Pennant Hills), Australia. 3.5 kW.

SHORT WAVE STATIONS BY FREQUENCIES

Phones Bandoeng. Address VK2ME, 9.585 megs.	10.160 megs.	29.51 m.
WOF, Lawrenceville, N. J. Address WNA, 9.170 megs.	RIO, Baku, USSR. Works RIR, RNE mornings.	
9.790 megs. 30.63 m.	10.165 megs. 29.50 m.	
GCW, Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9.280 megs.	HS8PJ, Bangkok, Siam. 10 kw.	
9.810 megs. 30.56 m.	10.200 megs. 29.34 m.	
DFE, Nauen, Germany.	PSH, Rio de Janeiro (Marapica), Brazil. 12 kW. Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 500.	
9.830 megs. 30.50 m.	10.250 megs. 29.25 m.	
IRM, Rome, Italy. "Italo Radio"	LSL, Buenos Aires (Hurlingham), Argentina. 5 kW.	
9.840 megs. 30.47 m.	10.260 megs. 29.22 m.	
JYS, Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.	PMN, Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9.415.	
9.862 megs. 30.40 m.	10.285 megs. 29.15 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.	DZC, Zeesen, Germany. Address DGK, 6.675 megs.	
9.870 megs. 30.38 m.	10.290 megs. 29.14 m.	
WON, Lawrenceville, N. J. 20 kW. Works London. Add.: WNA, 9.170.	HPC, Panama City, Panama.	
9.895 megs. 30.30 m.	10.330 megs. 29.02 m.	
LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9.600 megs.	ORK, Brussels (Ruyssede), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telegraphes et des Telephones, Direction des Radiocommunications. Bruxelles.	
9.920 megs. 30.22 m.	10.335 megs. 29.01 m.	
JDY, Darien. Works JVU, Nazaki.	ZFD, St. George, Bermuda. 1.5 kW. Address reports on special transmissions to Town Clerk, St. George.	
9.930 megs. 30.19 m.	10.350 megs. 28.97 m.	
HJY, Bogota, Colombia. Phones CEC, OCI evenings.	LSX, Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	
9.950 megs. 30.13 m.	10.370 megs. 28.91 m.	
GCU, Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9.280 megs.	EHZ, El Tablero, Canaries. Works EHX.	
9.990 megs. 30.01 m.	10.375 megs. 28.89 m.	
KAZ, Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.	JVO, Nazaki, Japan. 10 kW. Works KEA, JZB, JZC, Harbin. Address JZG, 6.338 megs.	
LSL, Buenos Aires, Argentina. Address LQA, 9.600 megs.	10.380 megs. 28.88 m.	
10.000 megs. 29.98 m.	WCG, Tuckerton, N. J. 40 kw.	
WWV, Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.	10.400 megs. 28.83 m.	
10.040 megs. 29.86 m.	KEZ, Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.	
HII, Trujillo, D. R. Cia. Dominicana de Telefonos, Aptdo. 577.	10.410 megs. 28.80 m.	
10.042 megs. 29.85 m.	KET, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs PDK, Kootwijk, Netherlands. 60 kW. Address Radiolaboratory, Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.	
DZB, Zeesen, Germany.	10.420 megs. 28.77 m.	
10.055 megs. 29.82 m.	XGW, Shanghai, China. 20 kW. Address XGO, 7.575 megs.	
SUV, Cairo (Abu Zabal), Egypt. 10 kW. Marconi Radio Telegraph Co., of Egypt, S. A., Box 795, Cairo.	10.430 megs. 28.75 m.	
ZFB, Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.	YBG, Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoondienst, Sordangweg 2, Medan. Daily, 0430-0530; 2030-2300.	
10.070 megs. 29.77 m.	10.465 megs. 28.64 m.	
EHY, Madrid (Pozuelo del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	WKC, Rocky Point, N. Y. 100 kW. Address WAD, 8.930 megs.	
10.080 megs. 29.74 m.		
RIR, Tiflis, USSR. Works RIO, RNE mornings.		
10.135 megs. 29.58 m.		
OPM, Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.		

SHORT WAVE STATIONS BY FREQUENCIES

10.520 mags. CFA4, Drummondville, P.Q. CMC, Box 1696, Montreal VLK, Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 mags.	28.50 m. 11.595 mags. VRR4, Stoney Hill, Jamaica. Works WNC.	25.86 m. 25.71 m. JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 mags.
10.530 mags. GBX, Rugby, England. 8 kW. Address GCB, 9.280 mags.	28.47 m. 11.670 mags. PPQ, Rio de Janeiro (Santa Cruz), Brazil. 5 kW. Ad- dress, see PSH, 10.220 mags.	25.69 m.
JIB, Taihoku (Chureki), Taiwan. Works Tokyo. 6 kw. Kokusal Denwa Kaisha, Chureki Gai, Shinchiku, Taiwan.	11.680 mags. KIO, Kahuku, Oahu, Hawaii. Works Bollnas.	25.67 m.
10.550 mags. WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 mags.	11.710 mags. HJ4ABA, Medellin, Colombia. "Ecos de la Montana"	25.60 m.
10.610 mags. WEA, Rocky Point, N. Y. W2XBJ 40 kW. Address WAD, 8.930 mags.	11.715 mags. TPA4, Pontoise, France. Ministère des Postes, Telegraphes et Telephones, 98 bis. Blvd. Haussmann.	25.59 m.
10.620 mags. EHX, Madrid (Pozuelo del Rey), Spain.	11.720 mags. CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.	25.58 m.
10.660 mags. JVN, Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 mags. Mon., Thurs., 1600-1700; daily, 0000-0100.	11.725 mags. PHI, Hilversum, Netherlands. 23.6 kW. (Winter frequency). Philips' Omroep Holland- Indie, Emmasingel 29, Eindhoven. An- nounces in Dutch, Malay, German, French, English, Spanish, Portuguese. Close: Dutch National Anthem.	25.57 m.
10.670 mags. CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.	11.750 mags. GSD, Daventry, England. 20 kW. "D for Daventry." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address, see GSA, 6.050 mags. Daily, 0115-0315; 1215-1600; 1800-2000; 2200-2300.	25.52 m.
PLQ, Bandoeng, N. E. I. 60 kW.	11.770 mags. DJD, Zeesen, Germany. 8 kW. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 mags.	25.47 m.
10.675 mags. WNB, Lawrenceville, N. J. 500 watts. Phones Ber- muda. Address, WNA, 9.170 mags.	11.790 mags. HH2T, Port-au-Prince, Haiti. W1XAL, Boston, Mass. 5 kW.	25.43 m.
10.740 mags. JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.	11.795 mags. DJO, Zeesen, Germany.	25.42 m.
10.770 mags. GBP, Rugby, England. 15 kW. Address GCB, 9.280 mags.	11.810 mags. I2RO, Rome, Italy. Address I2RO, 9.630 mags.	25.39 m.
10.840 mags. KWV, Dixon, Calif. 20 kW. Address: Transpacific Communication Co., Ltd., 140 New Mont- gomery St., San Francisco, Calif.	11.820 mags. GSN, Daventry, Great Britain. Int sig.: Big Ben. s/o, God Save the King. British Brdctg. Corp., London W1.	25.37 m.
10.850 mags. DFL, Nauen, Germany.	11.830 mags. W2XE, New York, N. Y. (Wayne, N. J.) Relays CBS, WABC. 40 kW. s/o Star Spangled Banner. C.B.S., 485 Madison Ave., N. Y. C. W9XAA, Chicago, Ill.	25.34 m.
10.960 mags. JZB, Shinkio (KanJoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Add: Manchukuo Tele- phone & Telegraph Co., Ltd., Shinkio.	11.845 mags., Villejust, France. 120 kW. Under con- struction.	25.31 m.
11.000 mags. 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.	11.855 mags. DJP, Zeesen, Germany.	25.29 m.
ZLT4, Wellington, N. Z.	11.860 mags. 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 mags. Daily, 1100-1200.	25.28 m.
11.140 mags. XGB, Shanghai, China. 15 kW. (Existence doubtful).		
11.370 mags. CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.		
11.495 mags. V1Z3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 mags.		

SHORT WAVE STATIONS BY FREQUENCIES

11.870 megs.	25.25 m.			JZG, 6.330 megs.	
W8XK, Pittsburgh (Saxonburg), Pa.	40 kW.	Relays NBC-KDKA.		RKK, Moscow, USSR.	20 kW.
11.880 megs.	25.24 m.			12.325 megs.	24.33 m.
TPA3, "Radio Coloniale," Pontoise, France.	15 kW.	Address, see 11.715 megs. Daily, 1115-1415; 1500-1800.		DAF, Norden, Germany.	5 kW. Phones ships, mornings. For address see DAF, 8.464 megs.
11.940 megs.	25.11 m.			12.500 megs.	23.99 m.
FTA, Ste. Assise, France.	Works Salgon.	Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.		RKF, Moscow, USSR.	20 kW.
11.950 megs.	25.08 m.			ZSV, Walvis Bay, Union of South Africa.	1 kW.
KKQ, Bolinas, Calif.	Address KEZ, 10.400 megs.			12.660 megs.	23.68 m.
11.955 megs.	25.07 m.			CZA, Drummondville, P. Q.	Works Ships. CMC, Box 1696, Montreal.
ETB, Addis Ababa, Ethiopia.	2 kW.	Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.		12.745 megs.	23.60 m.
11.990 megs.	25.00 m.			DAF, Norden, Germany.	5 kW. Works ships. Address DAF, 8.464 megs.
FZS2, Saigon, French Indo-China.	15 kW.	Phones Paris. Cie Generale de Telegraphie Sans Fil, Boite Postale 238.		12.780 megs.	23.46 m.
12.000 megs.	24.99 m.			GBC, Rugby, England.	5 kW. Works ships. Address GCB, 9.280 megs.
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.		12.795 megs.	23.45 m.
12.020 megs.	24.94 m.			IAC, Caltano, Italy.	14 kW. Works ships. Address IAC, 4.355 megs.
JVK, Nazaki, Japan.	Works Shanghai.	Address JZG, 6.330 megs.		12.830 megs.	23.36 m.
12.030 megs.	24.92 m.			CNR, Rabat, Morocco.	Works Paris. Address, CNR, 8.035 megs.
HBO, Prangins (Geneva), Switzerland.	20 kW.	"Radio Nations." Address: see HBP, 7.797 megs.		HJA3, Barranquilla, Colombia.	
12.035 megs.	24.91 m.			12.840 megs.	23.35 m.
DJK, Nauen, Germany.	7.2 kW.	Address DGK, 6.675 megs.		WOO, Ocean Gate, N. J.	20 kW. Works ships. Address WNA, 9.170 megs.
12.050 megs.	24.88 m.			WOY, Lawrenceville, N. J.	20 kW. Address WNA, 9.170 megs.
PDV, Kootwijk, Netherlands.	60 kW.	Address: PDK, 10.410 megs.		12.862 megs.	23.31 m.
12.130 megs.	24.72 m.			WOEH, Broadcast pickup.	NBC, 30 Rockefeller Plaza, NYC.
DZE, Zeesen, Germany.				12.865 megs.	23.30 m.
12.150 megs.	24.68 m.			IAC, Caltano, Italy.	30 kw.
GBS, Rugby, England.	15 kW.	Phones N. Y. afternoons. Address: GCB, 9.280 megs.		12.930 megs.	23.18 m.
12.160 megs.	24.66 m.			WAW, Hialeah, Fla.	
FQO, Ste. Assise, France.				12.955 megs.	23.14 m.
12.215 megs.	24.55 m.			GMBJ, S. S. Empress of Britain.	Works WOO, IAC, DAF, GBC, CZA, etc.
TYA, Paris, France.	Phones Algeria.	Address: FTA, 11.940 megs.		12.985 megs.	23.09 m.
12.225 megs.	24.53 m.			DFC, Nauen, Germany.	
TFJ, Reykjavik, Iceland.	8.5 kW.	Icelandic State Brcdstg. Serv., Box 547.		13.020 megs.	23.03 m.
12.240 megs.	24.49 m.			JZE, Nazaki, Japan.	10 kW. Works ships. Address, JZG, 6.330 megs.
GBU, Rugby, England.	Phones N. Y.	Address: GCB, 9.280 megs.		13.040 megs.	22.99 m.
12.250 megs.	24.48 m.			SHIPS. For address of these ships refer to 4413, 4415 and 4430 megs. All these ships work with WOO, and DAF.	
TYB, Pontoise, France.	Works JVH and Ships.			DDBR, S. S. Berlin.	
12.260 megs.	24.43 m.			DDCP, S. S. Cap Polonio.	
FTN, Ste. Assise, France.	Address: FTA, 11.940 megs.			DDFF, S. S. Relianca.	
12.270 megs.	24.52 m.			DDFT, S. S. Oceana.	
JVJ, Nazaki, Japan.	Works Hongkong.	Address		DHAO, S. S. Hansa.	
				DHDL, S. S. Cap Arcona.	
				DHEY, S. S. Deutschland.	
				DHJZ, S. S. Hamburg.	
				DHRL, S. S. New York.	
				DOAH, S. S. Bremen.	
				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.	
				IB EJ, S. S. Conte Rosso.	

SHORT WAVE STATIONS BY FREQUENCIES

IBGI, S. S. Conte Verde.	13.745 mgs.	21.81 m.
IBLI, S. S. Conte di Savoia.	CGA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	
ICEJ, S. S. Rex.		
VPD, Suva, Fiji. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva. Daily exc. Sun- day. 0030-0130.	13.780 mgs.	21.75 mgs.
IRJ, Rome, Italy.	13.810 mgs.	21.71 mgs.
CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.	HRM, Tela, Honduras. Tela Railroad Co.	
FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 mgs.	SUZ, Cairo (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and 13.830 mgs. Ad- dress SUV, 10.055 mgs.	
CFU, Rossland, B. C. Consolidated Mining & Smelt- ing Co.	13.827 mgs.	21.68 m.
DOAI, S. S. Europa. 70 w. Works DAF-WOO.	HRF, Tegucigalpa, Honduras. Mr. Ellingson. Cia. Agricola de Ulua, La Lima.	
FNSK, S. S. Normandie. Works WOO, afternoons Address FNSK, 8.810 mgs.	13.870 mgs.	21.61 m.
GBZW, S. S. Berengaria.	WIY, Rocky Point, N. Y. Address: WPE, 13.840 mgs.	
GDLJ, S. S. Homeric.	VJZ, Raboul, New Guinea.	
GFVW, S. S. Majestic.	13.900 mgs.	21.57 m.
GLRZ, S. S. Aquitania.	WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 mgs.	
YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.	13.980 mgs.	21.45 m.
IDU, Asmara, Eritrea. Phones Rome.	LCO, Jeloy, Norway. 1kW. Address LCL, 6.130 mgs.	
WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 mgs.	13.990 mgs.	21.43 m.
FNSM, S. S. Paris.	GBA2, Rugby, England. Address GCB, 9.280 mgs.	
FNTQ, S. S. Ile de France.	14.000 to 14.400 mgs. 20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 mgs.	
WCT, San Juan, Porto Rico. 400 w. Phones WNC. Radio Corp. of P. R.	14.000 mgs.	21.42 m.
G CJ, Rugby, England. Works JVH, Nazaki. Address GCB 9.280 mgs., 0300-0800.	HJ5ABE, Cali, Colombia. Apartado 50. Daily 1900- 2200.	
WEL, Rocky Point, N. Y. Phones London. Address WAD, 8.930 mgs.	14.236 mgs.	21.06 m.
JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC Harbin. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	HB9B, Berne, Switzerland. Swiss Shortwave Associa- tion, 30 Neugengasse, Berne. First Monday every month 1510-1615; 1800-1900.	
GBB2, Rugby, Great Britain. Phones Canada, Egypt. Address GCB, 9.280 mgs.	14.290 mgs.	20.99 m.
JYK, Kemikawa-Cho, Chiba-Ken, Japan. Esperim- ental.	HB9AT, Berne, Switzerland. Address HB9B above. First Monday each month, 1800-1900.	
SPW, Warsaw, Poland. 10 kW. Polskie Radjo, Spolka Akyjna, Warszawa UI, Mazowiecka 5.	14.400 mgs.	20.82 m.
KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10.400 mgs.	HB9J, Berne, Switzerland. Address HB9B above. First Monday each month, 1510-1615.	
	DIP, Zeesen, Germany.	
	14.410 mgs.	20.81 m.
	14.440 mgs.	20.76 m.
	GBW, Rugby, England. 15 kW. Address GCB. 9.280 mgs.	
	14.460 mgs.	20.73 m.
	DZH, Zeesen, Germany.	
	14.470 mgs.	20.72 m.
	WMF, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.	
	14.480 mgs.	20.70 m.
	LSN, Buenos Aires (Hurlingham), Argentina. Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.	
	YNA, Managua, Nicaragua. Phones Hialeah days.	
	14.535 mgs.	20.63 m.
	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 Hialeah days.	WNC, Hialeah, Fla. 400 watts.	Works HJB, HJP.
TGF, Guatemala City, Guat.	Phones Hialeah days.	HPF, HRM, TGF, TIN, TIU, YNA, YVQ	and ZFS daily; other S. Americans irregularly.
TIN, Cartago, Costa Rica.	Phones Hialeah 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		
mgs. Works GCJ, 0200-0600.			
14.685 megs.	20.44 m.		
DFD, Nauen, Germany.			
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.			
14.815 megs.	20.23 m.		
WQL, Rocky Point, N. Y.	40 kw.		
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.			
14.920 megs.	20.10 m.		
KQH, Kahuku, Hawaii.			
14.930 megs.	20.08 m.		
HJB, Bogota, Colombia.	Phones Hialeah, days.		
14.935 megs.	20.07 m.		
PSA, Rio de Janeiro, Brazil.	Phones Buenos Aires		
and Madrid. Address: PSF, 14.690 megs.			
14.960 megs.	20.04 m.		
YSL, El Salvador.			
14.970 megs.	20.03 m.		
LZA, Sofia, Bulgaria.			
14.980 megs.	20.01 m.		
KAY, Manila, P. I.	40 kW. Radio Corp. of the Philip-		
pines, Plaza Moraga, Manila.			
15.000 megs.	19.99 m.		
WWV, Beltsville, Md.	1 kW. National Bureau of		
Standards, Washington, D. C. Wed, 1200-1300.			
15.040 megs.	19.93 m.		
RKI, Moscow, USSR.	20 kW. Works RIM Tashkent.		
WQG, Rocky Point, N. Y. 40 kw.			
15.055 megs.	19.91 m.		
WNC, Hialeah, Fla.	400 watts. Works HJB, HJP.		
HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.			
15.070 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.		
15.110 megs.	19.84 m.		
DJL, Zeesen, Germany.			
15.120 megs.	19.83 m.		
HVJ, Vatican City.	10 kW. Interval sig. clock tick-		
ing for 10 minutes preceding transmission; bells of St. Peter's at 3 o'clock. Announcement: Laudatur Jesus Christus. Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticano, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.			
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, 0900-1200; daily exc. Sun., 0600-0845; Sun., 0630-0845.			
15.180 megs.	19.75 m.		
GSO, Daventry, Great Britain.	Int. sig: Big Ben.		
S/O: God Save The King. Address GSF above.			
15.200 megs.	19.73 m.		
DJB, Zeesen, Germany.	8 kW. 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.			
15.220 megs.	19.70 m.		
PCJ, Hilversum, Netherlands.	Philips' Omroep		
Molander-Indie, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.			
15.245 megs.	19.67 m.		
TPA2, Pontoise, France.	"Radio Coloniale." Address,		
11.715 megs.			
15.250 megs.	19.66 m.		
LRU, Buenos Aires, Argentina.	"Radio El Mundo."		
Relays LRI.			
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.			

SHORT WAVE STATIONS BY FREQUENCIES

15.280 megs.	19.62 m.	Peru, afternoons. Address CEC, 10.670 megs
DJQ, Zeesen, Germany.		
15.295 megs.	19.60 m.	15.880 megs. 18.88 m.
....., Villejust, France. 120 kW. Under construction.		FTK, Ste. Assise, France. Phones Saigon. Address FTA, 13.940 megs.
15.300 megs.	19.60 m.	15.950 megs. 18.80 m.
CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637.		PLG, Bandoeng, Java, N. E. I.
15.310 megs.	19.58 m.	15.970 megs. 18.77 m.
GSP, Daventry, Gr. Britain. "P for Progress."		WKO, Rocky Point, N. Y. Address WPE, 13.840 megs.
15.330 megs.	19.56 m.	16.030 megs. 18.71 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.		KKP, Kahuku, Oahu, Hawaii.
15.340 megs.	19.55 m.	16.050 megs. 18.68 m.
DJR, Zeesen, Germany.		JVC, Nazaki, Japan. Works Hongkong. Address JVI, 13.560 megs.
15.350 megs.	19.53 m.	16.118 megs. 18.60 m.
CT1AA, Lisbon, Portugal. 2kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 megs.		IRY, Rome, Italy. Societe Italiana per I Servizi Radioelettrici, Via Calabria 46-48.
15.355 megs.	19.52 m.	16.150 megs. 18.56 m.
KWU, Dixon, Calif. 20 kW. Address KWV, 10.840 megs		GBX, Rugby, England. Phones Sydney. Address Engineer-in-chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.
15.370 megs.	19.51 m.	16.200 megs. 18.51 m.
HAS3, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address, see HAT2, 7.220 megs.		FZR, Saigon, French Indo-China. Phones Paris. Address FZS2, 11.990 megs.
15.415 megs.	19.45 m.	16.240 megs. 18.49 m.
KWO, Dixon, Calif. 20 kW. Address KWV, 10.840 megs		KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.
15.440 megs.	19.42 m.	16.270 megs. 18.48 m.
PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.		WLK, Lawrenceville, N. J. Works London. Address WMF, 14.470 megs.
15.445 megs.	19.41 m.	16.380 megs. 18.30 m.
WKW, Rocky Point, N. Y. Address WPE, 13.840.		XGN, Shanghai, China. Address XGO, 7.575 megs.
15.475 megs.	19.37 m.	16.460 megs. 18.22 m.
KKL, Bolinas, Calif. Address KEZ, 10.400 megs.		DHEY, S. S. Deutschland. Works WOO, DAF. Address, North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.
15.510 megs.	19.33 m.	16.600 megs. 18.06 m.
JDX, Darien. Works JVu Nazaki.		DOAI, S. S. Europa. Phones WOO, DAF. Address DHEY above.
15.620 megs.	19.19 m.	16.910 megs. 17.73 m.
JVF, Nazaki, Japan. 20 kW. Works Dixon, nights. Address JVI, 13.560 megs.		JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13.560 megs.
15.660 megs.	19.15 m.	17.080 megs. 17.55 m.
JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13.560 megs.		GBC, Rugby, England. 5 kW. Works ships. Address GBX, 16.150 megs.
15.680 megs.	19.12 m.	17.120 megs. 17.51 m.
JZA, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVI. Add.: Manchukuo Telephone & Telegraph Co., Shinkio.		WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WMF, 14.470 megs.
15.750 megs.	19.04 m.	Woy, Lawrenceville, N. J. 20 kW. Address WMF. 14.470 megs.
JIA, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.		17.260 megs. 17.37 m.
15.760 megs.	19.02 m.	DAF, Norden, Germany, 5 kW. Works ships. Address DAF, 8.464 megs.
JYT, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW.		17.310 megs. 17.32 m.
15.860 megs.	18.90 m.	CZA, Drummondville, P. Q. Works ships. Address CGA2, 13.745 megs.
JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 megs.		W3XL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C.
15.865 megs.	18.89 m.	17.480 megs. 17.15 m.
CEC, La Granja (Santiago), Chile. 800 watts. Phones		VWY2, [Kirkee, Poona, India. Phones] London.

SHORT WAVE STATIONS BY FREQUENCIES

Indian Radio & Cable Communication Co., Poona 6.		18.190 mags.	16.48 m.
17.520 mags.	17.11 m.	JVB, Nazaki, Japan. 10 kW. Works PLE, PLV. Address: Kokusal-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	
DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6.675 mags.		18.200 mags.	16.47 m.
17.710 mags.	16.93 m.	GAW, Rugby, England. 15 kW. Works N. Y. Address: GBX, 16.150 mags.	
CJA3, Drummondville, P. Q. Works London. Ad- dress CGA2, 13.745 mags.		18.270 mags.	16.41 m.
17.740 mags.	16.90 m.	ETA, Addis Ababa, Ethiopia. 2 kW. Frank Hammar, Chief Engineer, Box 283.	
HSP, Bangkok, Siam. 20 kW. Post & Telegraph Dept.		18.296 mags.	16.39 m.
17.760 mags.	16.88 m.	YVR, Maracay (Santa Rita), Venezuela. Works Berlin. Estados Unidos de Venezuela, Servicio Radiotelegrafico.	
DJE, Zeesen, Germany. 5 kW. W2XE, Wayne, N. J. CBS, 485 Madison Ave., N. Y. C.		18.304 mags.	16.38 m.
17.765 mags.	16.88 m.	GAS, Rugby, England. Works N. Y. mornings. Address: GBX, 16.150 mags.	
....., Villejust, France. 120 kW. Under con- struction.		18.330 mags.	16.36 m.
17.775 mags.	16.87 m.	FTE, Ste. Assise, France. Societe Francaise Radio- Electrique, 79 Blvd. Haussmann, Paris VIII	
PHI, Hilversum, Netherlands. 23.6 kW. For details see PCJ, 15.220 mags. Mon., Thurs., Fri., 0730-0930; Sat., Sun., 0730-1030.		18.342 mags.	16.35 m.
17.780 mags.	16.86 m.	FZS, Saigon, French Indo-China. Works Paris. Address: FZS2, 11.990 mags.	
W3XAL, Bound Brook, N. J. 14 kW. Relays WJZ- NBC programs. Address W3XL, 17.310 mags. s/o Star Spangled Banner.		18.350 mags.	16.34 m.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Not used at present.		WLA, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.	
W9XAA, Chicago, Ill. Not used at present.		18.400 mags.	16.29 m.
17.790 mags.	16.85 m.	PCK, Kootwijk, Netherlands. Works Java. Address: PCV, 17.830 mags.	
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.		18.444 mags.	16.25 m.
17.830 mags.	16.82 m.	HJY, Bogota, Colombia. Works CEC, LSR, OCI days.	
PCV, Kootwijk Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.		18.450 mags.	16.25 m.
17.850 mags.	16.80 m.	HBH, Prangins, Switzerland. 20 kW. Address: HBJ, 14.535 mags.	
PLF, Bandoeng, Java, N. E. I.		18.600 mags.	16.12 m.
17.900 mags.	16.75 m.	PCM, Kootwijk, Netherlands. Address: PCV, 17.830 mags.	
WLL, Rocky Point, N. Y. 20 kW. Address WPE, 13.840 mags.		18.620 mags.	16.10 m.
17.920 mags.	16.73 m.	GAU, Rugby, England. 15 kW. Address: GBX, 16.150 mags.	
WQF, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 mags.		18.670 mags.	16.06 m.
17.940 mags.	16.71 m.	OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR, WNC days. Compania Peruana de Telefonos, Apartado 986, Lima.	
WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13.840 mags.		18.690 mags.	16.04 m.
18.020 mags.	16.64 m.	XGK, Shanghai, China.	
KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400 mags.		18.830 mags.	15.92 m.
18.115 mags.	16.55 m.	PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon nights, Tokyo mornings. Address: PMC, 18.135 mags.	
LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.		18.860 mags.	15.89 m.
18.135 mags.	16.53 m.	WKM, Rocky Point, N. Y. 40 kW. Address: R. C. A., 66 Broad St., N. Y. City.	
PMC, Bandoeng, Java, N. E. I. 40 kW. Works Neth., 0330-0900. Address: Mr. H. Van der Veen, Engineer in Charge, Post-Telegraaf-en Tele- foondienst, Bedrijf der Radiostations op Java, Bandoeng.		18.890 mags.	15.87 m.
18.180 mags.	16.49 m.	ZSS, Capetown (Klipheuevel), Union of South Africa. 5kW. Works London. Overseas Communica- tion Co., Kodak House, Shortmarket St., Capetown.	
CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.		18.900 mags.	15.86 m.
		WDS, Rocky Point, N. Y. Address WKM, 18.860 mags.	

SHORT WAVE STATIONS BY FREQUENCIES

18.910 megs.	15.86 m.	20.020 megs.	14.98 m.
JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.		DHO, Nauen, Germany. 7.2 kW. Works S. America. Reichsport-zentralamt, Telegraphentechnisches Reichsamt, Schöneberger Strasse 11-15, Berlin-Tempelhof.	
18.920 megs.	15.84 m.	20.040 megs.	14.97 m.
WQE, Rocky Point, N. Y. Address WKM, 18.860 megs.		OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.	
18.950 megs.	15.82 m.	20.100 megs.	14.91 m.
HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 megs.		WQY, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 megs.	
18.958 megs.	15.82 m.	20.260 megs.	14.79 m.
LSR, Buenos Aires, Arg.		WQQ (W2XBJ), Rocky Point, N. Y. 40 kw.	
18.960 megs.	15.81 m.	20.380 megs.	14.71 m.
WQD, Rocky Point, N. Y.		GAA, Rugby, England. 15 kW. Address: GBX, 16.150 megs.	
18.970 megs.	15.80 m.	20.606 megs.	14.55 m.
GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 megs.		PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 megs.	
19.120 megs.	15.68 m.	21.020 megs.	14.27 m.
LSM, Buenos Aires, Argentina. Works Europe.		LSN6, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.480 megs.	
19.200 megs.	15.62 m.	21.060 megs.	14.24 m.
ORG, Brussels (Ruyselede), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 megs.		KWN, Dixon, Calif. 20 kW. Address KWW, 10.840 megs	
19.220 megs.	15.60 m.	WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 megs.	
WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.350 megs.		21.080 megs.	14.22 m.
19.240 megs.	15.58 m.	PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW. Works N. Y. Address: PSF, 14.690 megs.	
DFA, Nauen, Germany.		21.128 megs.	14.19 m.
19.270 megs.	15.57 m.	LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 megs.	
PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW. Address: Cia Radiotelegraphica Brasileira, Caixa Postal 500, Rio de Janeiro.		21.410 megs.	14.00 m.
19.345 megs.	15.50 m.	WKK, Lawrenceville, N. J. Address: WLA, 18.250 megs.	
PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 megs.		21.460 megs.	13.97 m.
19.355 megs.	15.46 m.	W1XAL, Boston, Mass. 5 kW.	
FTM, Ste. Assise, France. Address: FTE, 18.330 megs.		21.470 megs.	13.96 m.
19.480 megs.	15.39 m.	GSH, Daventry, England. "H for Home." Interval sig: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: British Broadcasting Corp., Brcdsting. House, London W.1.	
GAD, Rogby, Gt. Britain. Works Kenya.		21.490 megs.	13.95 m.
19.520 megs.	15.36 m.	....., Villejust, France. 120 kW. Under construction.	
IRW, Rome, Italy. Works Argentina. 20 kW. Address: Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.		21.520 megs.	13.93 m.
19.600 megs.	15.30 m.	W2XE, Wayne, N. J. CBS, 485 Madison Ave. New York City.	
LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.		21.530 megs.	13.93 m.
19.630 megs.	15.27 m.	GSJ, Daventry, England. "J for Justice." See GSH 21.470 megs.	
VGQ, Nairobi, Kenya. Phones GAD.		21.540 megs.	13.92 m.
19.650 megs.	15.26 m.	W8XK, Pittsburg (Saxonburg), Pa. 40 kW. Relays NBC-KDKA.	
LSN5, Buenos Aires, Arg.		22.290 megs.	13.45 m.
19.680 megs.	15.24 m.	GBU, Rugby, England, Works N. Y. Address: GBX, 16.150 megs.	
CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.		26.100 megs.	11.49 m.
19.820 megs.	15.13 m.	GSK, Daventry, England. "K for King." See GSH, 21.470 megs.	
WKN, Lawrenceville, N. J. Address: WLA, 18.350.		29.820 megs.	10.05 m.
19.900 megs.	15.06 m.	IAF, Fiumicino, Italy, 5 kW.	
LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs..			
19.980 megs.	15.01 m.		
KAX, Manila, P. I. Radio Corp of the Philippines, Plaza Moraga, Manila.			

SHORT WAVE STATIONS BY LOCATIONS

ALGERIA	BERMUDA (ZF-)	Ceepeecee	Kenora	Hudson Bay Junct.	Cartagena
Algiers	Hamilton	CJE 2.290	CFD 1.620	VXV 5.540	HJ1ABD 7.280
FVA 8.960	ZFA 5.025	Claydon Bay	CFD 5.660	Isle-a-la-Crosee	HJ1ABE 6.115
ARGENTINA (LOA-LVZ)	ZFB 10.055	CZP 4.505	Leamington	CZJ 1.596	HJ1ABP 9.610
Buenos Aires	St. George	Homalko	CFT 2.284	Pelee Island	Cienega
LA 9.600	ZFD 10.335	VFJ 2.290	CFX 2.284	Lac la Ronge	HJ1ABH 6.300
LRU 15.250	BOLIVIA (CPA-CPZ)	Humpback Bay	Red Lake	CGQ 1.596	Cucuta
LRX 9.580	La Paz	CZL 2.290	CFJ 1.620	CGQ 1.668	HJA7 5.400
LSF 19.600	CP5 6.080	Knight Inlet	CFJ 5.660	Prince Albert	HJ2ABC 5.975
LSG 19.900	CP6 9.120	CJK 1.510	CFJ	VYP 1.596	Ibague
LSH 5.435	CP7 15.300	Margaret Bay	CRCX 6.090	VYP 1.668	HJ4BC 6.450
LSL 9.990	BRAZIL (PPA-PYZ)	CJX 2.290	CYQ 2.318	Regina	HJ4BB 6.110
LSM 19.120	Pernambuco	Namu	VE9EW 7.900	VXU 5.540	HJ4ABL 6.100
LSM 21.128	PRA8 6.040	CFV 2.290	PRINCE EDWARD ISLAND	CANAL ZONE (W)	Medellin
LSN 9.895	Rio de Janeiro	CGO 4.505	Borden	Albrook Field	HJ4BA 11.710
LSN 14.480	PPO 11.670	Prince George	CJM 1.580	WTR 6.385	HJ4ABD 5.760
LSN5 19.650	PPU 19.270	CZO 4.505	QUEBEC	CANARIES	HJ4ABE 5.930
LSN6 21.020	PRF5 9.500	Prince Rupert	Belleuve	El Tablero	HJ4ABP 6.135
LSR 18.958	PSA 21.080	CGP 5.400	CZB 1.620	EHZ 10.370	Quibdo
LSX 10.350	PSD 15.070	CZG 1.712	Crane Island	CHILE (CAA-CEZ)	HJ1ABC 6.010
LSY3 18.115	PSE 14.935	CZG 2.416	Chico	Santiago	HJ1ABJ 6.006
AUSTRALIA (VHA-VMZ)	PSF 14.690	CZG 6.425	Drummondville	CB615 6.150	HJ2ABA 6.170
Adelaide	PSH 10.220	CFU 4.755	CFA2 4.465	CB960 9.600	COSTA RICA (TIA-TIZ)
VIA 1.520	PSK 8.180	CFU 5.705	CFA4 10.520	CEC 5.820	Cartago
Fiskville	BRITISH GUIANA (VP3)	CFU 6.720	CGA 18.180	CEC 7.740	TIN 14.545
VIZ3 11.495	Georgetown	CFU 13.200	CGA2 13.745	CEC 8.710	TIU 14.545
Melbourne	VP3MR 7.080	Sage Creek	CGA4 9.332	CEC 10.670	THR 7.685
VK3LR 9.580	BULGARIA (LZA-LZZ)	VX 5.405	CGA6 6.690	CEC 15.865	Puntarenas
VK3ME 9.490	LZA 14.970	Slate Creek	CGA7 6.880	CEC 10.670	TI8WS 7.550
Sydney	CANADA (CFA-CKZ; CJA-CZZ; VAA-VGZ; VXA-VYZ)	Two Brothers	CGA9 4.348	CEC 15.865	San Jose
VKO 1.520	CANADA	VDV 4.490	CGD 3.340	CEC 19.680	TIEP 6.700
VK2ME 9.585	CFN 4.865	Vancouver	CJA3 17.710	CHINA (XGA-XUZ)	TIGPH 5.820
VKJ 9.750	VE9BK 4.795	CGZ 2.342	CJA6 6.760	Nanking	TIPG 6.410
VKJ 8.095	VE9CS 6.070	VDO 4.436	CZA 2.980	XGOX 6.000	TI8W 6.550
VK3L 10.520	Waterloo Mine	VE9BK 4.795	CZA 4.785	XGOX 9.500	San Ramon
VKJ 7.960	CZV 3.300	VE9CS 6.070	CZA 6.285	Shanghai	TI5HH 5.520
VKJ 7.980	CZV 4.840	MANITOBA	CZA 8.515	XGB 11.140	CUBA (CLA-CMZ; COA-COZ)
AUSTRIA (OAE-OEZ)	ALBERTA	Winnipeg	CZA 12.660	XGK 18.690	Camaguey
Vienna	Calgary	CJO 6.150	CZA 17.310	XGL 7.960	CO9JQ 8.665
OER2 6.072	CGE 3.040	CJR 11.720	VE9DN 6.005	XGN 16.380	Havana
AZORES (CT2-)	CGE 7.550	CJU 3.070	VE9DN 11.780	XGO 7.575	CMB2 5.780
Ponta Delgada	VDC 4.490	CJU 3.452	High Falls	XGW 10.420	CMNP 1.712
CT2AJ 4.000	VE9CA 6.030	VYV 2.396	VYZ 2.212	COLOMBIA (HJA-HKZ)	COCD 6.130
BAHAMAS (ZF-)	Edmonton	NEW BRUNSWICK	Manicouagan	Barranquilla	COCH 9.428
Cat Cay	CFQ 3.040	Fredericton	CFM 1.620	HJA3 7.685	COCO 6.010
ZFO 5.300	CFQ 7.550	VE9AS 6.425	Montmagny	HJA3 8.790	Sancti Spiritus
Nassau	BRITISH COLUMBIA	St. John	CKP 2.284	HJA3 12.830	CO9WR 6.280
ZFS 4.512	Alert Bay	CJW 2.390	Montreal	HJ1AB 6.447	Santiago
BELGIAN CONGO (OP-)	Anyox	CJU 3.452	CGM 3.152	HJ1ABH 6.042	COJK 6.155
Leopoldville	CGE 3.040	VYV 2.396	CGM 3.340	Bogota	DARIEN (J)
OPL 20.040	CGE 7.550	NOVA SCOTIA	VE9DR 6.005	HJA2 5.825	Darien
OPM 10.135	VDC 4.490	Halifax	VYR 1.712	HJB 14.930	JDX 15.510
BELGIUM (ONA-OTZ)	VE9CA 6.030	VNBQ 2.350	Mud Lake	HJN 5.950	JDY 9.920
Brussels	Edmonton	CJW 2.390	CZ5L 4.860	HJP 7.465	JDZ 5.710
ORG 19.200	CFQ 3.040	VE9BJ 6.090	Riviere du Chef	HJY 9.930	DENMARK (OUA-OZZ)
ORK 10.330	CFQ 7.550	ONTARIO	CZY 1.620	HJY 18.444	OXY 6.060
	BRITISH COLUMBIA	Pictou	St. Felecion	HJ3ABD 6.055	OXY 9.490
	Alert Bay	CKB 2.284	CZZ 1.620	HJ3ABF 6.170	DOMINICAN REPUBLIC (HIA-HIZ)
	Anyox	Pictou Island	Tabouret	HJ3ABH 6.012	La Romana
	Bones Bay	CKU 2.284	Verdun	HKE 7.090	HI3C 6.900
	CFW 2.290	ONTARIO	CJZ 2.390	Bucaramanga	
	Campbell River	Goderich	Yamachiche	HJ2ABD 5.980	
	CGT 4.865	6.000	CGY 3.152	Buenaventura	
	CJD 1.510		SASKATCHE- WAN	HJU 9.510	
	CJD 1.540		Cub Lake	Cali	
	Cape Lazo		CFC 1.596	HJ5ABC 6.150	
	VAC 1.510		CFC 1.668	HJ5ABD 6.490	
			Emma Lake	HJ5ABE 14.000	
			CGV 1.596		
			CGV 1.668		

SHORT WAVE STATIONS BY LOCATIONS

Samarang	Panama City	SOUTHERN RHODESIA (ZE-)	Omsk	Halibut Bay	Rose Inlet
YDB2 2.450	HPC 10.290		ROU 14.790	KAJO 2.632	KIAP 3.093
YDE3 2.910	HPF 14.545		Stalinsk	Hidden Inlet	KLE 2.512
YDK2 3.190	HP5B 6.030		RSB 5.375	KIDE 3.265	Saldovia
YDK3 2.910	HP5J 9.590		Sverdlovsk	KLD 2.566	KIKY 3.265
YDK5 2.710		Bulawayo	ROI 5.490	Heonah	KIJS 3.265
YDK6 1.860		ZEB 6.147	RSN 5.440	KIUZ 3.093	Shearwater Bay
Soekaboemi	PARAGUAY (ZPA-ZPZ)	Salisbury 6.000		Hot Springs	KIJW 2.632
YDA4 1.550	Asuncion	SPAIN (EAA-EHZ)		KIIM 2.994	KIJW 2.912
YDI2 2.110	ZP10 6.666		Tachkent	KIIM 3.190	Tanana
Sole	ZP11 3.800	Madrid	RAU 15.104	Hydaburg	KIJJ 2.994
YDB5 1.595		EAQ 9.862	RIU 7.625	KAEB 2.616	KIJJ 3.190
YDE2 4.810		EYH 10.070	RPT 5.995	KAEB 3.265	Tin City
YDL3 3.450			Tiflis		KION 2.616
Sourabaya	PERU (OAA-OCZ)		RIR 5.040	Igloo	Todd
YDB 4.470	Lima		RIR 10.080	KIUU 2.616	KGQ 2.986
YDB7 1.530	OAX4D 5.780	STRAITS SETTLEMENTS (ZH-)		Iron Creek	KIJU 2.986
YDE4 2.415	OAX4G 6.230		UNION OF SOUTH AFRICA (ZSA-ZUZ)	KIOH 2.632	Uganik
YD02 3.430	OCI 18.670	Penang	Capetown	Jack Wade	KIJP 2.986
YD03 3.290	OCJ2 14.845	ZHJ 6.080	ZSR 9.180	KAEF 2.616	Union Bay
YD04 3.170		Singapore	ZSS 18.890	KAEF 2.994	KFF 2.566
YD05 2.930		ZHI 6.060	Johannesburg	Juneau	KICG 3.265
YD06 3.430	PHILIPPINE ISLANDS (K)		ZJT 6.100	KMYA 2.304	View Cove
YD07 2.070	Cebu	SWITZERLAND (HBA-HBZ)	ZJV 5.220	KMYA 4.610	KICI 3.093
YD08 1.980	KZGG 5.825	Berne	ZSV 12.500	WXA 8.050	Wales
YD09 1.880	KZGG 8.940	HBAAT 14.290		Kadiak Island	KIUX 2.616
Tandjonepriok		HBBH 14.236	UNITED STATES (K; N; W)	KIJX 2.632	Washington Bay
YDA 3.040		HBSH 7.005		Kake	KIJK 1.622
YDA 6.040		HBSJ 14.400	ALABAMA	KIBA 3.093	Waterfall
YDA8 1.510			Birmingham	KLC 2.512	KIBZ 3.265
Tegal			WPFM 2.382	Kaslof	KLA 2.566
YDJ3 2.790			Maxwell Field	Kenai	Wrangell
Tjepoe			PD1 6.445	KIUW 2.616	KDK 2.538
YDB1 1.615			Mobile	KIUW 2.986	ARIZONA
YDM2 3.320			NMG 2.670	Ketchikan	Phoenix
Sumatra		TAIWAN (J)	WPGW 2.382	KBAI 2.304	KNGG 1.698
Medan		TaihoKu		KGM 2.512	KGZJ 2.430
YBG 10.430		JIA 15.750	ALASKA	KIAY 3.093	Prescott
YDU2 4.710		JIB 10.530	Akutan	WXH 2.604	KNHG 2.430
YDU3 5.260		JIC 5.890		WXH 6.662	ARKANSAS
YDU4 2.830				Luckyshot	Fort Smith
Padang				KIP 3.100	KNHE 2.406
YDU5 1.850				McGrath	Little Rock
NEW GUINEA				KIO 2.994	KGHZ 2.406
				KIO 3.190	CALIFORNIA
Raboul				KIO 5.138	Alameda
VJZ 13.880				Nakeen	KNBD 5.165
NEW ZEALAND (ZKA-ZMZ)				KHV 2.566	Bakersfield
				KICE 3.265	KACS 2.414
Wellington				Nellie Juan	KGPS 2.414
ZLS 8.900				KGI 2.632	Berkeley
ZLT2 7.390				KIOD 2.632	KSW 1.658
XLT4 11.000				Newport Walter	Bolinas
NICARAGUA (YNA-YNZ)				KIJS 1.622	KEE 7.715
				Pillar Bay	KEJ 9.010
Managua				KDY 2.994	KEL 6.860
YNA 14.480				KNBZ 2.994	KES 9.480
YNLF 5.950				Port Althorp	KET 10.410
YNVA 8.590				KIAW 3.093	KEZ 10.400
NORWAY (LAA-LNZ)				KL 2.512	KKL 15.475
				Port Armstrong	KKQ 11.950
Jeloy				KGXU 1.622	KKW 13.780
LCL 6.130				Port Conclusion	KKZ 13.690
LCO 13.980				KIJI 1.622	KQJ 18.020
LKJ1 9.540				Port Herbert	Compton
PANAMA (HPA-HPZ)				KIJO 1.622	KNFM 2.490
				Port Hobron	Death Valley
Colon				KHZ 2.312	KNLO 3.410
HP5F 6.080				KIMA 2.632	KNLP 3.410
HP5K 6.005				Port San Juan	KNLQ 3.410
				KIJR 2.986	KNLR 3.410
				P. Wakefield	Devils Post Pile
				KGX 2.632	KNKY 2.604
				KIOC 2.632	Dixon
				Red Bluff	KWN 21.060
				KIOG 1.622	KWO 15.415

SHORT WAVE STATIONS BY LOCATIONS

KWU 15.355	Yreka	Macon	Jasper	MAINE		Grand Rapids
KWV 10.840	KBCG 3.385	WQFB 2.414	WPHU 1.634	Portland	WPEB 2.442	WPEB 2.442
KWX 7.610	COLORADO		Kokomo	WPFU 2.422	Grosse Pointe	WRDR 2.414
KWY 7.565	Denver	GUAM	Lafayette	MARYLAND		
EL Centro	KGFX 2.442	Sumay	WQFO 2.442	Baltimore	Highland Park	WMO 2.414
KGJ 2.490	Fresno	KNBG 5.165	Marion County	WVFH 2.414	Huron Island	WWAD 3.410
Eureka	KGZA 2.414	HAWAII	WPHPE 1.634	Beltsville	Jackson	WPHP 2.466
KACI 2.422	Glendale	Honolulu	WPGP 2.442	WWV 5.000	Lansing	WPLD 2.442
KGZA 2.414	KNBE 5.165	KPQP 1.712	Richmond	WWV 10.000	Manitow Island	WWAJ 3.410
Lodi	WQFA 2.466	Kahuku	WPDH 2.442	WWV 15.000	Marquette	WWM 3.410
KGNY 2.414	New Haven	KEQ 6.733	WQFE 1.634	MASSA- CHUSETTS		
Los Angeles	WQFA 2.466	KIO 11.680	South Bend	Arlington	WPFC 2.442	WPFC 2.442
KGPL 1.712	New London	KKH 7.520	WPGN 2.490	WPEP 1.712	Passage Island	WWAL 3.410
KIIV 2.726	NOU 2.670	KKP 16.030	IOWA			
KIKL 6.615	WAKB 2.466	KQH 14.920	Atlantic	Boston	Poe Reef	WRJ 3.410
Mt. Shasta	DISTRICT OF COLUMBIA		KACD 1.682	WEPJ 1.712	WRJ 3.410	Port Huron
KBCC 3.200	Washington	Boise	Cedar Rapids	WEY 1.630	WPB 2.466	Rock of Ages
North Fork	WPDW 2.422	KBCC Q 3.300	KGZZ 2.466	WPGV 1.712	WVAM 3.410	Saginaw
KBCD 3.445	FLORIDA		Davenport	WIXAL 6.040	WVW 2.442	Sault Ste. Marie
KBCE 3.445	Oakland	Illinois	KGPN 2.466	WIXAL 11.790	NOR 2.670	NOR 2.698
KBCF 3.445	Palo Alto	Chicago	KGHO 2.466	WIXAL 15.250	NOR 2.698	Selbridge Field
KBCH 3.385	KGHH 1.674	WPDB 1.712	Des Moines	WIXAL 21.460	WV1 6.425	Stannard Rock
Clearwater	KGHS 1.712	WPDC 1.712	KGZG 2.682	WIXH 2.110	WWH 3.410	
Pasadena	WGKX 1.712	WDD 1.712	Fairfield	WPEJ 1.712		MIDWAY
Point Bonita	WQFK 2.466	WQDD 1.712	KACC 1.682	Everett	KNBH 5.165	
NMC 2.670	Dinsmore	WQPC 1.610	KACG 1.682	WAKF 1.712	MINNESOTA	
KNFJ 1.712	WAMB 2.726	WQXA 6.080	KACD 1.682	Fairhaven	Duluth	KNFE 2.382
Sacramento	Dry Tortugas	W9XAA 11.830	Sioux City	WAKF 1.712	Minneapolis	KNFE 2.382
KNFG 2.422	WST 3.410	W9XAA 17.780	KGPK 2.466	Fitchburg	KGFB 2.430	Minneapolis
San Bernardino	Duval City	W9XBS 6.425	Storm Lake	WPFA 1.712	Redwood Falls	KGFB 2.430
KNFY 1.712	WAKJ 1.698	W9XFX 6.100	KNFO 1.682	WPHB 2.466	KNHD 1.658	Redwood Falls
San Diego	Ft. Lauderdale	W9XFF 6.425	Waterloo	WPFH 1.666	St. Paul	KNHD 1.658
KBCJ 3.155	NMV 2.670	DeQuoin	KNFN 1.682	Frammingham	WPD5 2.430	St. Paul
KGPD 2.466	Gainesville	WQPD 1.610	KANSAS			
San Gabriel	WQFC 2.466	Effingham	Atchison	Gloucester		
Dam	Hialeah	WQPF 1.610	KACA 2.422	NOG 2.670		
KIIW 2.726	WND 4.098	Highland Park	Chanute	Marshfield		
San Jose	WAW 12.930	WQFF 1.610	KGZF 2.450	WOU 2.506		
KGPM 2.466	WNC 15.055	Oak Park	Coffeyville	Medford		
San Pedro	Jacksonville	WQFL 1.712	KGZP 2.450	WPHG 1.712		
NOJ 2.670	Key West	Ottawa	Dodge City	WPIX 9.570		
San Rafael	WWZ 3.410	WQFZ 2.458	KNGH 2.474	Newton		
KLH 2.506	Lakeland	Pontiac	Garden City	WPFA 1.712		
Santa Ana	WPKT 2.442	Rockford	KNFH 2.474	Northampton		
KGHX 2.490	Miami	Sterling	Hutchinson	WPEW 1.666		
Santa Barbara	NOM 2.670	WQPP 1.610	KGHN 2.450	Somerville		
KBKA 3.385	WKDL 3.070	Springfield	Manhattan	WPEH 1.712		
KBCE 3.385	WKDL 5.405	WQPS 1.610	W9XAK 2.050	W. Bridgewater		
KGZO 2.414	WPFZ 2.442	Waukegan	Salina	WPEL 1.666		
Santa Cruz	W4XB 6.040	WQFX 1.712	KNGV 2.422	Winthrop		
KGZT 1.674	Opa Locka	Wheeling	Topeka	NMF 2.670		
Sequoia Park	WMEV 6.615	WMEQ 6.615	KGZC 2.422	Woods Hole		
KNKG 3.410	Orlando	Wilmette	Wichita	NOP 2.670		
Tracy	WPHM 2.442	NMP 2.670	KGZP 2.450	Worcester		
KACO 2.414	Palin Beach	NMP 2.698	KENTUCKY			
Tujunga Dam	WQFX 2.442	INDIANA	Lexington	WPGX 2.466		
KIIX 2.726	St. Petersburg	Columbia City	WPET 1.706	Cheboygan		
Tulare	NOF 2.670	WQFW 1.634	Louisville	Range		
WPDA 2.414	WMEU 6.615	Culver	WPDE 2.442	Detroit		
Vallejo	Tampa	WPHS 1.634	LOUISIANA			
KGPC 2.422	WPHN 2.466	Fort Wayne	Baton Rouge	WCK 2.414		
Whittier	WNED 8.220	WPDZ 2.490	WPEQ 1.570	WKDT 1.630		
KGHY 1.71	GEORGIA		New Orleans	WPDY 2.414		
Wilmington	Atlanta	Frankfort	WPEK 2.430	WPN 3.410		
KOU 2.566	Augusta	WAKK 2.490	Shreveport	WWR 3.410		
Yosemite	WQFV 2.414	Huntington	Shreveport	E. Lansing		
KNKS 2.604	Columbus	WAKA 2.490	SGPY 1.574	WRDS 1.642		
KNKU 2.604	WPGM 2.414	Indianapolis	KGZL 1.712	WPDF 2.442		
KNKX 2.604	La Grange	WMDZ 2.442	KNGP 2.430	Fourteen Foot		
	Shoals	1.634		WWE 3.410		

SHORT WAVE STATIONS BY LOCATIONS

<p>Reno KGHM 2.474</p> <p>NEW HAMPSHIRE</p> <p>Nashua WPHB 2.422</p> <p>NEW JERSEY</p> <p>Bloomfield WAKH 2.430</p> <p>Bound Brook W3XAL 6.100 W3XAL 17.780 W3XL 6.425 W3XL 17.310</p> <p>Cape May NOV 2.670</p> <p>Freehold WAKC 2.366</p> <p>Hackensack WPFK 2.430</p> <p>Lawrenceville WCN 5.078 WKA 21.060 WKF 4.253 WKF 19.220 WKK 21.410 WKN 19.820 WLA 18.350 WLK 16.270 WMA 13.390 WMF 14.470 WMN 14.590 WNA 9.170 WNB 10.675 WOB 6.755 WOB 5.850 WOF 9.750 WOK 10.550 WON 9.870 WOY 4.178 WOY 4.753 WOY 8.560 WOY 12.840 WOY 17.120</p> <p>New Brunswick WKJ 9.460</p> <p>Ocean Gate WOG 4.253 WOG 8.560 WOO 4.178 WOO 4.753 WOO 8.560 WOO 12.840 WOO 17.120</p> <p>Passaic WPDJ 2.414</p> <p>Tuckerton WCG 10.380</p> <p>Wayne W2XE 6.120 W2XE 11.830 W2XE 15.270 W2XE 17.760 W2XE 21.520</p> <p>NEW MEXICO</p> <p>Albuquerque KGZX 2.414</p> <p>Clovis KNFA 2.414</p> <p>Santa Fe KGPF 2.414</p>	<p>NEW YORK</p> <p>Albany WPGH 2.414</p> <p>Auburn WPDN 2.382</p> <p>Binghamton WPGL 2.442</p> <p>Bronx WPEF 2.450</p> <p>Brooklyn WPEE 2.450</p> <p>Buffalo NOB 2.670 NOB 2.698 WMJ 2.422</p> <p>Huntington WPGO 2.490</p> <p>Jackson Heights WNEK 6.615</p> <p>Mineola WPGS 2.490</p> <p>Mitchell Field WQ9 6.385</p> <p>New York WOZ 3.423 WPEG 2.450</p> <p>Niagara Falls WNFP 2.422</p> <p>Oneonta WQFJ 2.414</p> <p>Rochester WPDH 2.422</p> <p>Rockaway Point NMY 2.670</p> <p>Rocky Point WAD 8.930 WDB 6.718 WDG 4.535 WDN 4.550 WDS 18.900 WEA 10.610 WEB 6.935 WEC 8.930 WEL 8.950 WEL 13.435 WEM 7.400 WES 9.448 WET 9.470 WEZ 8.075 WIR 4.276 WIY 13.870 WJN 7.370 WKC 10.465 WKL 8.940 WKM 18.860 WKO 15.970 WKP 6.950 WKU 14.830 WKW 15.445 WLL 17.900 WQB 17.940 WQD 18.960 WQE 18.920 WQF 17.920 WQG 15.040 WQL 14.815 WQN 5.265 WQN 5.505 WQN 5.825 WQN 6.725 WQP 13.900 WQQ 20.260 WQR 16.015 WQV 14.800 WQY 20.100</p> <p>Schenectady W2XAD 15.330 W2XAF 9.530</p>	<p>S. Schenectady WPGC 1.658</p> <p>St. George WOX 2.590</p> <p>Syracuse WAES 5.612 WPEA 2.382</p> <p>Utica WPGJ 2.414</p> <p>Yonkers WPFY 2.442</p> <p>NORTH CAROLINA</p> <p>Asheville WFFS 2.458 WFFS 2.474</p> <p>Charlotte WPDV 2.458</p> <p>NORTH DAKOTA</p> <p>Fargo KNHM 2.442</p> <p>OHIO</p> <p>Akron WPDO 2.458</p> <p>Cambridge WPHT 1.596</p> <p>Cincinnati WKDU 1.706 W8XAL 6.060</p> <p>Cleveland NMD 2.670 NMD 2.698 WRB 2.458</p> <p>Columbus WPD1 2.430 WPGQ 1.596</p> <p>Dayton WPDH 2.430</p> <p>Findlay WPGG 1.596</p> <p>Lancaster WQFO 2.430</p> <p>Lorain WMES 2.550</p> <p>Mansfield WQFY 2.474</p> <p>Massillon WPHC 1.596</p> <p>Patterson Field WYV 6.645</p> <p>Portsmouth WPGI 2.430</p> <p>Sandusky WAKI 2.474</p> <p>Steubenville WPHD 2.458</p> <p>Suffield WMEP 2.930 WMEP 6.615</p> <p>Toledo WRDQ 2.474</p> <p>Wilmington WPHK 1.596</p> <p>Wright Field PE2 6.445</p> <p>Youngstown WPDG 2.458</p> <p>Zanesville WPHO 2.430</p> <p>OKLAHOMA</p> <p>Ada KNHC 2.450</p>	<p>Altus KACL 2.450</p> <p>Chickasha KACF 2.450</p> <p>Duncan KNGK 2.450</p> <p>Lawton KGHP 2.450</p> <p>Muskogee KNGT 2.450</p> <p>Oklahoma City KGPH 2.450</p> <p>Ponca City KACP 2.450</p> <p>Seminole KACR 2.450</p> <p>Tulsa KGPO 2.450</p> <p>OREGON</p> <p>Grants Pass KBAM 3.445</p> <p>Hood River KIJY 2.728</p> <p>Klamath Falls KGZH 2.442</p> <p>Portland KBAA 3.385 KGPP 2.442</p> <p>Salem KGZR 2.442</p> <p>PENN-SYLVANIA</p> <p>Harrisburg WPSJ 1.674</p> <p>Monessen WQFF 2.482</p> <p>New Castle WPGT 2.482</p> <p>Oil City PHI2 2.482</p> <p>Philadelphia WPDH 2.474</p> <p>WVHJ W3XAU 3.110 W3XAU 5.060 W3XAU 9.590</p> <p>Pittsburgh WPDU 1.712</p> <p>W8XK W8XK 6.140 W8XK 9.570 W8XK 11.870 W8XK 15.210 W8XK 17.780 W8XK 21.540</p> <p>Reading WPF2 2.442</p> <p>Swarthmore WPFQ 2.474</p> <p>Wilkes-Barre WQFM 2.442</p> <p>PUERTO RICO</p> <p>San Juan WCT 13.410 WMDU 3.070 WMDU 5.405</p> <p>RHODE ISLAND</p> <p>Cranston WPGK 2.466</p> <p>E. Providence WPEI 1.712</p> <p>Pawtucket WPFV 2.466</p>	<p>Providence WPGF 1.712</p> <p>Woonsocket WPEM 2.466</p> <p>SOUTH CAROLINA</p> <p>Charleston WCPD 2.430</p> <p>SOUTH DAKOTA</p> <p>Rapid City KNGM 2.450</p> <p>TENNESSEE</p> <p>Elizabethton WPHY 2.474</p> <p>Johnson City WPGZ 2.474</p> <p>Knoxville WPF0 2.474</p> <p>Memphis WPEC 2.466</p> <p>TEXAS</p> <p>Austin KGHU 2.442</p> <p>Beaumont KGPJ 1.712</p> <p>Big Spring KACM 2.458</p> <p>Brownsville KGHT 2.382</p> <p>Brownwood KNGW 2.458</p> <p>Cleburne KNGE 1.712</p> <p>Corpus Christi KGHV 2.382</p> <p>Dallas KVP 1.712</p> <p>Denton KNHF 1.712</p> <p>El Paso KGZM 2.414</p> <p>Fort Worth KGRP 1.712</p> <p>Galveston KNGL 1.712</p> <p>NOY 2.670</p> <p>Houston KGZB 1.712</p> <p>Lubbock KGZW 2.458</p> <p>San Antonio KGUD 5.600</p> <p>KGZE 2.482</p> <p>Waco KGZQ 1.712</p> <p>Wichita Falls KGZI 2.458</p> <p>UTAH</p> <p>Salt Lake City KGPW 2.406</p> <p>VIRGINIA</p> <p>Bolling Field IS3 5.015</p> <p>Cape Henry NMN 2.670</p> <p>Langley Field FG7 6.645</p>	<p>Lynchburg WQFH 2.450</p> <p>Petersburg WQFI 2.450</p> <p>Richmond WPHF 2.450</p> <p>Roanoke WQFG 2.450</p> <p>WAKE ISLAND</p> <p>KNBI 5.165</p> <p>WASHINGTON</p> <p>Aberdeen KGZV 2.414</p> <p>Bear River Camp KNFY 2.490</p> <p>Bellingham KACK 2.414</p> <p>KNFK 2.490</p> <p>Cataract Creek KNLT 3.387</p> <p>Centralia KGHW 2.414</p> <p>Chinook Pass KGHQ 2.490</p> <p>Edmonds KOW 2.522</p> <p>Ellensburg KNFX 2.490</p> <p>Ephrata KNGZ 2.490</p> <p>Everett KNFP 2.414</p> <p>Ft. Lewis YT2 4.200</p> <p>Fremont KNLV 3.387</p> <p>Grays Harbor NNW 2.670</p> <p>Hells Crossing Camp KNFZ 2.490</p> <p>Kalaloch KACQ 2.490</p> <p>Longmire KGYA 3.387</p> <p>KGVB 3.387</p> <p>Mt. Olympus KNDI 3.387</p> <p>KNDK 3.387</p> <p>KNDL 3.387</p> <p>KNDM 3.387</p> <p>KNDP 3.387</p> <p>KNDS 3.387</p> <p>KNDT 3.387</p> <p>Mt. Rainier KGYC 3.387</p> <p>KGVD 3.387</p> <p>KGYF 3.387</p> <p>KNLS 3.387</p> <p>KNLX 3.387</p> <p>KNLU 3.387</p> <p>Mt. Vernon KNFI 2.414</p> <p>North Bend KBAL 3.200</p> <p>Olympia KACE 2.414</p> <p>KBAT 3.300</p> <p>KNFG 2.490</p> <p>Pt. Angeles KNFC 2.490</p> <p>Port Townsend NOZ 2.670</p> <p>Quilcene KBAU 3.300</p>
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SHORT WAVE STATIONS BY LOCATIONS

Satus Pass Camp		Spokane KBAA 3.410 KGHS 2.414 KNGR 2.490	WEST VIRGINIA Charleston WPHI 2.490 Clarksburg WFPF 2.490 Fairmont WPHJ 2.490 Parkersburg WPHQ 2.490	Oshkosh WAKE 2.382	HVJ 15.120	VIRGIN ISLANDS (W) St. Thomas WTDV 4.295 St. Croix WTDW 4.295 St. John WTDX 4.295
KNGA 2.490 Seattle	Tacoma KGZN 2.414	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	VENEZUELA (YVA-YWZ) Barquisimeto YV8RB 5.895 Caracas YV2RC 5.800 YV3RC 6.165 YV4RC 6.375 YV9RC 6.400 Maracaibo YV5RMO 5.850 YV7RMO 5.818 Maracay YVQ 6.672 YVQ 13.337 YVR 9.168	
KBAP 3.200 KGHD 2.490 KGPA 2.414 KGYI 3.387 WVD 2.604 WVD 5.995 WVD 6.618 WVD 8.620 WTXX 3.493 Shuksan Camp KNFL 2.490 Skykomish KNFU 2.490 Snoqualmie Pass KGHE 2.490	Vancouver KNGC 2.490 Walla Walla KNGD 2.490 Wenatchee KACJ 2.414 KNGQ 2.490 White River WGVE 3.387 Yakima KNGB 2.490 KNGU 2.414					

SHORT WAVE STATIONS BY CALLS

CB615 6.150 CB960 9.600 CEC 5.820 CEC 7.740 CEC 8.750 CEC 10.670 CEC 15.865 CEC 19.680 CFA2 4.465 CFA4 10.520 CFC 1.596 CFC 1.668 CFD 1.620 CFD 5.660 CFJ 1.620 CFJ 5.660 CFL 1.620 CFM 1.620 CFN 5.705 CFQ 3.500 CFQ 7.550 CFT 2.284 CFU 4.755 CFU 5.705 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 6.990 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 5.400 CGQ 1.596 CGQ 1.668 CGT 4.865 CGV 1.596 CGV 1.668 CGY 3.152 CGZ 2.342 CNHX 6.110 CJA3 17.710 CJA6 6.760	CJD 1.510 CJD 1.540 CJE 2.290 CJK 1.510 CJM 1.580 CJRO 5.150 CJRX 11.720 CJU 3.070 CJU 3.452 CJW 2.390 CJX 2.290 CJZ 2.390 CKB 2.284 CKO 2.284 CKP 2.284 CKS 3.040 CKS 7.550 CKU 2.284 CMB2 5.780 CMPN 1.712 CNR 8.035 CNR 12.830 COCD 6.130 COCH 9.428 COCO 6.010 COKG 6.155 CO9JQ 8.665 CO9WR 6.280 CP5 6.080 CP6 9.120 CP7 15.300 CQN 9.700 CRCX 6.090 CR6AA 1.715 CSL 6.150 CSW 9.380 CT1AA 9.650 CT1AA 15.350 CT1CT 3.750 CT1G0 6.132 CT2AJ 4.000 CWD 5.830 CWE 6.610 CWF 8.455 CWG 11.370 CWH 13.140 CXY 2.318 CZA 2.980 CZA 4.785 CZA 6.285 CZA 8.515 CZA 12.660	CZA 1.7310 CZB 1.620 CZG 1.712 CZG 2.416 CZG 6.425 CZJ 1.596 CZJ 1.668 CZL 2.290 CZO 4.505 CZQ 4.505 CZQ 5.400 CZV 3.300 CZV 4.848 CZY 1.620 CZL 1.620 CZ5L 4.860 DAF 4.320 DAF 4.413 DAF 12.745 DAF 17.260 DDBR 4.413 DDBR 13.040 DDCP 4.413 DDCP 8.830 DDOH 13.040 DDOF 4.413 DDFF 8.830 DDFF 13.040 DDFT 4.413 DDFT 8.830 DDFT 13.040 DFA 19.240 DFB 17.520 DFC 12.985 DFD 19.665 DFE 9.810 DFL 10.850 DGG 6.675 DGU 9.610 DHA0 4.413 DHA0 8.830 DHA0 13.040 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 DHRLL 13.040 DHTY 4.413 DHTY 8.830 DHTY 13.040 DHTY 16.765 DIP 14.410 DJA 9.560 DJB 15.200 DJC 6.020 DJD 11.770 DJE 17.760 DJG 4.580 DJK 12.035 DJL 15.110 DJM 6.080 DJN 9.540 DJO 11.795 DJP 11.855 DJQ 15.280 DJR 15.340 DOAH 4.413 DOAH 8.830 DOAH 13.040 DOAI 4.413 DOAI 8.830 DOAI 13.210 DOAI 16.600 DZA 9.675 DZB 10.042 DZC 10.285 DZE 12.130 DZG 15.360 DZH 14.460 EAQ 9.862 EHY 10.070 EHZ 10.370 ETA 18.270 ETB 11.955 ETD 7.620 ETG 5.880 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 FNTQ 4.413 FNTQ 8.830 FNTQ 13.305 FQO 12.160 FTA 11.940 FTE 18.330 FTK 15.880 FTM 19.355 FTV 8.960 FZR 16.200 FZS 18.342 FZS2 11.990 GAA 20.380 GAD 19.480 GAQ 18.970 GAS 18.304 GAU 18.620 GAW 18.200 GBA2 13.990 GBB2 13.595 GBC 4.430 GBC 4.975 GBC 8.680 GBC 12.780 GBC 17.080 GBF 10.770 GBS 12.150 GBU 12.240 GBU 22.290 GBU 14.440 HBO 12.530 HBSA 14.290 HBSB 14.236 HBSH 7.005 HBSJ 14.400 HCBJ 8.900 HCK 5.885 HCK 5.895 HC2ET 4.600 HC2RS 7.850 HC2JBL 6.650 HC2F 6.065 HMZR 5.550 HMZS 5.915 HNSW 9.617 HIG 6.280 HIH 6.814 HIL 2.510 HIH 10.040 HIL 6.500	GFWB 4.413 GFWV 8.830 GFWW 13.320 GLRZ 4.415 GLRZ 8.830 GLRZ 13.320 GLRZ 12.955 GMBJ 4.413 GSA 6.050 GSB 9.510 GSC 5.980 GSD 11.750 GSE 11.860 GSF 15.140 GSG 17.790 GSH 21.470 GSI 15.260 GSJ 21.530 GSK 26.100 GSL 6.110 GSN 11.820 GSO 15.180 GSP 15.310 HAS3 13.710 HAT 5.400 HAT2 7.220 HAT3 8.565 HAT4 9.125 HBF 18.950 HBH 18.450 HBJ 14.535 HBL 5.995 HBO 7.797 HBSA 12.030 HBSB 14.290 HBSH 14.236 HBSJ 7.005 HCBJ 8.900 HCK 5.885 HCK 5.895 HC2ET 4.600 HC2RS 7.850 HC2JBL 6.650 HCF 6.065 HMZR 5.550 HMZS 5.915 HNSW 9.617 HIG 6.280 HIH 6.814 HIL 2.510 HIH 10.040 HIL 6.500	HIT 6.630 HIX 9.580 HIZ 6.315 H1A 6.185 H1J 5.865 H1S 6.420 H1C 6.900 H1U 6.380 HIAD 6.500 HIAV 6.480 H1S5N 6.150 H19B 6.045 HJA2 5.825 HJA3 7.685 HJA3 8.790 HJA3 12.830 HJA7 5.400 HJA7 14.930 HJN 5.950 HJY 7.465 HJU 9.510 HJV 9.930 HJA 18.444 HJ1ABB 6.447 HJ1ABC 6.010 HJ1AB 7.280 HJ1AB 6.115 HJ1ABG 6.842 HJ1ABH 6.300 HJ1ABJ 9.006 HJ1ABP 9.610 HJ2ABA 6.170 HJ2AB 5.975 HJ2ABD 5.980 HJ3AB 6.055 HJ3ABF 6.170 HJ3ABA 6.012 HJ3ABA 11.710 HJ4AB 6.110 HJ4AB 6.450 HJ4ABD 5.760 HJ4ABE 5.930 HJ4AB 6.100 HJ4ABP 6.135 HJ5AB 6.150 HJ5AB 6.490 HJ5ABE 14.000 HKE 7.090 HPC 10.290 HPF 14.545 HPSB 6.030 HPSF 6.080
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SHORT WAVE STATIONS BY CALLS

HP5J	9.590	JZG	6.330	KGM	2.512	KIFM	4.124	KNBZ	2.994	KOU	2.566	PDV	12.050
HP5K	6.005	KACA	2.422	KGOZ	2.466	KIFT	2.150	KNDI	3.387	KOW	2.522	PD1	6.445
HRF	13.827	KACC	1.682	KGPA	2.414	KIGW	2.102	KNDK	3.387	KQH	14.920	PE2	6.445
HRD	6.235	KACD	1.682	KGPB	2.430	KIHH	2.190	KNDL	3.387	KQJ	18.020	PH1	11.725
HRM	13.810	KACE	2.414	KGPC	1.706	KIJJ	2.994	KNDM	3.387	KSW	1.658	PHI	17.775
HRN	5.875	KACF	2.450	KGPD	2.466	KIJJ	3.190	KNDP	3.387	KTO	16.240	PLE	18.830
HRP1	6.356	KACI	2.422	KGPE	2.422	KIJK	2.994	KNDS	3.387	KTP	8.120	PLF	17.850
HSJ	8.020	KACJ	2.414	KGPF	2.414	KIJK	3.190	KNDT	3.387	KVP	1.712	PLG	15.950
HSP	7.968	KACK	2.414	KGPG	2.422	KIIL	2.994	KNEC	1.646	KWN	21.060	PLP	11.000
HSP	9.396	KACL	2.450	KGPH	2.450	KIIL	3.190	KNEC	2.090	KWO	15.415	PLQ	10.670
HSP	17.740	KACM	2.458	KGPI	2.466	KIIM	2.994	KNEC	2.190	KWU	15.355	PLV	9.415
HS8PJ	10.165	KACN	2.414	KGPJ	1.712	KIIM	3.190	KNEC	2.830	KWV	10.840	PMA	19.345
HVJ	5.970	KACO	2.414	KGPK	2.466	KIIN	2.994	KNEC	1.606	KWX	7.610	PMB	20.606
HVJ	15.120	KACP	2.450	KGPL	1.712	KIIN	3.190	KNEC	2.020	KWY	7.565	PMC	18.135
IAC	4.355	KACR	2.450	KGPM	2.466	KIIO	2.994	KNEC	2.102	KZGF	5.765	PMN	10.260
IAC	6.650	KACS	2.414	KGPN	2.466	KIIO	3.190	KNF	2.830	KZGF	5.140	PMY	5.140
IAC	8.515	KAEB	2.616	KGPO	2.450	KIIO	5.138	KNFA	2.414	KZGG	5.825	PN1	8.775
IAC	12.795	KAEB	3.265	KGPP	2.442	KIIP	3.100	KNFB	2.458	KZGG	8.940	PPQ	11.670
IAC	12.865	KAED	2.616	KGPQ	1.712	KIIP	2.150	KNFC	2.490	KZGH	5.795	PPU	19.270
IAF	5.415	KAED	3.093	KGPR	1.712	KIIV	2.726	KNFE	2.382	KZGH	9.490	PRADO	6.620
IAF	29.820	KAEF	2.616	KGPS	2.414	KIIX	2.726	KNFG	2.490	LCL	6.130	PRADO	15.440
IBEJ	4.280	KAEG	2.994	KGPW	2.406	KIYY	2.726	KNFH	2.474	LCO	13.980	PRA8	6.040
IBEJ	13.050	KAJQ	2.632	KGPK	2.442	KIJB	2.994	KNFI	2.414	LKJ1	9.540	PRF5	9.500
IBGI	4.280	KAX	19.980	KGQY	1.574	KIJI	1.622	KNFJ	1.712	LQA	9.600	PSA	21.080
IBGI	13.050	KAY	14.980	KGPZ	2.450	KIJK	1.622	KNFK	2.490	LRO	15.250	PSE	15.070
IBLI	4.280	KAZ	9.990	KGQL	2.986	KIJO	1.622	KNFL	2.490	LRX	9.580	PSD	14.935
IBLI	13.050	KBAA	3.385	KGUD	5.600	KIJP	2.986	KNFM	2.490	LSF	19.600	PSH	14.690
ICEJ	4.280	KBAI	2.304	KGX	2.632	KIJR	2.986	KNFN	1.682	LSG	19.900	PSF	10.220
ICEJ	13.050	KBAL	3.200	KGXU	1.622	KIJS	1.622	KNFO	1.682	LSH	5.435	PSK	8.180
IDU	13.380	KBAM	3.445	KGXW	1.606	KIJU	2.986	KNFP	2.414	LSL	9.990	RAP	15.104
IRF	8.070	KBAA	3.410	KGYA	3.387	KIJV	1.622	KNFR	2.490	LSL	10.250	RFM	7.260
IRF	14.740	KBAP	3.200	KGYB	3.387	KIJW	2.632	KNFS	2.490	LSM	19.120	RIM	7.626
IRJ	13.105	KBAT	3.300	KGYC	3.387	KIJW	2.912	KNFU	2.490	LSM	21.128	RIO	10.160
IRM	9.830	KBAU	3.300	KGYD	3.387	KIJX	2.632	KNFX	2.490	LSN	9.895	RIR	5.040
IRY	19.520	KBCA	3.385	KGYE	3.387	KIJJ	2.728	KNFY	2.490	LSN	14.480	RIR	10.080
IRW	16.118	KBCB	3.385	KGYF	3.387	KIJZ	2.728	KNFZ	2.490	LSN5	19.650	RKF	4.875
IS3	5.015	KBCD	3.200	KGYG	3.387	KIKL	6.615	KNGA	2.490	LSN6	21.020	RKF	6.870
I2R0	5.550	KBCD	3.445	KGYH	3.387	KIKN	3.093	KNGB	2.490	LSR	18.958	RKF	6.880
I2R0	5.725	KBCE	3.445	KGYI	3.387	KIKY	3.265	KNGC	2.490	LSX	10.350	RKF	6.900
I2R0	6.085	KBCF	3.445	KGZA	2.414	KILU	2.150	KNGD	2.490	LSY3	18.115	RKF	9.750
I2R0	6.980	KBCG	3.385	KGZB	1.712	KILY	2.994	KNGE	1.712	LZA	14.970	RKF	12.500
I2R0	9.635	KBCH	3.385	KGZC	2.422	KIMA	2.632	KNGF	2.422	NMC	2.670	RKI	7.520
I2R0	11.810	KBCJ	3.155	KGZD	2.490	KINT	2.726	KNGG	1.698	NMD	2.670	RKI	15.040
JDJ	15.510	KBCQ	3.300	KGZE	2.482	KINT	3.190	KNGH	2.474	NMD	2.698	RKI	15.090
JDY	9.920	KBK	6.718	KGZF	2.450	KIO	11.680	KNJ	2.490	NMF	2.670	RKK	6.135
JDZ	5.710	KDH	2.538	KGZG	2.466	KIOC	2.632	KNKG	2.450	NMG	2.670	RKK	12.270
JIA	15.750	KDK	2.538	KGZH	2.442	KIOD	2.632	KNGL	1.712	NMN	2.670	RNE	12.000
JIB	10.530	KDV	2.538	KGZI	2.458	KIOG	1.622	KNGM	2.450	NMP	2.670	ROI	5.490
JIC	5.890	KDX	2.986	KGZJ	2.430	KIOH	2.632	KNGN	2.490	NMP	2.698	ROU	14.790
JVA	18.910	KDY	2.994	KGZL	1.712	KIOI	2.632	KNGQ	2.450	NMV	2.670	RPK	7.225
JVB	18.190	KEE	7.715	KGZM	2.414	KIOM	3.093	KNGP	2.430	NMW	2.670	RPT	5.995
JVC	16.050	KEJ	9.010	KGZN	2.414	KION	2.616	KNGQ	2.490	NMY	2.670	RRD	8.225
JVD	15.860	KEL	6.860	KGZO	2.414	KIOX	2.616	KNGR	2.490	NOB	2.670	RST	5.375
JVE	15.660	KEQ	6.733	KGZP	2.450	KIOZ	2.616	KNGT	2.450	NOB	2.698	RSN	5.440
JVF	15.620	KES	9.490	KGZQ	1.712	KIUK	1.674	KNGU	2.414	NOF	2.670	RSZ	8.770
JVG	14.910	KET	10.410	KGZR	2.442	KIUQ	2.616	KNGV	2.422	NOG	2.670	RTA	6.440
JVI	14.640	KEZ	10.400	KGZT	1.674	KIUW	2.616	KNGW	2.458	NOJ	2.670	RTZ	7.275
JVH	13.560	KFF	2.566	KGZU	2.490	KIUW	2.986	KNGY	2.414	NOM	2.670	RV15	4.273
JVJ	12.270	KGHA	2.490	KGZV	2.414	KIUX	2.616	KNHZ	2.490	NOP	2.670	RV59	5.996
JVK	12.020	KGHB	2.490	KGZW	2.458	KIUZ	3.093	KNHB	2.382	NOR	2.670	SV	13.630
JVL	11.660	KGHC	2.490	KGZX	2.414	KKH	7.520	KNHC	2.450	NOR	2.698	SUV	10.055
JVM	10.740	KGHD	2.490	KGZY	1.712	KKL	15.475	KNHD	1.658	NOU	2.670	SUZ	13.810
JVN	10.660	KGHE	2.490	KHP	1.622	KKP	16.030	KNHE	2.406	NOV	2.670	TFK	9.050
JVO	10.375	KGHG	2.474	KHV	2.566	KKQ	11.950	KNHF	1.712	NOY	2.670	TFJ	12.225
JVP	7.510	KGHH	1.674	KHW	2.912	KKW	13.780	KNHG	2.430	NOZ	2.670	TGF	14.545
JVQ	7.470	KGHM	2.474	KHZ	2.912	KKZ	13.690	KNHM	2.442	OAX4D	5.680	TGS	5.710
JVR	7.390	KGHN	2.450	KIAP	3.093	KLA	2.566	KNIA	2.604	OAX4G	6.230	TGWA	6.000
JVS	6.990	KGHO	1.682	KIAW	3.093	KLB	2.512	KNKG	3.410	OAI	18.670	TGXA	6.130
JVT	6.750	KGHP	2.450	KIAY	3.093	KLC	2.512	KNKS	2.604	OCJ2	14.845	TG1X	9.450
JVU	5.790	KGHQ	2.490	KIBA	3.093	KLD	2.566	KNKU	2.604	OER2	6.072	TG2X	5.940
JVV	5.730	KGHR	2.490	KIBZ	3.265	KLE	2.512	KNKX	2.604	OPL	20.040	TIGP	6.700
JYK	13.600	KGHS	2.414	KICE	3.265	KLKG	2.738	KNKY	2.604	OPM	10.135	TIGPH	5.820
JYR	7.880	KGHT	2.382	KICG	3.265	KLH	2.506	KNLO	3.410	ORG	19.200	TIN	14.545
JYS	9.840	KGHU	2.442	KICI	3.093	KMYA	2.304	KNLP	3.410	ORK	10.330	TIU	14.545
JZA	15.760	KGHV	2.382	KIDE	3.265	KMYA	4.610	KNLQ	3.410	OXY	6.060	TIP	6.410
JZB	15.680	KGHW	2.414	KIED	1.622	KNBD	5.165	KNLR	3.410	OXY	9.493	TIR	7.685
JZC	10.960	KGHX	2.490	KIED	2.150	KNBE	5.165	KNLS	3.387	PCJ	15.220	TIRCC	6.550
JZB	5.830	KGHY	1.712	KIEJ	2.994	KNBF	5.165	KNLT	3.387	PKC	18.400	TISHH	5.520
JZD	16.910	KGHZ	2.406	KIEO	2.150	KNBG	5.165	KNLU	3.387	PCM	18.600	TIBWS	7.550
JZE	13.020	KGI	2.632	KIFI	1.622	KNBH	5.165	KNLV	3.387	PCV	17.830	TPA2	15.245
JZF	8.500	KGIX	1.712	KIFI	2.150	KNBI	5.165	KNLX	3.387	PDK	10.410	TPA3	11.880

SHORT WAVE STATIONS BY CALLS

TPA4	11.715	WAW	12.930	WMEP	2.930	WPEJ	1.712	WQFC	2.466	W2XBJ	10.370	YDH6	3.130
TYA	12.215	WCG	10.380	WMEF	6.615	WPEK	2.430	WQFE	1.634	W2XBJ	13.900	YDH8	1.960
TYA2	9.040	WCK	2.414	WMEQ	6.615	WPEL	1.666	WQFF	2.482	W2XBJ	17.940	YDH9	1.920
TYB	12.250	WCN	5.078	WMES	2.550	WPEN	2.466	WQFG	2.450	W2XE	6.120	YD12	2.110
TYD2	8.575	WCPD	2.430	WMEU	2.930	WPEP	2.450	WQFH	2.450	W2XE	11.830	YD12	3.270
VAC	1.510	WCD	13.410	WMEU	6.615	WPEQ	1.570	WQFI	2.450	W2XE	15.270	YD13	
VAF	1.510	WDB	6.718	WMEV	2.930	WPEP	2.442	WQFJ	2.414	W2XE	17.760	YD14	1.840
VBQ	2.350	WDDQ	2.738	WMEV	6.615	WPET	1.706	WQFK	2.466	W2XE	21.520	YD15	2.870
VBV	1.540	WDFL	2.738	WMF	14.470	WPEV	1.666	WQFL	1.712	W3XAL	6.100	YDK2	3.190
VBY	1.650	WDG	4.535	WML	2.422	WPEW	1.666	WQFM	2.442	W3XAL	17.780	YDK3	2.910
VDC	4.490	WDN	4.550	WMN	14.590	WPFA	1.712	WQFO	2.430	W3XAU	6.060	YDK4	2.890
VDD	4.436	WDS	18.900	WMO	2.414	WPFF	2.442	WQFQ	2.442	W3XAU	9.590	YDK5	2.710
VDD	4.865	WEA	10.610	WMP	1.666	WPFF	2.430	WQFT	1.596	W3XL	6.425	YDK6	1.860
VDV	4.490	WEB	6.935	WNA	9.170	WPFF	2.442	WQFT	1.692	W3XL	17.310	YDL2	4.810
VE9AS	6.425	WEC	8.930	WNB	10.675	WPFG	2.442	WQFV	2.414	W3XB	6.040	YDL3	3.450
VE9BJ	6.090	WEL	8.950	WNC	15.055	WPFG	2.414	WQFW	1.634	W3XB	3.493	YDL4	3.410
VE9BK	4.795	WEL	13.435	WND	4.098	WPFI	2.414	WQFX	1.712	W3XA	1.682	YDL5	3.210
VE9CA	6.030	WEM	7.400	WNEB	8.220	WPFK	2.430	WQFY	2.474	W3XA	6.060	YDL6	2.750
VE9CS	6.070	WES	9.448	WNEI	1.622	WPFM	2.382	WQFZ	2.458	W3XK	6.140	YDM2	3.320
VE9DN	6.005	WET	9.470	WNEI	2.150	WPFN	1.712	WQGL	15.040	W3XK	9.570	YDN2	1.940
VE9DR	6.005	WEY	1.630	WNEK	6.615	WPFO	2.474	WQL	14.815	W3XK	11.870	YDN3	2.790
VE9EW	7.900	WEZ	8.075	WNER	2.060	WPFP	2.490	WQN	5.265	W3XK	15.210	YD02	3.430
VFJ	2.290	WHER	2.102	WNGF	2.538	WPFQ	2.474	WQN	5.505	W3XK	17.780	YD03	3.290
VIA	1.520	WHER	1.606	WNFJ	2.986	WPFQ	2.458	WQN	5.825	W3XK	21.540	YD04	3.170
VIZ3	11.495	WIED	1.566	WNFP	2.422	WPFQ	2.474	WQN	5.825	W3XAA	6.080	YD05	2.930
VJZ	13.880	WIED	2.390	WOA	6.755	WPFQ	2.442	WQN	6.725	W3XAA	11.830	YD06	3.430
VKO	1.520	WIEG	2.150	WOE	8.580	WPFU	2.422	WQP	13.900	W3XAA	17.780	YD07	2.070
VK1	6.425	WIEH	1.622	WOB	12.862	WPFV	2.466	WQP	1.610	W3XAK	2.050	YD08	1.980
VK2ME	9.585	WIEK	1.646	WOF	9.750	WPFV	2.466	WQP	1.610	W3XAK	6.425	YD09	1.880
VK3LR	9.580	WIEK	2.190	WOFW	2.738	WPFX	2.442	WQF	1.610	W3XF	6.100	YDQ2	3.390
VK3ME	9.490	WIEL	1.646	WOG	4.253	WPFY	2.442	WQF	1.610	W3XF	6.100	YDQ3	3.350
VLJ	9.750	WIEL	2.190	WOG	8.560	WPFZ	2.442	WQF	1.610	W3XJ	11.000	YDQ4	3.230
VLK	8.095	WIEO	1.606	WOK	10.550	WPGA	2.466	WQPS	1.610	XEBT	6.000	YDQ5	2.950
VLK	10.520	WIEO	2.020	WON	9.870	WPGB	2.466	WQQ	20.260	XECR	7.300	YDQ6	2.810
VLZ	7.960	WIEO	2.102	WOO	4.178	WPGC	1.658	WQR	16.015	XEDQ	9.520	YDQ7	4.260
VLZ	7.980	WIEO	2.760	WOO	4.753	WPGD	2.458	WQR	14.800	XEFT	6.120	YDQ8	2.760
VPD	13.075	WIEW	1.606	WOO	8.560	WPGF	1.712	WQQ	20.100	XEOK	6.430	YDU4	2.830
VP3MR	7.080	WIEW	2.102	WOO	12.840	WPGG	1.596	WRBH	2.458	XEUW	6.020	YDU5	1.850
VQG	19.630	WIEX	1.566	WOQ	17.120	WPGH	2.414	WRDQ	2.474	XEVI	5.985	YDV2	14.480
VQJM	4.430	WIEO	1.606	WOU	2.506	WPGI	2.430	WRDR	2.414	XEXA	6.182	YNA	14.680
VQJM	8.830	WIEO	2.102	WOX	2.590	WPGJ	2.414	WRDS	1.642	XGB	11.140	YNLF	5.958
VQJP	4.430	WIEO	2.390	WOY	4.178	WPGK	2.466	WRJ	3.410	XGK	18.690	YNVA	8.590
VQJP	8.830	WIFI	2.738	WOY	4.753	WPLG	2.442	WST	3.410	XGL	7.960	YSL	14.960
VQ7LO	6.060	WIR	4.276	WOY	8.560	WPGM	2.414	WTDV	4.295	XGN	16.380	YT2	4.200
VR4	11.595	WIR	13.870	WOY	12.840	WPGN	2.490	WTDW	4.295	XGO	7.575	YVQ	6.672
VUB	9.565	WJER	1.606	WOY	17.120	WPGO	2.490	WTDX	4.295	XGOX	6.000	YVQ	13.327
VUC	6.112	WJER	2.102	WOZ	3.423	WPGP	2.442	WTR	6.385	XGOX	9.500	YVR	9.168
VUC	9.575	WJN	7.370	WJN	6.385	WPGQ	1.596	WVD	2.604	XGW	10.420	YVR	18.296
VVY	9.045	WKA	21.060	WPDA	2.414	WPGS	2.490	WVD	5.995	YBG	10.430	YV2RC	5.800
VVY2	17.480	WKC	10.465	WPDB	1.712	WPGT	2.482	WVD	6.618	YBZ	7.680	YV3RC	6.165
VVZ	8.690	WKDL	3.070	WPDC	1.712	WPGU	1.712	WVD	8.620	YCP	8.575	YV4RC	6.375
VVZ	8.693	WKDL	5.405	WPDD	1.712	WPGW	2.382	WVAD	4.988	YDA	3.040	YV5RMO	8.850
VVZ	8.700	WKDT	1.630	WPDE	2.442	WPGX	2.466	WVAJ	3.410	YDA	6.040	YV6VR	6.520
VVZ	8.708	WKDU	1.706	WPDG	2.458	WPGZ	2.474	WVAL	3.410	YDA2	2.385	YV7RMO	5.810
VXU	5.540	WKEM	1.622	WPDH	2.442	WPJA	2.466	WVAM	3.410	YDA3	1.640	YV8RB	5.895
VXU	5.540	WKEM	2.150	WPDI	2.430	WPJB	2.422	WVAA	3.410	YDA4	1.550	YV9RC	6.400
VXW	5.540	WKF	4.253	WPDJ	2.414	WPHC	1.596	WWE	3.410	YDA5	6.120	YV10RC	7.520
VXX	5.405	WKF	19.220	WPKD	2.450	WPHD	2.458	WWE	3.410	YDA6	2.870	YV12RM	6.300
VYP	1.596	WKJ	9.460	WPKL	2.442	WPHE	1.634	WWW	3.410	YDA7	3.270	ZBW	8.750
VYP	1.668	WKK	21.410	WPDM	2.430	WPHF	2.450	WWWJ	3.410	YDA8	1.510	ZEB	6.147
YYR	1.712	WKL	8.940	WPDN	2.382	WPHG	1.712	WWW	3.410	YDB	4.470	ZEC	6.000
YYW	2.396	WKM	18.860	WPDO	2.458	WPHI	2.490	WWW	3.410	YDB2	2.450	ZFA	5.025
YYZ	2.212	WKN	19.820	WPDQ	2.474	WPHJ	2.490	WWW	3.410	YDB3	1.660	ZFB	10.055
WAD	8.930	WKO	15.970	WPDR	2.422	WPHK	1.596	WWW	5.000	YDB4	1.615	ZFD	10.335
WAE5	5.612	WKP	6.950	WPDS	2.430	WPHM	2.442	WWW	10.000	YDB5	1.595	ZFO	5.300
WAJJ	3.190	WKU	14.830	WPDW	2.490	WPHN	2.466	WWW	15.000	YDB6	1.570	ZFS	4.512
WAKJ	3.190	WKA	15.445	WPDW	1.712	WPHO	2.430	WWW	3.410	YDB7	1.530	ZGE	6.125
WAKJ	3.190	WLK	18.350	WPDV	2.458	WPHQ	2.466	WXA	8.050	YDB2	1.630	ZHI	6.060
WAKM	3.190	WLEB	1.646	WPDW	2.422	WPHQ	2.490	WXE	2.998	YDD3	1.585	ZHJ	6.080
WAKN	3.190	WLEB	2.150	WPDW	2.414	WPHS	1.634	WXH	2.604	YDE2	4.810	ZLR	7.390
WAKN	3.190	WLQF	2.738	WPDY	2.414	WPHS	1.596	WXH	6.662	YDE3	2.910	ZLS	8.900
WAKA	2.490	WLK	16.270	WPDZ	2.490	WPHU	1.634	WYBF	2.604	YDE5	2.350	ZLT2	7.390
WAKB	2.466	WLL	17.900	WPDA	2.382	WPHY	2.474	WXAL	6.040	YDG2	3.470	ZLT4	11.000
WAKC	2.366	WMA	13.390	WPDB	2.442	WPHZ	2.482	WXAL	11.790	YDG3	3.150	ZSR	9.180
WAKF	1.712	WMDU	3.070	WPCC	2.466	WQSP	1.674	WXAL	15.250	YDG4	2.850	ZSS	19.890
WAKG	2.466	WMDU	5.405	WPED	1.712	WQB	17.940	WXAL	21.460	YDG5	2.090	ZSV	8.220
WAKH	2.438	WMDZ	2.442	WPEE	2.450	WQD	18.960	WXH	2.110	YDG6	1.900	ZSV	12.500
WAKI	2.474	WMEF	1.606	WPEF	2.450	WQE	18.920	WXK	9.570	YDQ7	3.300	ZTJ	6.100
WAKJ	1.698	WMEF	2.020	WPEG	2.450	WQF	17.920	WXAX	15.330	YDH3	3.490	ZP10	6.666
WAKK	2.490	WMEF	2.102	WPEH	1.712	WQFA	2.466	WXAX	9.530	YDH4	3.310	ZP11	
WANB	2.726	WMEF	2.760	WPEI	1.712	WQFB	2.414	W2XBJ	4.550	YDH5	3.250	ZP11	3.800

NBC has shifted the National Farm & Home Hour to 11:30 a.m. (EDST) on the Blue network six days a week following the change to daylight saving time April 26.

With the termination of Father Coughlin's fall and winter broadcast series on April 26, it was disclosed that he will resume his independent hookup on or about Oct. 20, or practically on the eve of the national elections. The Coughlin network

cost him approximately \$210,000 for lines and station time during the last six months.

KIRO, Seattle, which has just received an increase in power to 1,000 watts, has appointed John Blair & Co., station representatives, to handle its representation nationally. The station is under the general management of H. J. Quilliam. It recently moved into new studios in the Cobb Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

540 kcys. (555.2) Heard | Logged | Reported | Verified

CJRM ak 1000 F Moose Jaw, Sask.

550 kcys. (545.1) *92-550*

CFNB ak 500 F (1) Fredericton, N. B.
 KFUD ae 500 2 (1) St. Louis, Mo.
 KFYZ ae 1000 N (5) Bismarck, N. D.
 KOAC ak 1000 Corvallis, Ore.
 KSD ak 1000 2R (5) St. Louis, Mo.
 KTSA ak 1000 C (5) San Antonio, Tex.
 WDEV ae 500 D Waterbury, Vt.
 WGR ck 1000 C Buffalo, N. Y.
 WKRC ak 1000 C Cincinnati, Ohio
 WVA ak 500 D Harrisonburg, Va.

560 kcys. (535.4)

KFDM ak 500 (1) Beaumont, Tex.
 KLZ ae 1000 C Denver, Colo.
 KSFO ak 1000 San Francisco, Cal.
 KWTO ak 5000 D Springfield, Mo.
 WFIL ak 1000 B Philadelphia, Pa.
 WIND ak 1000 (5) Gary, Ind.
 WIS ae 1000 N (5) Columbia, S. C.
 WQAM ae 1000 C Miami, Fla.
 XEAO ak 250 (15) Mexicali, L. C.
 XEFC ak 100 Merida, Yuc.

570 kcys. (526.0)

KGKO ak 250 C (1) Wichita Falls, Tex.
 KMTR ak 1000 Hollywood, Calif.
 KVI ak 1000 C Tacoma, Wash.
 WKBN ae 500 1C Youngstown, Ohio
 WMCA ak 500 New York, N. Y.
 WNAX ak 1000 C (5) Yankton, S. D.
 WOSU ak 750 1 (1) Columbus, Ohio
 WSYR ak 250 BX Syracuse, N. Y.
 WWNC ak 1000 N Asheville, N. C.

580 kcys. (516.9)

CFPR z 50 Prince Rupert, B.C.
 CHRC ak 100 F Quebec, Que.
 CJGX ae 100 F Yorkton, Sask.
 CKCL ae 100 F Toronto, Ont.
 CKUA ak 500 Edmonton, Alta.
 KMJ ak 1000 C Fresno, Calif.
 KSAC ak 500 2 (1) Manhattan, Kans.
 WCHS ak 500 (1) Charleston, W. Va.
 WDBO ae 1000 C Orlando, Fla.
 WIBW ak 1000 C2 (5) Topeka, Kans. *7-25-1.50*

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WTAG	ae	500	R	Worcester, Mass.	Heard	Logged	Reported	Verified
590 kcys. (508.2)					<input type="text"/>			
KHQ	ak	1000	R (2.5)	Spokane, Wash.				
WEEL	ak	1000	R	Boston, Mass.				
WKZO	ae	1000	DX	Kalamazoo, Mich.				
WOW	ae	5000	R(5)	Omaha, Nebr.				
XEPN	ak	50000		Piedras Negras, Coah.				
600 kcys. (499.7)					<input type="text"/>			
CFCF	ae	400	FN	Montreal, Que.				
CJOR	ak	500		Vancouver, B. C.				
CMW	ak	1400		Havana, Cuba				
CRCW	ak	500	F (1)	Windsor, Ont.				
FON	z	250	609	St. Pierre, Miq.				
KFSD	ae	1000	B	San Diego, Calif.				
WCAO	ae	500	C (1)	Baltimore, Md.				
WICC	ae	500	2 C (1)	Bridgeport, Conn.				
WMT	ak	1000	B (2.5)	Cedar Rapids, Ia.				
WREC	ak	1000	C (2.5)	Memphis, Tenn.				
610 kcys. (491.5)					<input type="text"/>			
KFRC	ck	1000	C (5)	San Francisco, Cal.				
WDAF	ak	1000	R (5)	Kansas City, Mo.				
WIP	ae	1000		Philadelphia, Pa.				
WJAY	ae	500	D	Cleveland, Ohio				
NEXM	z			Mexico City, D. F.				
XFX	ak	1000		Mexico City, D. F.				
620 kcys. (483.6)					<input type="text"/>			
KGW	ak	1000	R (5)	Portland, Ore.				
KTAR	ae	1000	N	Phoenix, Ariz.				
WFLA	ae	1000	Na (5)	Clearwater, Fla.				
WLJB	ak	250	D	Greensburg, Pa.				
WLBZ	ak	500	C (1)	Bangor, Maine				
WSUN	ae	1000	Na (5)	St. Petersburg, Fla				
WTMJ	ae	1000	N (5)	Milwaukee, Wis.				
630 kcys. (475.9)					<input type="text"/>			
CFCO	ak	100	F	Chatham, Ont.				
CFCY	ae	1000	F	Charlottetown, P.E.I.				
CJRC	ak	500	F (1.)	Winnipeg, Man.				
CKOV	ak	100	F	Kelowna, B. C.				
KFRU	ak	500	I (1)	Columbia, Mo.				
KGFX	ak	200	D	Pierre, S. D.				
WGBF	ak	500	I	Evansville, Ind.				
WMAL	ak	250	B (.5)	Washington, D. C.				
WOS	ak	500	ID	Jefferson City, Mo.				
WPRO	ak	250		Providence, R. I.				
XEZ	z	500		Merida, Yuc.				
640 kcys. (468.5)					<input type="text"/>			
CMBC	dj	150		Havana, Cuba.				
KFI	ah	50000	R	Los Angeles, Calif.				
WAIU	ae	500		Columbus, Ohio				
WOL	ae	5000	D	Ames, Iowa				
XEOX	ak	500		Saltillo, Coah.				
	z	500	P	Portland, Me.				
650 kcys. (461.3)					<input type="text"/>			
TIGPH	ak	1000		San Jose, C. R.				
WSM	ae	50000	N	Nashville, Tenn.				
660 kcys. (454.3)					<input type="text"/>			
WAAW	ak	500	D	Omaha, Neb.				
WEAF	ak	50000	R	New York, N. Y.				

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

670 keys. (447.5)

Heard Logged Reported Verified

WMAQ ak 50000 N Chicago, Ill.

680 keys. (440.9)

CMGG ak 150 Havana, Cuba.
 KFEO ak 2500 D St. Joseph, Mo.
 KPO ak 50000 R San Francisco, Cal.
 RDN z 500 San Salvador, E.S.
 VAS akn 2000 685 Glace Bay, N. S.
 VOWR ck 500 681 St. John's, Nfld.
 WPTF ae 5000 DnN Raleigh, N. C.

690 keys. (434.5)

CFRB ak 10000 C Toronto, Ont.
 CJCJ aj 100 F Calgary, Alta.
 NAA akn 1000 Arlington, Va.
 XET ak 500 Monterrey, N. L.

700 keys. (428.3)

WLW ak 50000 N Cincinnati, Ohio

710 keys. (422.3)

KIRO ae 500 Seattle, Wash.
 KMPC ak 500 Beverly Hills, Cal.
 WOR ak 50000 Newark, N. J.
 XEN ak 1000 Mexico City, D. F.

720 keys. (416.4)

WGN ak 50000 Chicago, Ill.

730 keys. (410.7)

CFPL ak 100 F London, Ont.
 CJCA ah 1000 F Edmonton, Alta.
 CKAC ck 5000 C Montreal, Que.
 CKPR ak 100 F Fort William, Ont.
 CMK ae 3000 Havana, Cuba

740 keys. (405.2)

KMMJ ae 1000 D Clay Center, Neb.
 KTRB ak 250 D Modesto, Calif.
 WHEB ak 250 D Portsmouth, N. H.
 WSB ah 50000 N Atlanta, Ga.

750 keys. (399.8) 750

CMCW dk 150 Havana, Cuba
 KGU aj 2500 N Honolulu, T. H.
 WJR ak 50000 C Detroit, Mich.
 XEAM z 7.5 Matamoros, Tams.

760 keys. (394.5)

CMHX ak 200 Cienfuegos, Cuba
 KXA ae 250 (.5) Seattle, Wash.
 WBAL ae 2500 BSY Baltimore, Md.
 WEW ae 1000 D St. Louis, Mo.
 WJZ ak 50000 BSY New York, N. Y.
 XEOK ak 250 Tijuana, L. C.

770 keys. (389.4)

CMBS ak 150 Havana, Cuba
 KFAB ae 10000 CSY Lincoln, Neb.
 WBBM ae 50000 CSY Chicago, Ill.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

780 keys. (384.4) **Heard** **Logged** **Reported** **Verified**

CHWK dk 100 F Chilliwack, B. C.
 CKSO ak 1000 F Sudbury, Ont.
 CMJK ak 250 Camaguey, Cuba
 KEHE ak 500 (1) X Los Angeles, Calif.
 KFDY ae 1000 D Brookings, S. D.
 KFOD ck 250 Anchorage, Alaska
 KGHIL ak 1000 N (2.5) Billings, Mont.
 WEAN ae 500 C Providence, R. I.
 WMC ak 1000 N (5.) Memphis, Tenn.
 WTAR ae 500 N (1) Norfolk, Va.
 XEYZ z 10000 Mexico City, D. F.

790 keys. (379.5)

CMGH z 250 Matanzas, Cuba
 KGO ak 7500 B San Francisco, Cal.
 WGY ak 50000 R Schenectady, N. Y.

800 keys. (374.8)

HIX ak 700 Trujillo, D. R.
 TIX ak San Jose, C. R.
 WBAP ak 50000 Na Fort Worth, Tex.
 WFAA ak 50000 Na Dallas, Tex.
 WTBO ak 250 D Cumberland, Md.

810 keys. (370.2)

CMCF ak 600 Havana, Cuba
 WCGO ae 50000 C Minneapolis, Minn.
 WNYC ak 1000 D New York, N. Y.
 XFC z 350 Aguascalientes, Ags.

820 keys. (365.6)

CMHW ak 100 Cienfuegos, Cuba.
 WHAS aj 50000 C Louisville, Ky.
 XEMZ z Coronado Isle, L. C.

830 keys. (361.2)

KOA ak 50000 N Denver, Colo.
 WEEU ak 1000 D Reading, Pa.
 WHDH ae 1000 Dn Boston, Mass.
 WRUF ae 5000 Dn Gainesville, Fla.

840 keys. (356.9)

CFOC ak 1000 F Saskatoon, Sask.
 CRCT ak 5000 FN Toronto, Ont.
 VOGY ak 400 St. John's, Nfld.
 XERA ck 250000 Villa Acuna, Coah.

850 keys. (352.7)

CMBN z 150 Havana, Cuba
 KIEV ak 250 D Glendale, Calif.
 TIEP z 500 San Jose, C. R.
 WESG ak 1000 C Elmira, N. Y.
 WKAR ae 1000 D East Lansing, Mich.
 WWL ae 10000 C New Orleans, La.

860 keys. (348.6)

WABC ak 50000 C New York, N. Y.
 WHB ak 1000 D Kansas City, Mo.
 XEMO ak 5000 Tijuana, L. C.

870 keys. (344.6)

WENR ak 50000 Na Chicago, Ill.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WLS ae 5000 Na Chicago, Ill. **Heard** **Logged** **Reported** **Verified**

880 keys. (340.7)

CFJC	ak	100	F	Kamloops, B. C.
CMQ	ak	500	....	Havana, Cuba
CRCO	ak	1000	F	Ottawa, Ont.
KFKA	ak	500	2 (1)	Greeley, Colo.
KLX	ae	1000	....	Oakland, Calif.
KPOF	ae	500	2	Denver, Colo.
WCOC	ae	500	(1)	Meridian, Miss.
WGBI	ae	500	1	Scranton, Pa. 20, 80 - 7-35
WPHR	ak	500	D	Petersburg, Va.
WQAN	ae	250	1	Scranton, Pa.
WSUI	ae	500	(1)	Iowa City, Iowa

890 keys. (336.9)

KARK	ak	250	(.5) X	Little Rock, Ark. 7-26 10 143
KPNF	ak	500	2 (1)	Shenandoah, Iowa
KFPY	ak	1000	C (5)	Spokane, Wash.
KUSD	ae	500	2	Vermillion, S. D.
WBAA	ak	1000	D	W. Lafayette, Ind.
WGST	ak	1000	C	Atlanta, Ga.
WILL	ak	250	XZ	Urbana, Ill.
WJAR	ae	500	R	Providence, R. I.
WMMN	ak	500	C(1)	Fairmount, W. Va.
XEW	ak	50000	....	Mexico City, D. F.

900 keys. (333.1) 900

KGBU	ak	500	X	Ketchikan, Alaska
KHJ	ae	1000	C (5)	Los Angeles, Calif.
KSEI	ck	250	(.5)	Pocatello, Idaho
WBEN	ak	1000	R (5)	Buffalo, N. Y.
WELI	z	500	D	New Haven, Conn.
WFMD	ah	500	D	Frederick, Md.
WJAX	aeh	1000	N (5)	Jacksonville, Fla.
WKY	ae	1000	N	Oklahoma City, Okla.
WLBL	ak	2500	D	Stevens Point, Wis.
WTAD	ak	500	D	Quincy, Ill.

910 keys. (329.6) 910

CJAT	ak	1000	F	Trail, B. C.
CKY	ak	15000	F	Winnipeg, Man.
CRGM	ak	5000	F	Montreal, Que.
XENT	ak	150000	....	Nuevo Laredo, Tams.

920 keys. (325.9) 922

CMX	ae	1000	....	Havana, Cuba
HHK	ae	1000	....	Port-au-Prince, Haiti
KFEL	ak	500	a	Denver, Colo.
KOMO	ak	1000	R (5)	Seattle, Wash.
KPRC	ak	1000	N (5)	Houston, Texas
KVOD	ak	500	a	Denver, Colo.
WAAF	ak	1000	D	Chicago, Ill.
WORL	ae	500	D	Needham, Mass.
WPEN	ak	250	(.5) 1	Philadelphia, Pa.
WRAX	ak	250	1 (.5)	Philadelphia, Pa.
WSPA	ae	1000	D	Spartanburg, S. C.
WWJ	ak	1000	R (5)	Detroit, Mich.
XEAA	ak	200	....	Mexicali, L. C.

930 keys. (322.4) 933

CFAC	ak	100	F	Calgary, Alta.
CFCH	ak	100	F	North Bay, Ont.
CFLC	ae	100	....	Prescott, Ont.
CHNS	ae	1000	F	Halifax, N. S.
CKPC	ae	100	F	Brantford, Ont.
KMA	ak	1000	(2.5)	Shenandoah, Iowa
KROW	ak	1000	....	Oakland, Calif.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

					Heard	Logged	Reported	Verified
TIRH	z	50	....	San Jose, C. R.				
WBRC	ak	1000	C	Birmingham, Ala.				
WDBJ	ae	1000	C (5)	Roanoke, Va.				
XEHB	z	500	....	Hermosillo, Sonora				

940 kcys. (319.0) 940

KOIN	ak	1000	C (5)	Portland, Ore.
VOAS	ak	100	....	St. John's, Nfld.
WAAT	ae	500	D	Jersey City, N. J.
WAVE	bk	1000	N	Louisville, Ky.
WCSH	ae	1000	R (2.5)	Portland, Maine
WDAY	ae	1000	N (5)	Fargo, N. D.
WHA	ak	2500	DX	Madison, Wis.
XEFO	ak	5000	(XFO)	Mexico City, D. F.

950 kcys. (315.6) 950

CJOC	ak	100	F	Lethbridge, Alta.
CMCD	ak	250	....	Havana, Cuba
CRCS	ak	100	F	Chicoutimi, Que.
KFWB	ak	1000	(5)	Hollywood, Calif.
KHSL	ak	250	D	Chico, Calif.
KMBC	ae	1000	C (5)	Kansas City, Mo.
WRC	ak	500	R (1)	Washington, D. C.
YNVA	z	30	....	Managua, Nic.

960 kcys. (312.3)

CHNC	ak	1000	F	New Carlisle, Que.
XEAW	ck	50000	....	Reynosa, Tams.

970 kcys. (309.1) 970

CMBY	z	150	....	Havana, Cuba.
KJR	ak	5000	B	Seattle, Wash.
WCFL	ae	5000	B	Chicago, Ill.
WIBG	ak	100	D	Glenside, Pa.

980 kcys. (306.0) 980

KDKA	ae	50000	B	Pittsburgh, Pa.
XEF	z	100	....	Juarez, Chih.

990 kcys. (302.8) 990

WBZ	ak	50000	BSy	Boston, Mass.
WBZA	ak	1000	BSy	Springfield, Mass.
XEAF	ak	500	....	Nogales, Sonora
XEK	ak	100	....	Mexico City, D. F.
XES	dk	250	....	Tampico, Tams.

1000 kcys. (299.8) 1000

CMBZ	ak	150	....	Havana, Cuba
KFVD	ak	250	Dn	Los Angeles, Calif.
TIGH	z	500	....	San Jose, C. R.
WHO	ak	50000	R	Des Moines, Iowa
XEBK	z	100	....	Nuevo Laredo, Tams.
XEY	z	10	....	Merida, Yuc.

1010 kcys. (296.9) 1010

CHML	ak	100	F	Hamilton, Ont.
CHWC	ak	500	3F	Regina, Sask.
CKCD	ak	100	....	Vancouver, B. C.
CKCK	ak	500	3F	Regina, Sask.
CKCO	ak	100	F	Ottawa, Ont.
CKIC	ak	50	....	Wolfville, N. S.
CKWX	ak	100	F	Vancouver, B. C.
CMJA	ak	50	....	Camaguey, Cuba
KGGF	ak	1000	2	Coffeyville, Kans.
KOW	ak	1000	....	San Jose, Calif.
TIGA	z	30	1014	Cartago, C. R.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

				Heard	Logged	Reported	Verified
WHN	ae	1000	(5)	New York, N. Y.			
WNAD	ae	1000	2	Norman, Okla.			
WNOX	ak	1000	C (2)	Knoxville, Tenn.			
XEU	ak	250	....	Veracruz, Ver.			

1020 keys. (293.9) 1020

KYW	ak	10000	R	Philadelphia, Pa.			
WDZ	ak	250	D	Tuscola, Ill.			
XEJ	ak	1000	....	Juarez, Chih.			

1030 keys. (291.1) 1030

CFCN	ak	10000	....	Calgary, Alta.			
CKLW	ag	5000	....	Windsor, Ont.			
CMCY	ak	1000	....	Havana, Cuba			
XEB	ak	10000	....	Mexico City, D. F.			

1040 keys. (288.3) 1040

KRLD	ae	10000	C	Dallas, Texas			
KWJJ	ak	500	....	Portland, Ore.			
WTIC	ah	50000	....	Hartford, Conn.			

1050 keys. (285.5)

CMKD	ak	250	....	Santiago, Cuba			
CRCK	ak	1000	F	Quebec, Que.			
KFBI	ak	5000	Dn	Abilene, Kans.			
KNX	ak	50000	....	Hollywood, Calif.			
TIFA	z	75	....	San Jose, C. R.			

1060 keys. (282.8) 1060

KTHS	ae	10000	N	Hot Springs, Ar. k.			
VOAC	z	40	1065	St. John's, Nfld.			
WBAL	ak	10000	B	Baltimore, Md.			
WJAG	ak	1000	D	Norfolk, Neb.			
XEA	ak	500	....	Guadalajara, Jal.			

1070 keys. (280.2) 1070

CMBX	ak	500	....	Havana, Cuba			
CMHA	z	50	....	Sagua la Grande, C.			
KJBS	ak	500	Dn	San Francisco, Cal			
WCAZ	ak	100	D	Carthage, Ill.			
WTAM	ak	50000	R	Cleveland, Ohio			

1080 keys. (277.6) 1080

WBT	ak	50000	C	Charlotte, N. C.			
WCBD	ak	5000	1Dn	Waukegan, Ill.			
WMBI	ak	5000	1Dn	Chicago, Ill.			

1090 keys. (275.1) 1090

KMOX	ak	50000	C	St. Louis, Mo.			
XEAQ	ak	1000	....	Rosarito, L. C.			

1100 keys. (272.6) 1100

CRCV	ak	500	F	Vancouver, B. C.			
KGDM	ak	1000	D	Stockton, Calif.			
KWKH	ae	10000	C	Shreveport, La.			
WLWL	ae	5000	1	New York, N. Y.			
WPG	ak	5000	1C	Atlantic City, N. J.			
XEL	z	250	....	Mexico City, D. F.			

1110 keys. (270.1) 1120

CMCJ	ak	500	....	Havana, Cuba.			
KSOO	ak	2500	Dn	Sioux Falls, S. D.			
WRVA	ae	5000	N	Richmond, Va.			

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XELO z 10000 Piedras Negras, Co. **Heard** | **Logged** | **Reported** | **Verified**

1120 kcys. (267.7) 1120

CHLP ak 100 F Montreal, Que.
 CHSJ ae 500 F (1) St. John, N. B.
 CKOC ae 500 F (1) Hamilton, Ont.
 CKX ak 100 F Brandon, Man.
 CMGF dk 150 Matanzas, Cuba
 CMKM ak 50 Manzanillo, Cuba
 KFIO ae 100 D Spokane, Wash.
 KFSG ag 500 a (2.5) Los Angeles, Calif.
 KRKD aj 500 a (2.5) Los Angeles, Calif.
 KRSC ak 100 D Seattle, Wash.
 WCOP ak 500 D Boston, Mass.
 WDEL ak 250 (.5) Wilmington, Del.
 WISN ak 250 (1) Milwaukee, Wis.
 WTAW ae 500 College Station, Tex.

1130 kcys. (265.3) 1140

CMJI ak 50 Ciego de Avila, Cuba
 KSL ae 50000 C Salt Lake City, Utah
 WJJD ak 20000 Dn Chicago, Ill.
 WOV ag 1000 D New York, N. Y.

1140 kcys. (263.0)

CMBG z 200 Havana, Cuba
 KVOO ak 25000 1N Tulsa, Okla.
 WAPI ae 5000 1N Birmingham, Ala.
 WSPR z 500 P Springfield, Mass.

1150 kcys. (260.7) 1160

CMJF z 200 Camaguey, Cuba
 WHAM ae 50000 B Rochester, N. Y.
 XED ak 2500 1155 Guadalajara, Jal.
 XEFL ak 250 Tijuana, L. C.
 XEH ak 250 Monterrey, N. L.
 XEWZ ak 100 Mexico City, D. F.

1160 kcys. (258.5) 1170

CMHJ z 100 Cienfuegos, Cuba
 WOWO ae 10000 1C Fort Wayne, Ind.
 WWVA ak 5000 1C Wheeling, W. Va.
 XEAS z 100 Saltillo, Coah.
 XEC z 30 Tijuana, L. C.
 XESL z Tijuana, L. C.

1170 kcys. (256.3) 1150

CMBD z 150 Havana, Cuba
 WCAU ae 50000 C Philadelphia, Pa.

1180 kcys. (254.1)

CMJO ak 50 Ciego de Avila, Cuba
 KEX ak 5000 2B Portland, Ore.
 KOB ak 10000 2 Albuquerque, N.M.
 VE9EK ak 10 1185 Montmagny, Que.
 WDGY ak 1000 Dn (5) Minneapolis, Minn.
 WINS ak 1000 New York, N. Y.
 WMAZ ak 1000 Macon, Ga.
 KEFA z 500 Mexico City, D. F.

1190 kcys. (252.0)

HIJ z 15 1195 Trujillo, D. R.
 VONF ak 500 1195 St. John's, Nfld.
 WATR ak 100 D Waterbury, Conn.
 WOAI ak 50000 N San Antonio, Tex.
 WSAZ ak 1000 Huntington, W. Va.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1200¹ kcys. (249.9) 1210 Heard | Logged | Reported | Verified

CHAB	ak	100	F	Moose Jaw, Sask.
CKNX	ak	50	.....	Wingham, Ont.
CKTB	ae	100	F	St. Catherines, Ont.
CMCO	ak	150	.....	Havana, Cuba
KADA	ak	100	D	Ada, Okla.
KBTM	ak	100	D	Jonesboro, Ark.
KFJB	ak	100	(.25)	Marshalltown, Iowa
KFXD	ae	100	(.25)	Nampa, Idaho
KFXJ	ak	100	(.25)	Grand Junc., Colo.
KGDE	ak	100	(.25)	Fergus Falls, Minn.
KGEK	ak	100	.....	Sterling, Colo.
KGFJ	ae	100	.....	Los Angeles, Calif.
KGHI	ak	100	(.25)	Little Rock, Ark.
KMLB	ak	100	.....	Monroe, La.
KSUN	ak	100	.....	Lowell, Ariz.
KVCV	z	100	P	Redding, Calif.
KVOS	dk	100	.....	Bellingham, Wash.
KWG	ak	100	C	Stockton, Calif.
WABI	ak	100	.....	Bangor, Maine
WAIM	ak	100	XZ	Anderson, S. C.
WAYX	z	100	P	Waycross, Ga.
WBBZ	ak	100	.....	Ponca City, Okla.
WBNO	ak	100	I	New Orleans, La.
WCAT	ak	100	D	Rapid City, S. D.
WCAX	ak	100	.....	Burlington, Vt.
WCLO	ak	100	X	Janesville, Wis.
WCPO	ak	100	(.25)	Cincinnati, Ohio
WEST	ae	100	3 (.25)	Easton, Pa.
WFAM	ak	100	8	South Bend, Ind.
WHBC	ak	100	(.25)	Canton, Ohio
WHBY	ak	100	(.25)	Green Bay, Wis.
WIBX	aej	100	(.3) C	Utica, N. Y.
WIL	ak	100	(.25)	St. Louis, Mo.
WJBC	ak	100	6(.25)	Bloomington, Ill.
WJBL	ak	100	6	Decatur, Ill.
WJBW	ak	100	I	New Orleans, La.
WJNO	z	100	P	W. Palm Beach, Fla
WJRD	z	100	DP	Tuscaloosa, Ala.
WKBO	ak	100	3 (.25)	Harrisburg, Pa.
WLVA	ak	100	(.25)	Lynchburg, Va.
WMER	ae	100	D	High Point, N. C.
WMPC	ak	100	(.25)	Lapeer, Mich.
WNRJ	ak	100	(.25)	Newport, R. I.
WRBL	ak	100	.....	Columbus, Ga.
WTHT	z	100	DP	Hartford, Conn.
WWAE	ae	100	8	Hammond, Ind.
.....	z	100	P	Lewistown, Mont.

1210 kcys. (247.8) 1220

CJCS	z	50	.....	Stratford, Ont.
CJCU	z	50	.....	Aklavik, N. W. T.
CKBI	ak	100	F	Prince Albert, Sask.
CKCH	ak	100	F	Hull, Que.
CKMC	ak	50	.....	Cobalt, Ont.
CMHI	ak	150	.....	Santa Clara, Cuba
KANS	z	100	P	Wichita, Kans.
KASA	ck	100	.....	Elk City, Okla.
KDLR	ak	100	.....	Devils Lake, N. D.
KDON	z	100	.....	Del Monte, Calif.
KFJI	ak	100	.....	Klamath Falls, Ore.
KFOR	ae	100	(.25) C	Lincoln, Neb.
KFPW	ak	100	.....	Fort Smith, Ark.
KFVS	ak	100	6(.25)	Cape Girardeau, Mo.
KFXM	ak	100	9	San Bernardino, Calif
KGY,	ak	100	.....	Olympia, Wash.
KIUL	ak	100	.....	Garden City, Kans.
KPPC	ak	50	9	Pasadena, Calif.
KVSO	ak	100	D	Ardmore, Okla.
KWTN	ak	100	.....	Watertown, S. D.
TGW	ak	10000	.....	Guatemala City
WALR	ak	100	.....	Zanesville, Ohio
WBAX	ae	100	.....	Wilkes Barre, Pa.
WBBL	ak	100	S	Richmond, Va.
WBRB	ak	100	3	Red Bank, N. J.
WCOL	ak	100	.....	Columbus, Ohio

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

				Heard	Logged	Reported	Verified
WCRW	ae	100	4	Chicago, Ill.			
WEBQ	ae	100	6(.25)	Harrisburg, Ill.			
WEDC	ae	100	4	Chicago, Ill.			
WFAS	ak	100	3	White Plains, N. Y.			
WFOY	z	100	P	St. Augustine, Fla.			
WGBB	ae	100	3	Freeport, N. Y.			
WGCM	ae	100	(.25)	Gulfport, Miss.			
WGNV	ak	100	3	Chester, N. Y.			
WHBF	ak	100	(.25)	Rock Island, Ill.			
WHBU	ak	100	(.25)	Anderson, Ind.			
WIBU	ak	100	(.25)	Poynette, Wis.			
WJBY	ak	100	....	Gadsden, Ala.			
WJEM	ae	100	D	Hagerstown, Md.			
WJIM	z	100	(.25)	Lansing, Mich.			
WJW	ae	100	(.25)	Akron, Ohio			
WKOK	ak	100	....	Sunbury, Pa.			
WMBG	ak	100	C(.25)	Richmond, Va.			
WMFG	z	100	....	Hibbing, Minn.			
WMFN	ak	100	....	Clarksdale, Miss.			
WOCL	ak	50	....	Jamestown, N. Y.			
WOMT	ak	100	....	Manitowoc, Wis.			
WPAX	ak	250	D	Thomasville, Ga.			
WSAY	z	100	DP	Rochester, N. Y.			
WSBC	ae	100	4	Chicago, Ill.			
WSIX	ak	100	Y	Springfield, Tenn.			
WSOC	ak	100	N(.25)	Charlotte, N. C.			
WTAX	ak	100	....	Springfield, Ill.			
XEAT	z	50	....	Hidalgo, Chih.			
XEE	z	50	....	Durango, Dgo.			
XEFV	ak	100	....	Juarez, Chih.			
XETH	ak	100	....	Puebla, Pue.			
.....	z	100	P	Lima, Ohio			

1220 kcys. (245.8) 1230

CMJE	z	50	....	Camaguey, Cuba			
KFKU	ae	1000	a(5)	Lawrence, Kans.			
KTW	ak	1000	S2	Seattle, Wash.			
KWSC	ae	1000	2(2)	Pullman, Wash.			
TIVCA	ak	....	1225	San Jose, C. R.			
WCAD	ak	500	D	Canton, N. Y.			
WCAE	ak	1000	R(5)	Pittsburgh, Pa.			
WDAE	ae	1000	C(2.5)	Tampa, Fla.			
WREN	ak	1000	Ba(5)	Lawrence, Kas.			
XETF	ak	12	....	Veracruz, Ver.			

1230 kcys. (243.8) 1240

CMCB	ak	150	....	Havana, Cuba			
KGBX	ak	500	....	Springfield, Mo.			
KGGM	ak	250	(.5)	Albuquerque, N. M.			
KYA	ak	1000	N	San Francisco, Calif.			
WFBM	ae	1000	C(5)	Indianapolis, Ind.			
WNAC	ak	1000	C(2.5)	Boston, Mass.			
XEFJ	ak	100	....	Monterrey, N. L.			
YNOP	z	100	....	Managua, Nic.			

1240 kcys. (241.8) 1250

CJCB	ak	1000	F	Sydney, N. S.			
CMHB	z	50	....	Sancti Spiritus, Cuba			
KGCU	ak	250	1	Mandan, N. D.			
KLPM	ak	250	1	Minot, N. D.			
KTAT	ak	1000	....	Fort Worth, Texas			
KTFI	ae	1000	....	Twin Falls, Idaho			
WKAQ	ae	1000	....	San Juan, P. R.			
WXYZ	ak	1000	B	Detroit, Mich.	99.00 229		
XEAC	z	250	....	Tijuana, L. C.			
XEAL	z	100	....	Mexico City, D. F.			
XEKL	z	500	....	Leon, Guan.			
XELA	z	50	Saltillo, Coah.			
XEME	z	15	Merida, Yuc.			

1250 kcys. (239.9) 1267

CMKC	ak	150	Santiago, Cuba			
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

				Heard	Logged	Reported	Verified
KFOX	ae	1000	....	Long Beach, Calif.			
WCAL	ah	1000	2(2.5)	Northfield, Minn.			
WDSU	ak	1000	....	New Orleans, La.			
WHBI	ak	1000	a(2.5)	Newark, N. J.			
WLB	ak	1000	2	Minneapolis, Minn.			
WNEW	ae	1000	a(2.5)	Newark, N. J.			
WTCN	ak	1000	2(5)	Minneapolis, Minn.			

1260 keys. (238.0) 238

CFRN	ak	100	F	Edmonton, Alta.			
KGVO	ak	1000	....	Missoula, Mont.			
KOIL	ak	1000	B(2.5)	Council Bluffs, Ia.			
KPAC	ak	500	D	Fort Arthur, Texas			
KRGV	ak	500	....	Weslaco, Texas			
KUOA	ak	1000	D	Fayetteville, Ark.			
KVOA	ak	500	....	Tucson, Ariz.			
WHIO	ae	1000	R	Dayton, Ohio			
WNBX	ak	1000	....	Springfield, Vt.			
WTOC	ae	1000	C	Savannah, Ga.			

1270 keys. (236.1) 236

CMHD	dk	250	....	Caibarien, Cuba			
KGCA	ak	100	2D	Decorah, Iowa			
KOL	ae	1000	C(2.5)	Seattle, Wash.			
KVOR	ae	1000	C	Colorado Sp'gs. Colo.			
KWLC	ak	100	2D	Decorah, Iowa			
WASH	ak	500	aN	Grand Rapids, Mich.			
WFBR	ae	500	R	Baltimore, Md.			
WJDX	ae	1000	N(2.5)	Jackson, Miss.			
WOOD	ak	500	aN	Grand Rapids, Mich.			
XEG	z	200	....	Ensenada, L. C.			
XFB	ak	250	....	Jalapa, Ver.			
YNLF	z	20	1275	Managua, Nic.			

25-mile

1280 keys. (234.2) 234

KFBB	ae	1000	(2.5)	Great Falls, Mont.			
WCAM	ae	500	1	Camden, N. J.			
WCAP	ae	500	1	Asbury Park, N. J.			
WDOD	ak	1000	C(5)	Chattanooga, Tenn.			
WIBA	ae	1000	N(5)	Madison, Wis.			
WORC	ak	500	C	Worcester, Mass.			
WRR	ak	500	....	Dallas, Texas			
WTNJ	ak	500	1	Trenton, N. J.			
XEMX	z	12	....	Mexico City, D. F.			

1290 keys. (232.4) 232

KDYL	ak	1000	NX	Salt Lake City, Utah			
KLCN	ak	100	D	Blytheville, Ark.			
KTRH	ak	1000	C(5)	Houston, Texas			
WEBC	ae	1000	N(5)	Superior, Wis.			
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.			
WNBZ	z	100	D	Saranac Lake, N. Y.			
WNEL	ak	1000	(2.5)	San Juan, P. R.			

1300 keys. (230.6) 230

KALE	ak	500	3C	Portland, Ore.			
KFAC	ak	1000	....	Los Angeles, Calif.			
KFH	ak	1000	C	Wichita, Kans.			
KFJR	ag	500	3	Portland, Ore.			
WBBR	ae	1000	1	Brooklyn, N. Y.			
WEVD	ak	1000	1	New York, N. Y.			
WFAB	ae	1000	1	New York, N. Y.			
WFBC	ak	1000	(5)N	Greenville, S. C.			
WHAZ	ae	500	1	Troy, N. Y.			
WHBL	ae	500	....	Sheboygan, Wls.			
WIOD	ak	1000	N	Miami, Fla.			

1325

1310 keys. (228.9) 228

CHCK	ak	50	Charlottetown, P.E.I			
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

					Heard	Logged	Reported	Verified
CJKL	ak	1000	F	Kirkland Lake, Ont.				
CJLS	ak	100	...	Yarmouth, N. S.				
CKCV	ak	100	F	Quebec, Que.				
KCRJ	ak	100	D	Jerome, Ariz.				
KFPL	dk	100	(.25)	Dublin, Texas				
KFXR	ak	100	(.25)	Oklahoma City, Okl.				
KFYO	dk	100	(.25)	Lubbock, Texas				
KGCX	ak	100	(.25)	Wolf Point, Mont.				
KGEZ	aj	100	...	Kalispell, Mont.				
KGFW	ak	100	...	Kearney, Neb.				
KINY	ak	100	...	Juneau, Alaska				
KIT	ak	100	(.25)	Yakima, Wash.				
KIUJ	ak	100	...	Santa Fe, N. Mex.				
KMED	ck	100	(.25)	Medford, Ore.				
KPDN	z	100	DP	Pampa, Texas				
KRMD	ak	100	...	Shreveport, La.				
KROC	z	100	...	Rochester, Minn.				
KTSM	ak	100	...	El Paso, Texas				
KVOL	ak	100	...	Lafayette, La.				
KXRO	ak	100	...	Aberdeen, Wash.				
WAML	ak	100	...	Laurel, Miss.				
WBEO	ae	100	...	Marquette, Mich.				
WBOW	ak	100	(.25)	Terre Haute, Ind.				
WBRE	ak	100	...	Wilkes Barre, Pa.				
WCLS	ak	100	...	Joliet, Ill.				
WCMI	z	100	...	Ashland, Ky.				
WDAH	ak	100	S	El Paso, Texas				
WEBR	ae h	100	(.25)	Buffalo, N. Y.				
WEMP	z	100	D	Milwaukee, Wis.				
WEXL	ak	50	...	Royal Oak, Mich.				
WFBG	ae	100	3	Altoona, Pa.				
WFDG	mk	100	...	Flint, Mich.				
WGH	aj	100	(.25)	Newport, News, Va.				
WHAT	ak	100	4	Philadelphia, Pa.				
WJAC	ae	100	3	Johnstown, Pa.				
WLAK	z	100	P	Lakeland, Fla.				
WLBC	ak	100	6(.25)	Muncie, Ind.				
WLNH	ak	100	...	Laconia, N. H.				
WMBO	ak	100	...	Auburn, N. Y.				
WMI F	ak	250	D	Plattsburg, N. Y.				
WNBH	ak	100	(.25)	New Bedford, Mass.				
WOL	ak	100	...	Washington, D. C.				
WRAW	ak	100	...	Reading, Pa.				
WROL	ak	100	(.25)	Knoxville, Tenn.				
WSAJ	ae	100	...	Grove City, Pa.				
WSGN	ak	100	(.25)	Birmingham, Ala.				
WSJS	ak	100	C	Winston-Salem, N.C.				
WTAL	ak	100	...	Tallahassee, Fla.				
WTEL	ce	100	4	Philadelphia, Pa.				
WTJS	ak	100	(.25)	Jackson, Tenn.				
WTRC	ak	100	6(.25)	Elkhart, Ind.				
XEAG	z	10	...	Cordoba, Ver.				
XECW	z	10	...	Mexico City, D. F.				
XEFW	ak	250	...	Tampico, Tams.				
XETB	ak	125	...	Torreón, Coah.				
XEX	ak	125	...	Monterrey, N. L.				
XFA	z	5	...	Aguascalientes, Ags.				

1320 kcys. (227.1) 1320

CMOX	ak	200	...	Havana, Cuba				
KGHF	ak	500	...	Pueblo, Colo.				
KGMB	ak	1000	C	Honolulu, T. H.				
KID	ae	500	(1)	Idaho Falls, Idaho				
KRNT	ak	500	C(1)	Des Moines, Iowa				
WADC	ae	1000	C(2.5)	Akron, Ohio				
WORK	ak	1000	...	York, Pa.				
WSMB	ak	500	N	New Orleans, La.				

1330 kcys. (225.4) 1330

CMHK	z	250	...	Cruces, Cuba				
KGB	ag	1000	C(2.5)	San Diego, Calif.				
KMO	ak	250	...	Tacoma, Wash.				
KSCJ	aj	1000	C(2.5)	Sioux City, Iowa				
WDRG	ae	1000	C(5)	Hartford, Conn.				

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WSAI ak 1000 R(2.5) Cincinnati, Ohio Heard ⁷⁻²⁵
 WTAQ ae 1000 Green Bay, Wis. Logged Reported Verified

1340 kcys. (223.7) 1253

CMJL z 75 Camaguey, Cuba
 HRN z 50 Tegucigalpa, Hond.
 KGDY ak 250 D Huron, S. D.
 KGIR ak 1000 N(2.5) Butte, Mont.
 KGNO ak 250 Dodge City, Kans.
 WCOA ak 500 C Pensacola, Fla.
 WFEA ae 500 C(1) Manchester, N. H.
 WSPD ae 1000 C(5) Toledo, Ohio
 XEFE z 250 NuevoLaredo, Tams.
 XFD z 350 Jalapa, Ver.

1350 kcys. (222.1) 1265

CMCA z 250 Havana, Cuba
 KIDO ak 1000 (.25) Boise, Idaho
 KWK ak 1000 B(5) St. Louis, Mo.
 WAWZ ae 500 1(1) Zarephath, N. J.
 WBNX ae 250 1 New York, N. Y.

1360 kcys. (220.4) 1372

CMJH dk 50 Ciego de Avila, Cuba
 KCRC ak 250 Enid, Okla.
 KGER ak 1000 Long Beach, Calif.
 WCSC ak 500 (1)N Charleston, S. C.
 WFBL ak 1000 C(5) Syracuse, N. Y. 7-25 230
 WGES ae 500 1 Chicago, Ill.
 WQBC ak 1000 D Vicksburg, Miss.
 WSBT ak 500 1 South Bend, Ind.

1370 kcys. (218.8) 744-9-6 ¹²⁸⁵

CKCW ak 100 F Moncton, N. B.
 CMGE ak 150 Cardenas, Cuba
 HIZ z 10 Trujillo, D. R.
 KAST ak 100 D Astoria, Ore.
 KCMO ak 100 Kansas City, Mo.
 KELD z 100 El Dorado, Ark.
 KERN ak 100 Bakersfield, Calif.
 KFGO ak 100 Boone, Iowa
 KFJM ak 100 (.25) Grand Forks, N. D.
 KFJZ ae 100 X Fort Worth, Texas
 KFOR ak 100 D Longview, Texas
 KGAR ae 100 (.25) Tucson, Ariz.
 KGFG bk 100 Oklahoma City, Okla.
 KGFL ak 100 4 Roswell, N. M.
 KGKL ak 100 (.25) San Angelo, Texas
 KICA ak 100 4 Clovis, N. M.
 KIUP ak 100 Durango, Colo.
 KLUF z 100 (.25) Galveston, Texas
 KMAC ak 100 5 San Antonio, Tex.
 KONO ak 100 5 San Antonio, Tex.
 KRE ak 100 (.25) Berkeley, Calif.
 KRKO ak 50 1 Everett, Wash.
 KSLM ak 100 Salem, Ore.
 KUJ ak 100 Walla Walla, Wash.
 KVL ak 100 1 Seattle, Wash.
 KWYO ak 100 Sheridan, Wyo.
 WABY aj 100 Albany, N. Y.
 WAGF ak 250 D Dothan, Ala.
 WATL ak 100 Atlanta, Ga.
 WBNY z 100 2(.25) Buffalo, N. Y.
 WBTM ak 100 (.25) Danville, Va.
 WCBM ae 100 (.25) Baltimore, Md.
 WDAS ae 100 (.25) Philadelphia, Pa.
 WEOA z 100 P Evansville, Ind.
 WGL ae 100 C Fort Wayne, Ind.
 WGRC z 250 DP New Albany, Ind.
 WHBO ak 100 Memphis, Tenn.
 WHDF ak 100 (.25) Calumet, Mich.
 WHLB z 100 P Virginia, Minn.
 WIBM ak 100 (.25) Jackson, Mich.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

				Heard	Logged	Reported	Verified
WLLH	ak	100	(.25)	Lowell, Mass.			
WMBR	ak	100	C(.25)	Jacksonville, Fla.			
WMFD	ak	100	D	Wilmington, N. C.			
WMFO	ak	100	D	Decatur, Ala.			
WMIN	z	100	P	St. Paul, Minn.			
WOC	ak	100	C(.25)	Davenport, Iowa			
WPAY	ak	100	.....	Portsmouth, Ohio			
WPFB	ak	100	.....	Hattiesburg, Miss.			
WODM	ae	100	.....	St. Albans, Vt.			
WRAK	ak	100	(.25)	Williamsport, Pa.			
WRDO	ae	100	.....	Augusta, Maine			
WRJN	ak	100	(.25)	Racine, Wis.			
WSVS	ak	50	D2	Buffalo, N. Y.			
XEFZ	ak	100	.....	Mexico City, D. F.			
XEI	ak	125	.....	Morelia, Mich.			
XEZZ	z	100	.....	San Luis Potosi, SLP.			
.....	z	100	DP	Champaign, Ill.			

1380 kcys. (217.3)

CMCR	z	150	.....	Havana, Cuba.			
KOH	ak	500	C	Reno, Nev.			
KOV	ae	500	.....	Pittsburgh, Pa.			
WALA	af	500	C(1)	Mobile, Ala.			
WKBH	ae	1000	.....	LaCrosse, Wis.			
WNBC	mk	250	D	New Britain, Conn.			
WSMK	ak	200	C	Dayton, Ohio			

1390 kcys. (215.7)

CMJC	z	150	.....	Camaguey, Cuba			
HHH	ak	15	1395	San Ped. de Macoris			
KLRA	ae	1000	C(2.5)	Little Rock, Ark.			
KOOS	ae	250	D	Marshfield, Ore.			
KOY	ae	500	(1)	Phoenix, Ariz.			
WHK	ae	1000	C(2.5)	Cleveland, Ohio			

1400 kcys. (214.2)

CMGC	z	100	.....	Matanzas, Cuba			
CMKR	z	100	.....	Santiago, Cuba			
KLO	ak	500	N	Ogden, Utah			
KTUL	ak	500	C(1)	Tulsa, Okla.			
TGX	ak	250	.....	Guatemala City, Gt.			
WARD	ak	500	2	Brooklyn, N. Y.			
WBBC	ae	500	2(1)	Brooklyn, N. Y.			
WEGL	z	500	P	Brooklyn, N. Y.			
WIRE	ak	500	R(1)	Indianapolis, Ind.			
WLTH	ak	500	2	Brooklyn, N. Y.			
WVFW	ak	500	2	Brooklyn, N. Y.			

1410 kcys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.			
CKMO	ag	100	5F	Vancouver, B. C.			
KGNC	ae	1000	(2.5)	Amarillo, Texas			
WAAB	ak	500	C	Boston, Mass.			
WBCM	ae	500	.....	Bay City, Mich.			
WHIS	ak	250	(.5)	Bluefield, W. Va.			
WROK	ak	500	.....	Rockford, Ill.			
WSFA	ak	500	C(1)	Montgomery, Ala.			

1420 kcys. (211.1)

CKGB	ak	100	F	Timmins, Ont.			
CMCO	z	250	.....	Havana, Cuba.			
KABC	ak	100	(.25)	San Antonio, Texas			
KABR	ak	100	.....	Aberdeen, S. Dak.			
KALB	z	100	D	Alexandria, La.			
KBPS	aj	100	4	Portland, Ore.			
KCMC	ak	100	.....	Texarkana, Ark.			
KEUB	z	100	P	Price, Utah.			
KFIZ	ak	100	.....	Fond du Lac, Wis.			
KGFF	ak	100	(.25)	Shawnee, Okla.			
KGGC	ak	100	.....	San Francisco, Cal.			

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

				Heard	Logged	Reported	Verified
KGIW	ak	100	1	Alamosa, Colo.			
KHBC	z	100	XZ	Hilo, T. H.			
KIDW	ak	100	1	Lamar, Colo.			
KIUN	ak	100	....	Pecos, Texas			
KNET	z	100	D	Palestine, Texas			
KORE	ae	100	....	Eugene, Ore.			
KRBC	z	100	P	Abilene, Tex.			
KRLC	ak	100	....	Lewiston, Idaho			
KRLH	z	100	D	Midland, Tex.			
KUMA	ak	100	....	Yuma, Ariz.			
KWBG	ak	100	....	Hutchinson, Kans.			
KXL	ak	100	4(.25)	Portland, Ore.			
WACO	ak	100	C	Waco, Texas			
WAGM	ae	100	....	Presque Isle, Maine			
WAZL	ak	100	2	Hazleton, Pa.			
WCBS	ak	100	....	Springfield, Ill.			
WCHV	ak	100	3(.25)	Charlottesville, Va.			
WEED	ak	100	3 X	Rocky Mount, N. C.			
WEHS	ak	100	a	Cicero, Ill.			
WELL	ak	100	....	Battle Creek, Mich.			
WGPC	ak	100	....	Albany, Ga.			
WHDL	ak	100	D	Olean, N. Y.			
WHFC	ae	100	a	Cicero, Ill.			
WILM	aj	100	2	Wilmington, Del.			
WJBO	ak	100	....	Baton Rouge, La.			
WJBR	z	100	P	Gastonia, N. C.			
WJMS	ak	100	....	Ironwood, Mich.			
WKBI	ak	100	a	Cicero, Ill.			
WLAP	ak	100	(.25)	Lexington, Ky.			
WLBF	ak	100	....	Kansas City, Kan.			
WLEU	ak	100	(.25)	Erle, Pa.			
WMAS	ak	100	C(.25)	Springfield, Mass.			
WMBC	ae	100	(.25)	Detroit, Mich.			
WMBH	ak	100	(.25)	Joplin, Mo.			
WMFJ	ak	100	....	Daytona Beach, Fla.			
WMSD	ak	100	....	Sheffield, Ala.			
WPAD	ak	100	(.25)	Paducah, Ky.			
WPAR	ak	100	....	Parkersburg, W.Va.			
WPRP	z	100	P(.25)	Ponce, P. R.			
XEAZ	z	7	....	Guanaajuato, Gto.			
XEFB	ak	100	....	Monterrey, N. L.			
.....	z	100	DP	Chattanooga, Tenn.			

1430 keys. (209.7)

CMJP	ak	75	....	Camaguey, Cuba			
KECA	ah	1000	(5) B	Los Angeles, Calif.			
KGNF	ak	1000	D	North Platte, Neb.			
KSO	ak	500	B (1)	Des Moines, Iowa			
WBNS	ae	500	C (1)	Columbus, Ohio			
WHEC	ae	500	C (1)	Rochester, N. Y.			
WHP	ak	500	C (1)	Harrisburg, Pa.			
WNBR	ae	500	(1)	Memphis, Tenn.			
WOKO	aj	500	C (1)	Albany, N. Y.			

1440 keys. (208.2)

CMOA	z	150	....	Havana, Cuba			
HP50	z	25	....	Colon, Panama			
KDFN	ak	500	....	Casper, Wyo.			
KLS	ag	250	D	Oakland, Calif.			
KXYZ	ak	1000	....	Houston, Texas			
TIFS	z	7.5	(1441)	Cartago, C. R.			
WBIG	ae	500	C (1)	Greensboro, N. C.			
WCBA	aj	500	a	Allentown, Pa.			
WMBD	ak	500	C (1)	Peoria, Ill.			
WSAN	aj	500	a	Allentown, Pa.			
XEFI	ae	250	....	Chihuahua, Chih.			

1450 keys. (206.8)

CFCT	ae	75	....	Victoria, B. C.			
CHGS	ae	50	F	Summerside, P.E.I.			
KIEM	ak	500	....	Eureka, Calif.			
KTBS	ak	1000	N	Shreveport, La.			
WGAR	ak	500	B (1)	Cleveland, Ohio			

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

					Heard	Logged	Reported	Verified
WHOM	ae	250	.....	Jersey City, N.J.				
WSAR	ae	1000	.....	Fall River, Mass.				
WTFI	ak	500	.....	Athens, Ga.				

1460 kcys. (205.4)

CMCU	z	150	.....	Havana, Cuba.				
CMKF	z	50	.....	Holguin, Cuba.				
KSTP	ak	25000	N	St. Paul, Minn.				
WJSV	ak	10000	C	Washington, D. C.				

1470 kcys. (204.0)

CMOK	z	150	.....	Havana, Cuba				
KGA	ak	5000	B	Spokane, Wash.				
WLAC	ak	5000	C	Nashville, Tenn.				

1480 kcys. (202.6)

KOMA	ak	5000	C	Oklahoma City, Okla.				
WKBW	ck	5000	C	Buffalo, N. Y.				

1490 kcys. (201.2)

KFBK	ak	5000	C	Sacramento, Calif.				
WCKY	ae	5000	B	Covington, Ky.				

1500 kcys. (199.9)

CJIC	ak	100	.....	Sault Ste. Marie, Ont.				
CMCX	z	150	.....	Havana, Cuba				
KBIX	z	100	P	Muskogee, Okla.				
KBST	z	100	P	Big Spring, Tex.				
KDB	ak	100	C	Santa Barbara, Cal				
KGFI	ak	100	(.25)	Corpus Christi, Tex				
KGFK	ak	100	Y	Moorhead, Minn.				
KGKB	ak	100	.....	Tyler, Texas				
KGKY	ak	100	(.25)	Scottsbluff, Neb.				
KNEL	ak	100	D	Brady, Texas				
KNOW	ak	100	.....	Austin, Texas				
KOTN	ak	100	D	Pine Bluff, Ark.				
KPLC	ak	100	.....	Lake Charles, La.				
KPLT	z	100	DP	Paris, Texas				
KPO	ak	100	(.25)	Wenatchee, Wash.				
KRNR	z	100	D	Roseburg, Ore.				
KTEP	z	100	P	El Paso, Texas				
KVOE	ak	100	.....	Santa Ana, Calif.				
KXO	ae	100	.....	El Centro, Calif.				
WCNW	ak	100	1 (.25)	Brooklyn, N. Y.				
WDNC	ae	100	C	Durham, N. C.				
WGAL	ae	100	(.25)	Lancaster, Pa.				
WHBB	z	100	D	Selma, Ala.				
WHEF	ak	100	(.25)	Kosciusko, Miss.				
WJBK	ae	100	(.25)	Detroit, Mich.				
WKBB	ak	100	(.25)	E. Dubuque, Ill.				
WKBV	ak	100	.....	Richmond, Ind.				
WKBZ	ak	100	(.25)	Muskegon, Mich.				
WKEU	ak	100	D	Griffin, Ga.				
WMBQ	ae	100	1	Brooklyn, N. Y.				
WMEX	ak	100	(.25)	Boston, Mass.				
WNBF	ae	100	C	Binghamton, N. Y.				
WNLC	z	100	DP	New London, Conn.				
WOPI	ae	100	.....	Bristol, Tenn.				
WRDW	ak	100	.....	Augusta, Ga.				
WRGA	ak	100	(.25)	Rome, Ga.				
WSYB	ak	100	.....	Rutland, Vt.				
WTMV	ak	100	.....	East St. Louis, Ill.				
WWRL	ak	100	1 (.25)	Woodside, N. Y.				
WWSW	ae	100	(.25)	Pittsburgh, Pa.				
.....	z	100	P	Salt Lake City, Utah				

1510 kcys. (198.6)

CFRC	ak	100	.....	Kingston, Ont.				
CKCR	ak	100	.....	Waterloo, Ont.				

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1530 keys. (196.0)

W1XBS z 1000 Waterbury, Conn.
W9XBY ak 1000 Kansas City, Mo.

1550 keys. (193.4)

W2XR z 1000 Long Isl. City, N.Y.
W6XAI ak 1000 Bakersfield, Calif.

Heard	Logged	Reported	Verified

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.

<p>Second Column Symbols</p> <p>a Verifies reception for return postage.</p> <p>b Verifies only occasionally.</p> <p>c Does not verify.</p> <p>d Verification 10c: letter 25c.</p> <p>e Sends Ekko stamp for 10c.</p> <p>f Sends Ekko stamp for 5c.</p> <p>g Sends Ekko stamp for postage.</p> <p>h Sends own station stamp for 10c.</p> <p>i Sends own station stamp for 5c.</p> <p>j Sends own station stamp for postage.</p>	<p>k Has no stamps.</p> <p>m Verifies for 5c.</p> <p>n Weather or time only.</p> <p>z No information available.</p> <p>Fourth Column Symbols</p> <p>B National "Blue" network.</p> <p>C Columbia network.</p> <p>D Day time only.</p> <p>Dn Day time with occasional evening hours.</p> <p>F Canadian Radio Brdstg. Commission.</p> <p>N National "Red" and "Blue" networks.</p>	<p>P Has construction permit only.</p> <p>R National "Red" network.</p> <p>S Sunday only.</p> <p>Sy Synchronized.</p> <p>X Has permit to increase power.</p> <p>Y Has permit to change location.</p> <p>Z Has permit to change frequency.</p> <p>a-b-c. Small letters show stations using same transmitter.</p> <p>1-2-3. Figures denote stations sharing time.</p> <p>..... No information</p>
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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	Lowell	CALIFORNIA	KHI
Birmingham	KSUN 1200 100	Bakersfield	900 1000 C
WAPI 1140 5000 N	Phoenix	KERN 1370 100 C	KRKD 1120 500
WBRC 930 1000 C	KOY 1390 500	W6XAI 1550 1000	Modesto
WSGN 1310 100	KTAR 620 1000 N	Berkeley	KTRB 740 250
Decatur	Tucson	KRE 1370 100	Oakland
WMFO 1370 100	KGAR 1370 100	Beverly Hills	KLS 1440 250
Dothan	KVOA 1260 500	KMPC 710 500	KLX 880 1000
WAGF 1370 250	Yuma	Chico	KROW 930 1000
Gadsden	KUMA 1420 100	KHSL 950 250	Pasadena
WJBY 1210 100	ARKANSAS	Del Monte	KPPC 1210 50
Mobile	Blytheville	KDON 1210 100	Redding
WALA 1380 500 C	KLCN 1290 100	El Centro	KVGV 1200 100
Montgomery	El Dorado	KXO 1500 100	Sacramento
WSFA 1410 500 C	KELD 1370 100	Eureka	KFBK 1490 5000 C
Selma	Fayetteville	KIEM 1450 500	San Bernardino
WHBB 1500 100	KUOA 1260 1000	Fresno	KFXM 1210 100
Sheffield	Fert Smith	KMJ 580 1000 C	San Diego
WMSD 1420 100	KPPW 1210 100	Glendale	KFSD 600 1000 B
Tuscaloosa	Hot Springs	KIEV 850 250	KGB 1330 1000 C
WJRD 1200 100	KTHS 1060 10000 N	Hollywood	San Francisco
ALASKA	Jonesboro	KFWB 950 1000	KGGC 1420 100
Anchorage	KBTM 1200 100	KMTR 570 1000	KGO 790 7500 B
KFQD 780 250	Little Rock	KNX 1050 50000	KJBS 1070 500
Juneau	KARK 890 250	Long Beach	KPO 680 50000 R
KINY 1310 100	KGHI 1200 100	KFOX 1250 1000	KSFO 560 1000
Metchikan	KLRA 1390 1000 C	KGER 1360 1000	KYA 1230 1000 N
KGBU 900 500	Pine Bluff	Los Angeles	San Jose
ARIZONA	KOTN 1500 100	KECA 1430 1000 B	KOW 1010 1000
Jerome	Kaxarkana	KEHE 780 500	Santa Ana
KCRJ 1310 100	KCMC 1420 100	KFAC 1300 1000	KVOE 1500 100
		KFI 640 50000 R	Santa Barbara
		KFSG 1120 500	KDB 1500 100 C
		KFVD 1000 250	Stockton
		KGFJ 1200 100	KGDM 1100 1000
			KWG 1200 100 C

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p style="text-align: center;">COLORADO</p> <p>Alamosa KGIW 1420 100</p> <p>Colorado Springs KVOR 1270 1000 C</p> <p>Denver KFEL 920 500 KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500</p> <p>Durango KIUP 1370 100</p> <p>Grand Junction KFXJ 1200 100</p> <p>Greeley KFKA 880 500</p> <p>Lamar KIDW 1420 100</p> <p>Pueblo KGFH 1320 500</p> <p>Sterling KGEK 1200 100</p>	<p>Pensacola WCOA 1340 500 C St. Augustine WFOY 1210 100 St. Petersburg WSUN 620 1000 N Tallahassee WTAL 1310 100 Tampa WDAE 1220 1000 C West Palm Beach WJNO 1200 100</p> <p style="text-align: center;">GEORGIA</p> <p>Albany WGPC 1420 100</p> <p>Athens WTFI 1450 500</p> <p>Atlanta WATL 1370 100 WGST 890 500 C WSB 740 50000 N</p> <p>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 Waycross WAYX 1200 100</p> <p style="text-align: center;">HAWAII</p> <p>Hilo KHBC 1420 100 Honolulu KGM B 1320 1000 C KGU 750 2500 N</p> <p style="text-align: center;">IDAHO</p> <p>Boise KIDO 1350 1000 Idaho Falls KID 1320 500 Lewiston KRLC 1420 100 Nampa KFXD 1200 100 Pocatello KSEI 900 250 Twin Falls KTFI 1240 1000</p> <p style="text-align: center;">ILLINOIS</p> <p>Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Champaign 1370 100</p> <p>Chicago WAAF 920 1000 WBBM 770 50000 C WCFL 970 5000 B WCRW 1210 100 WEDC 1210 100 WENR 870 50000 N WGES 1360 500</p>	<p>WGN 720 50000 WJJD 1130 20000 WLS 870 50000 N WMAQ 670 50000 N WMBI 1080 5000 WWSB 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 WRCK 1410 500 Rock Island WHBF 1210 100 Springfield WCBS 1420 100 WTAX 1210 100 Tuscola WDZ 1020 250 Urbana WILL 890 250 Waukegan WCB D 1080 5000</p> <p style="text-align: center;">INDIANA</p> <p>Anderson WHBU 1210 100 Elkhart WTRC 1310 100 Evansville WEOA 1370 100 WGBF 630 500 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 New Albany WGRC 1370 250 Richmond WKBV 1500 100 South Bend WFAM 1200 100 WSBT 1360 500 C Terre Haute WBOW 1310 100 West Lafayette WBAA 890 1000</p> <p style="text-align: center;">IOWA</p> <p>Ames WOI 640 5000 Boone KFGQ 1370 100 Cedar Rapids WMT 600 1000 B</p>	<p>Council Bluffs KOIL 1260 1000 B Davenport WOC 1370 100 C Decorah KGCA 1270 100 KWLC 1270 100 Des Moines KRNT 1320 500 C KSO 1430 500 B WHO 1000 50000 R Iowa City WSUI 880 500 Marshalltown KFJB 1200 100 Shenandoah KFNF 890 500 KMA 930 1000 Stoux City KSCJ 1330 1000 C</p> <p style="text-align: center;">KANSAS</p> <p>Abilene KFBI 1050 5000 Coffeyville KGGF 1010 1000 Dodge City KGNO 1340 250 Garden City KIUL 1210 100 Hutchinson KWBG 1420 100 Kansas City WLB F 1420 100 Lawrence KFKU 1220 1000 WREN 1220 100 B Manhattan KSAC 580 500 Topeka WBW 580 1000 C Wichita KFH 1300 1000 C KANS 1210 100</p> <p style="text-align: center;">KENTUCKY</p> <p>Ashland WCMI 1310 100 Covington WCKY 1490 5000 B Lexington WLAP 1420 100 Louisville WAVE 940 1000 N WHAS 820 50000 C Paducah WPAD 1420 100</p> <p style="text-align: center;">LOUISIANA</p> <p>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</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Shreveport		Ironwood		KMOX 1090 50000 C		NEW MEXICO	
KRMD	1310 100	WJMS	1420 100	KSD	550 1000 R	Albuquerque	
KTBS	1450 1000 N	Jackson		KWK	1350 1000 B	KGGM	1230 250
KWKH	1100 1000 C	WIBM	1370 100	WEW	760 1000	KOB	1180 10000
MAINE		Kalamazoo		WIL	1200 100	Clovis	
Augusta		WKZO	590 1000	Springfield		KICA	1370 100
WRDO	1370 100	Lansing		KGBX	1230 500	Roswell	
Bangor		WJIM	1210 100	KWTO	560 5000	KGFL	1370 100
WABI	1200 100	Lapeer		MONTANA			
WLBZ	620 500 C	WMPC	1200 100	Billings			
Portland		Marquette		KGHL	780 1000 N	Butte	
WCSH	940 1000 R	WBEQ	1310 100	KGIR	1340 1000 N	Great Falls	
Presque Isle		Muskegon		KFBB	1280 1000	Kallispoll	
WAGM	1420 100	WKBZ	1500 100	KGEZ	1310 100	Missoula	
MARYLAND		Key Oak		KGVO	1260 1000	Wolf Point	
Baltimore		WEXL	1310 50	KGCC	1310 100	NEBRASKA	
WBAL	760 2500 B	MINNESOTA		Clay Center			
WBAL	1060 10000 B	Fergus Falls		KMMJ	740 1000	Kearney	
WCAO	600 500 C	KGDE	1200 100	KGFW	1310 100	Lincoln	
WCBM	1370 100	Hibbing		KFAB	770 10000 C	KFOR	1210 100 C
WFBR	1270 500 R	WMFG	1210 100	Norfolk		WJAG	1060 1000
Cumberland		Minneapolis		North Platte		KGNF	1430 1000
WTBO	800 250	WCCO	810 50000 C	Omaha		WAAW	660 500
Frederick		WDGY	1180 1000	WOW	590 5000 R	WVWV	1400 500
WFMD	900 500	WLB	1250 1000	Scottsbluff		WBYN	1370 100 R
Hagerstown		WTCN	1250 1000	KGKY	1500 100	WEBR	1310 100
WJEJ	1210 100	Moorhead		NEVADA			
MASSACHUSETTS		KGFK	1500 100	Reno		KOH	1380 500 C
Boston		Northfield		NEW HAMPSHIRE			
WAAB	1410 500 C	WCAL	1250 1000	Laconia		WLNH	1310 100
WBZ	990 50000 B	Rochester		Manchester		WFEA	1340 500 C
WCOP	1120 500	KROC	1310 100	Portsmouth		WHEB	740 250
WEEI	590 1000 R	St. Paul		NEW JERSEY			
WHDH	830 1000	KSTP	1460 25000 N	Asbury Park		WACAP	1280 500
WMEX	1500 100	WMIN	1370 100	Atlantic City		WPG	1100 5000 C
WNAC	1230 1000 C	Virginia		Camden		WCAM	1280 500
Fall River		WHLB	1370 100	Jersey City		WAAJ	940 500
WSAR	1450 1000	MISSISSIPPI		WHOM	1450 250	WHOM	1450 250
Lowell		Clarksdale		Newark		WHBI	1250 1000
WLLH	1370 100	WMPN	1210 100	WNEW	1250 1000	WOR	710 50000
Needham		Gulfport		Red Bank		WBRB	1210 100
WORL	920 500	WGCM	1210 100	Trenton		WTNJ	1280 500
New Bedford		Hattiesburg		St. Joseph		Zarephath	
WNBH	1310 100	WPFB	1370 100	KFEQ	680 2500	WAWZ	1350 500
Springfield		Jackson		St. Louis			
WBZA	990 1000 B	WJDX	1270 1000 N	KFUO	550 500		
WMAS	1420 100 C	Kosciusko					
WSPR	1140 500	WHEF	1500 100				
Worcester		Laurel					
WOCR	1280 500 C	WAML	1310 100				
WTAG	580 500 R	Meridian					
MICHIGAN		WCOG	880 500				
Battle Creek		Vicksburg					
WELL	1420 100	WQBC	1360 1000				
Bay City		MISSOURI					
WBCM	1410 500	Cape Girardeau					
Calumet		KFVS	1210 100				
WHDF	1370 100	Columbia					
Detroit		KFRU	630 500				
WJBK	1500 100	Jefferson City					
WJR	750 50000 C	WOS	630 500				
WMBC	1420 100	Joplin					
WWJ	920 1000 R	WMBH	1420 100				
WX YZ	1240 1000 B	Kansas City					
East Lansing		KCMO	1370 100				
WKAR	850 1000	KMBC	950 1000 C				
Flint		WDAF	610 1000 R				
WFDF	1310 100	WHB	860 1000				
Grand Rapids		W9XBY	1530 1000				
WASH	1270 500 N	St. Joseph					
WOOD	1270 500 N	KFEQ	680 2500				
		St. Louis					
		KFUO	550 500				

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Troy WHAZ 1300 500</p> <p>Utica WIBX 1200 100 C</p> <p>White Plains WFAS 1210 100</p> <p>Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <hr/> <p>Asheville WVNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C</p> <p>WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Gastonia WJBR 1420 100</p> <p>Greensboro WBIG 1440 500 C</p> <p>High Point WMFR 1200 100</p> <p>Raleigh WPTF 680 5000 N</p> <p>Rocky Mount WEDB 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Winston-Salem WSJS 1310 100 C</p> <hr/> <p style="text-align: center;">NORTH DAKOTA</p> <hr/> <p>Bismarck KFYR 550 1000 N</p> <p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KFJM 1370 100</p> <p>Mandan KGCU 1240 250</p> <p>Minot KLPM 1240 250</p> <hr/> <p style="text-align: center;">OHIO</p> <hr/> <p>Akron WADC 1320 1000 C</p> <p>WJW 1210 100</p> <p>Canton WHBC 1200 100</p> <p>Cincinnati WCPO 1200 100</p> <p>WKRC 550 1000 C</p> <p>WLW 700 500000 N</p> <p>WSAI 1330 1000 R</p> <p>Cleveland WGAR 1450 500 B</p> <p>WHK 1390 1000 C</p> <p>WJAY 610 500</p> <p>WTAM 1070 50000 R</p> <p>Columbus WAIU 640 500</p> <p>WBNS 1430 500 C</p> <p>WCOL 1210 100</p> <p>WOSU 570 750</p> <p>Dayton WHIO 1260 1000 R</p> <p>WSMK 1380 200 C</p> <p>Portsmouth WPAY 1370 100</p> <p>Toledo WSPD 1340 1000 C</p> <p>Youngstown WYOUNG 570 500 C</p>	<p>Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <hr/> <p>Ada KADA 1210 100</p> <p>Ardmore KVSO 1200 100</p> <p>Elk City KASA 1210 100</p> <p>Enid KCRC 1360 250</p> <p>Muskogee KBIX 1500 100</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma KFXR 1310 100</p> <p>KGFG 1370 100</p> <p>KOMA 1480 5000 C</p> <p>WKY 900 1000 N</p> <p>Ponca City WBBW 1200 100</p> <p>Shawnee KGFF 1420 100</p> <p>Tulsa KTUL 1400 500 C</p> <p>KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;">OREGON</p> <hr/> <p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100</p> <p>Klamath Falls KFJI 1210 100</p> <p>Marshfield KOOS 1390 250</p> <p>Medford KMED 1310 100</p> <p>Portland KALE 1300 500 C</p> <p>KBPS 1420 100</p> <p>KEK 1180 5000 N</p> <p>KFJR 1300 500</p> <p>KGIN 620 1000 R</p> <p>KOIN 940 1000 C</p> <p>KWJJ 1040 500</p> <p>KXL 1420 100</p> <p>Roseburg KRNR 1500 100</p> <p>Salmon KSLM 1370 100</p> <hr/> <p style="text-align: center;">PENNSYLVANIA</p> <hr/> <p>Allentown WCBA 1440 500</p> <p>WSAN 1440 500</p> <p>Altoona WFBG 1310 100</p> <p>Easton WEST 1200 100</p> <p>Erie WLEU 1420 100</p> <p>Glenside WIBG 970 100</p> <p>Greensburg WHJB 620 250</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C</p> <p>WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p>	<p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100</p> <p>Philadelphia KYW 1020 10000 R</p> <p>WCAU 1170 50000 C</p> <p>WDAS 1370 100</p> <p>WFIL 560 1000 B</p> <p>WHAT 1310 100</p> <p>WIP 610 1000</p> <p>WPEN 920 250</p> <p>WRAX 920 250</p> <p>WTGL 1310 100</p> <p>Pittsburgh KDKA 980 50000 B</p> <p>KOV 1380 500</p> <p>WCAE 1220 1000 R</p> <p>WJAS 1290 1000 C</p> <p>WWSW 1500 100</p> <p>Reading WEEU 830 1000</p> <p>WRAW 1310 100</p> <p>Scranton WGBI 880 500</p> <p>WQAN 880 250</p> <p>Sunbury WKOK 1210 100</p> <p>Wilkes-Barre WBAX 1210 100</p> <p>WBRE 1310 100</p> <p>Williamsport WRAK 1370 100</p> <p>York WORK 1320 1000</p> <hr/> <p style="text-align: center;">PUERTO RICO</p> <hr/> <p>Ponce WPRP 1420 100</p> <p>San Juan WKAQ 1240 1000</p> <p>WNEL 1290 1000</p> <hr/> <p style="text-align: center;">RHODE ISLAND</p> <hr/> <p>Newport WNRI 1200 100</p> <p>Providence WEAN 780 500 C</p> <p>WJAR 890 500 R</p> <p>WPRO 630 250</p> <hr/> <p style="text-align: center;">SOUTH CAROLINA</p> <hr/> <p>Anderson WAIM 1200 100</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p> <hr/> <p style="text-align: center;">SOUTH DAKOTA</p> <hr/> <p>Aberdeen KABR 1420 100</p> <p>KBrookings FDY 780 1000</p> <p>KHuron GDY 1340 250</p> <p>Pierre KGFX 630 200</p> <p>Rapid City WCAT 1200 100</p>	<p>Sioux Falls KSOO 1110 2500</p> <p>Vermillion KUSD 890 500</p> <p>Watertown KWTN 1210 100</p> <p>Yankton WNAX 570 1000 C</p> <hr/> <p style="text-align: center;">TENNESSEE</p> <hr/> <p>Bristol WOPI 1500 100</p> <p>Chattanooga WDOD 1280 1000 C</p> <p>Jackson WTJS 1310 100</p> <p>Knoxville WNOX 1010 1000 C</p> <p>WROL 1310 100</p> <p>Memphis WHBQ 1370 100</p> <p>WMC 780 1000 N</p> <p>WNBR 1430 500</p> <p>WREC 600 1000 C</p> <p>Nashville WLAC 1470 5000 C</p> <p>WSM 650 50000 N</p> <p>Springfield WSIX 1210 100</p> <hr/> <p style="text-align: center;">TEXAS</p> <hr/> <p>Abilene KRBC 1420 100</p> <p>Amarillo KGNC 1410 1000</p> <p>Austin KNOW 1500 100</p> <p>Beaumont KFDM 560 500</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 100</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KGFI 1500 100</p> <p>Dallas KRLD 1040 10000 C</p> <p>WFAA 800 50000 N</p> <p>WRR 1280 500</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KTEP 1500 100</p> <p>KTSM 1310 100</p> <p>WDAH 1310 100</p> <p>Fort Worth KFJZ 1370 100</p> <p>KTAT 1240 1000</p> <p>WBAP 800 50000 N</p> <p>Galveston KLUF 1370 100</p> <p>Houston KPRC 920 1000 N</p> <p>KTRH 1290 1000 C</p> <p>KXYZ 1440 1000</p> <p>Longview KFRO 1370 100</p> <p>Lubbock KFYO 1310 100</p> <p>Midland KRLH 1420 100</p> <p>Palostine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Paris</td><td></td><td></td></tr> <tr><td>KPLT</td><td>1500</td><td>100</td></tr> <tr><td>Pecos</td><td></td><td></td></tr> <tr><td>KIUN</td><td>1420</td><td>100</td></tr> <tr><td>Port Arthur</td><td></td><td></td></tr> <tr><td>KPAC</td><td>1260</td><td>500</td></tr> <tr><td>San Angelo</td><td></td><td></td></tr> <tr><td>KGKL</td><td>1370</td><td>100</td></tr> <tr><td>San Antonio</td><td></td><td></td></tr> <tr><td>KABC</td><td>1420</td><td>100</td></tr> <tr><td>KMAC</td><td>1370</td><td>100</td></tr> <tr><td>KONO</td><td>1370</td><td>100</td></tr> <tr><td>KTSA</td><td>550</td><td>1000 C</td></tr> <tr><td>WOAI</td><td>1190</td><td>50000 N</td></tr> <tr><td>Tyler</td><td></td><td></td></tr> <tr><td>KGKB</td><td>1500</td><td>100</td></tr> <tr><td>Waco</td><td></td><td></td></tr> <tr><td>WACO</td><td>1420</td><td>100 C</td></tr> <tr><td>Weslaco</td><td></td><td></td></tr> <tr><td>KRGV</td><td>1260</td><td>500</td></tr> <tr><td>Wichita Falls</td><td></td><td></td></tr> <tr><td>KGKO</td><td>570</td><td>250 C</td></tr> <tr><td colspan="3" style="text-align: center;">UTAH</td></tr> <tr><td>Ogden</td><td></td><td></td></tr> <tr><td>KLO</td><td>1400</td><td>500 N</td></tr> <tr><td>Price</td><td></td><td></td></tr> <tr><td>KEUB</td><td>1420</td><td>100</td></tr> <tr><td>Salt Lake City</td><td></td><td></td></tr> <tr><td>KDYL</td><td>1290</td><td>1000 N</td></tr> <tr><td>KSL</td><td>1130</td><td>50000 C</td></tr> <tr><td>.....</td><td>1500</td><td>100</td></tr> <tr><td colspan="3" style="text-align: center;">VERMONT</td></tr> <tr><td>Burlington</td><td></td><td></td></tr> <tr><td>WCAX</td><td>1200</td><td>100</td></tr> <tr><td>Rutland</td><td></td><td></td></tr> <tr><td>WSYB</td><td>1500</td><td>100</td></tr> <tr><td>St. Albans</td><td></td><td></td></tr> <tr><td>WQDM</td><td>1370</td><td>100</td></tr> <tr><td>Springfield</td><td></td><td></td></tr> <tr><td>WNBX</td><td>1260</td><td>100</td></tr> <tr><td>Waterbury</td><td></td><td></td></tr> <tr><td>WDEV</td><td>550</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">VIRGINIA</td></tr> <tr><td>Arlington</td><td></td><td></td></tr> <tr><td>NAA</td><td>690</td><td>1000</td></tr> <tr><td>Charlottesville</td><td></td><td></td></tr> <tr><td>WCHV</td><td>1420</td><td>100</td></tr> <tr><td>Danville</td><td></td><td></td></tr> <tr><td>WB1M</td><td>1370</td><td>100</td></tr> <tr><td>Harrisonburg</td><td></td><td></td></tr> <tr><td>WSVA</td><td>550</td><td>500</td></tr> <tr><td>Lynchburg</td><td></td><td></td></tr> <tr><td>WLVA</td><td>1200</td><td>100</td></tr> <tr><td>Newport News</td><td></td><td></td></tr> <tr><td>WGH</td><td>1310</td><td>100</td></tr> <tr><td>Norfolk</td><td></td><td></td></tr> <tr><td>WTAR</td><td>780</td><td>500 N</td></tr> <tr><td>Petersburg</td><td></td><td></td></tr> <tr><td>WPIR</td><td>880</td><td>500</td></tr> <tr><td>Richmond</td><td></td><td></td></tr> <tr><td>WBBL</td><td>1210</td><td>100</td></tr> <tr><td>WMBG</td><td>1210</td><td>100 C</td></tr> <tr><td>WRVA</td><td>1110</td><td>5000 N</td></tr> <tr><td>Roanoke</td><td></td><td></td></tr> <tr><td>WDBJ</td><td>930</td><td>1000 C</td></tr> <tr><td colspan="3" style="text-align: center;">WASHINGTON</td></tr> <tr><td>Aberdeen</td><td></td><td></td></tr> <tr><td>KXRO</td><td>1310</td><td>100</td></tr> <tr><td>Bellingham</td><td></td><td></td></tr> <tr><td>KVOS</td><td>1200</td><td>100</td></tr> <tr><td>Everett</td><td></td><td></td></tr> <tr><td>KRKO</td><td>1370</td><td>50</td></tr> </table>	Paris			KPLT	1500	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 N	Price			KEUB	1420	100	Salt Lake City			KDYL	1290	1000 N	KSL	1130	50000 C	1500	100	VERMONT			Burlington			WCAX	1200	100	Rutland			WSYB	1500	100	St. Albans			WQDM	1370	100	Springfield			WNBX	1260	100	Waterbury			WDEV	550	500	VIRGINIA			Arlington			NAA	690	1000	Charlottesville			WCHV	1420	100	Danville			WB1M	1370	100	Harrisonburg			WSVA	550	500	Lynchburg			WLVA	1200	100	Newport News			WGH	1310	100	Norfolk			WTAR	780	500 N	Petersburg			WPIR	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Olympia</td><td></td><td></td></tr> <tr><td>KGY</td><td>1210</td><td>100</td></tr> <tr><td>Pullman</td><td></td><td></td></tr> <tr><td>KWSC</td><td>1220</td><td>1000</td></tr> <tr><td>Seattle</td><td></td><td></td></tr> <tr><td>KIRO</td><td>710</td><td>500</td></tr> <tr><td>KJR</td><td>970</td><td>5000 B</td></tr> <tr><td>KOL</td><td>1270</td><td>1000 C</td></tr> <tr><td>KOMO</td><td>920</td><td>1000 R</td></tr> <tr><td>KRSC</td><td>1120</td><td>100</td></tr> <tr><td>KTW</td><td>1220</td><td>1000</td></tr> <tr><td>KVL</td><td>1370</td><td>100</td></tr> <tr><td>KXA</td><td>760</td><td>250</td></tr> <tr><td>Spokane</td><td></td><td></td></tr> <tr><td>KFIO</td><td>1120</td><td>100</td></tr> <tr><td>KFPY</td><td>890</td><td>1000 C</td></tr> <tr><td>KGA</td><td>1470</td><td>5000 B</td></tr> <tr><td>KHQ</td><td>590</td><td>1000 R</td></tr> <tr><td>Tacoma</td><td></td><td></td></tr> <tr><td>KMO</td><td>1330</td><td>250</td></tr> <tr><td>KVI</td><td>570</td><td>1000 C</td></tr> <tr><td>Walla Walla</td><td></td><td></td></tr> <tr><td>KUJ</td><td>1370</td><td>100</td></tr> <tr><td>Wenatchee</td><td></td><td></td></tr> <tr><td>KPO</td><td>1500</td><td>100</td></tr> <tr><td>Yakima</td><td></td><td></td></tr> <tr><td>KIT</td><td>1310</td><td>100</td></tr> <tr><td colspan="3" style="text-align: center;">WEST VIRGINIA</td></tr> <tr><td>Bluefield</td><td></td><td></td></tr> <tr><td>WHIS</td><td>1410</td><td>250</td></tr> <tr><td>Charleston</td><td></td><td></td></tr> <tr><td>WCHS</td><td>580</td><td>500</td></tr> <tr><td>Fairmont</td><td></td><td></td></tr> <tr><td>WMMN</td><td>890</td><td>500 C</td></tr> <tr><td>Huntington</td><td></td><td></td></tr> <tr><td>WSAZ</td><td>1190</td><td>1000</td></tr> <tr><td>Parkersburg</td><td></td><td></td></tr> <tr><td>WPAR</td><td>1420</td><td>100</td></tr> <tr><td>Wheeling</td><td></td><td></td></tr> <tr><td>WWVA</td><td>1160</td><td>5000 C</td></tr> <tr><td colspan="3" style="text-align: center;">WISCONSIN</td></tr> <tr><td>Fond du Lac</td><td></td><td></td></tr> <tr><td>KF1Z</td><td>1420</td><td>100</td></tr> <tr><td>Green Bay</td><td></td><td></td></tr> <tr><td>WHBY</td><td>1200</td><td>100</td></tr> <tr><td>WTAQ</td><td>1330</td><td>1000</td></tr> <tr><td>Janesville</td><td></td><td></td></tr> <tr><td>WGLO</td><td>1200</td><td>100</td></tr> <tr><td>LaCrosse</td><td></td><td></td></tr> <tr><td>WKBH</td><td>1380</td><td>1000</td></tr> <tr><td>Madison</td><td></td><td></td></tr> <tr><td>WHA</td><td>940</td><td>2500</td></tr> <tr><td>WIBA</td><td>1280</td><td>1000 N</td></tr> <tr><td>Manitowoc</td><td></td><td></td></tr> <tr><td>WOMT</td><td>1210</td><td>100</td></tr> <tr><td>Milwaukee</td><td></td><td></td></tr> <tr><td>WEMP</td><td>1310</td><td>100</td></tr> <tr><td>WISN</td><td>1120</td><td>250 C</td></tr> <tr><td>WTM-J</td><td>620</td><td>1000 N</td></tr> <tr><td>Poynette</td><td></td><td></td></tr> <tr><td>WIBU</td><td>1210</td><td>100</td></tr> <tr><td>Racine</td><td></td><td></td></tr> <tr><td>WRJN</td><td>1370</td><td>100</td></tr> <tr><td>Sheboygan</td><td></td><td></td></tr> <tr><td>WHBL</td><td>1300</td><td>500</td></tr> <tr><td>Stevens Point</td><td></td><td></td></tr> <tr><td>WLBI</td><td>900</td><td>2500</td></tr> <tr><td>Superior</td><td></td><td></td></tr> <tr><td>WEBC</td><td>1290</td><td>1000 N</td></tr> <tr><td colspan="3" style="text-align: center;">WYOMING</td></tr> <tr><td>Casper</td><td></td><td></td></tr> <tr><td>KDFN</td><td>1440</td><td>500</td></tr> </table>	Olympia			KGY	1210	100	Pullman			KWSC	1220	1000	Seattle			KIRO	710	500	KJR	970	5000 B	KOL	1270	1000 C	KOMO	920	1000 R	KRSC	1120	100	KTW	1220	1000	KVL	1370	100	KXA	760	250	Spokane			KFIO	1120	100	KFPY	890	1000 C	KGA	1470	5000 B	KHQ	590	1000 R	Tacoma			KMO	1330	250	KVI	570	1000 C	Walla Walla			KUJ	1370	100	Wenatchee			KPO	1500	100	Yakima			KIT	1310	100	WEST VIRGINIA			Bluefield			WHIS	1410	250	Charleston			WCHS	580	500	Fairmont			WMMN	890	500 C	Huntington			WSAZ	1190	1000	Parkersburg			WPAR	1420	100	Wheeling			WWVA	1160	5000 C	WISCONSIN			Fond du Lac			KF1Z	1420	100	Green Bay			WHBY	1200	100	WTAQ	1330	1000	Janesville			WGLO	1200	100	LaCrosse			WKBH	1380	1000	Madison			WHA	940	2500	WIBA	1280	1000 N	Manitowoc			WOMT	1210	100	Milwaukee			WEMP	1310	100	WISN	1120	250 C	WTM-J	620	1000 N	Poynette			WIBU	1210	100	Racine			WRJN	1370	100	Sheboygan			WHBL	1300	500	Stevens Point			WLBI	900	2500	Superior			WEBC	1290	1000 N	WYOMING			Casper			KDFN	1440	500	<table border="1" style="width: 100%; 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W. TERRITORY</td></tr> <tr><td>Aklavik</td><td></td><td></td></tr> <tr><td>CJCU</td><td>1210</td><td>50</td></tr> <tr><td colspan="3" style="text-align: center;">NOVA SCOTIA</td></tr> <tr><td>Glace Bay</td><td></td><td></td></tr> <tr><td>VAS</td><td>685</td><td>2000</td></tr> <tr><td>Halifax</td><td></td><td></td></tr> <tr><td>CHNS</td><td>930</td><td>1000 F</td></tr> <tr><td>Sydney</td><td></td><td></td></tr> <tr><td>CJCB</td><td>1240</td><td>1000 F</td></tr> <tr><td>Wolfville</td><td></td><td></td></tr> <tr><td>CKIK</td><td>1010</td><td>50</td></tr> <tr><td>Yarmouth</td><td></td><td></td></tr> <tr><td>CJLS</td><td>1310</td><td>100</td></tr> <tr><td colspan="3" style="text-align: center;">ONTARIO</td></tr> <tr><td>Brantford</td><td></td><td></td></tr> <tr><td>CKPC</td><td>930</td><td>100 F</td></tr> </table>	Sheridan			KWYO	1370	100	CANADA			ALBERTA			Calgary			CFAC	930	100 F	CFCN	1030	10000	CJ CJ	690	100 F	Edmonton			CFRN	1260	100 F	CJCA	730	1000 F	CKUA	580	500	Lethridge			CJOC	950	100 F	BRITISH COLUMBIA			Chilliwack			CHWK	780	100 F	Kamloops			CFJC	880	100 F	Kelowna			CKOV	630	100 F	Prince Rupert			CFPR	580	50	Trair			CJAT	910	1000 F	Vancouver			CJOR	600	500	CKCD	1010	100	CKKL	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	630	500 F	CKY	910	15000 F	NEW BRUNSWICK			Fredrickton			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			CKIK	1010	50	Yarmouth			CJLS	1310	100	ONTARIO			Brantford			CKPC	930	100 F	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Chatham</td><td></td><td></td></tr> <tr><td>CFCO</td><td>630</td><td>100 F</td></tr> <tr><td>Cobalt</td><td></td><td></td></tr> <tr><td>CKMK</td><td>1210</td><td>50</td></tr> <tr><td>Fort William</td><td></td><td></td></tr> <tr><td>CKPR</td><td>730</td><td>100 F</td></tr> <tr><td>Hamilton</td><td></td><td></td></tr> <tr><td>CHML</td><td>1010</td><td>100 F</td></tr> <tr><td>CKOC</td><td>1120</td><td>500 F</td></tr> <tr><td>Kingston</td><td></td><td></td></tr> <tr><td>CRFC</td><td>1510</td><td>100</td></tr> <tr><td>Kirkland Lake</td><td></td><td></td></tr> <tr><td>CJKL</td><td>1310</td><td>100 F</td></tr> <tr><td>London</td><td></td><td></td></tr> <tr><td>CFPL</td><td>730</td><td>100 F</td></tr> <tr><td>North Bay</td><td></td><td></td></tr> <tr><td>CFCH</td><td>930</td><td>100 F</td></tr> <tr><td>Ottawa</td><td></td><td></td></tr> <tr><td>CKCO</td><td>1010</td><td>100 F</td></tr> <tr><td>CRCO</td><td>880</td><td>1000 F</td></tr> <tr><td>Prescott</td><td></td><td></td></tr> <tr><td>GFLC</td><td>930</td><td>100</td></tr> <tr><td>St. Catharines</td><td></td><td></td></tr> <tr><td>CKTB</td><td>1200</td><td>100 F</td></tr> <tr><td>Sault Ste. 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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Prince Albert
CKBI 1210 100 F

Regina
CHWC 1010 500 F
CKCK 1010 500 F

Saskatoon
CFQC 840 1000 F

Yorkton
CJGX 580 100 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
TIPS 1441 7.5
TIGA 1014 30

San Jose
TIFP 850 500
TIFA 1050 75
TIGH 1000 500
TIGPH 650 1000
TIRH 930 50
TIVCA 1225
TIX 800

GUATEMALA

Guatemala City
TGW 1210 10000
TGX 1400 2500

HONDURAS

Tegucigalpa
HRN 1340 100

NICARAGUA

Managua
YNLF 1275 20
YNOP 1230 100
YNVA 950 30

PANAMA

Colon
HP50 1440 25

EL SALVADOR

San Salvador
RDN 680 500

MEXICO

AGUASCALIENTES

Aguascalientes
XFA 1310 5
XFC 810 350

CHIHUAHUA

Chihuahua
XEFI 1440 250

Hidalgo
XEAT 1210 50

Juarez
XEFV 1210 100
XEF 980 100
XEJ 1020 1000

COAHUILA

Piedras Negras
XELO 1110 10000
XEPN 590 50000

Saltillo
XEAS 1160 100
XELA 1240 50
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
XEW 890 50000
XEWZ 1150 100
XEXM 610
XEYZ 780 10000
XFX 610 1000

DURANGO

Durango
XEE 1210 50

GUANAJUATO

Guanajuato
XEAZ 1420 7
Leon
XEKL 1240 500

JALISCO

Guadalajara
XEA 1060 500
XED 1155 2500

LOWER CALIFORNIA

Coronado Island
XEMZ 820

Ensenada
XEG 1270 200

Mexicali
XEAA 920 200
XEAO 560 250

Rosarito
XEAQ 1090 1000

Tijuana
XEAC 1240 250
XEC 1160 30
XEFL 1150 250

XEMO 860 5000
XEOK 760 250
XESL 1160

MICHOACAN

Morelia
XEI 1370 125

NUEVO LEON

Monterrey
XEFB 1420 100
XEFJ 1230 100
XEH 1150 250
XFT 690 500
XEX 1310 125

PUEBLA

Puebla
XETH 1210 100

SAN LUIS POTOSI

San Luis Potosi
XEZZ 1370 100

SONORA

Hermosillo
XEBH 930 500

Nogales
XEAJ 990 500

TAMAULIPAS

Matamoros
XEAM 750 7.5

Nuevo Laredo
XEBK 1000 100
XEFE 1340 250
XENT 910 150000

Reynosa
XEAW 960 50000

Tampico
XEFW 1310 250
XES 990 250

VERACRUZ

Cordoba
XEAG 1310 10

Jalapa
XFB 1270 250
XFD 1340 350

Veracruz
XETF 1220 12
XEU 1010 250

YUCATAN

Merida
XEFC 560 100
XEME 1240 15
XEY 1000 10
XEZ 630 500

WEST INDIES

CUBA

Caibarien
CMHD 1270 250

Camaguey
CMJA 1010 50
CMJC 1390 150
CMJE 1220 50

CMJF 1150 200
CMJK 780 250
CMJL 1340 100
CMJP 1430 75

Cardenas
CMGE 1370 150

Ciego de Avila
CMJH 1360 100
CMJI 1130 50
CMJO 1180 50

Cienfuegos
CMHJ 1160 100
CMHW 820 100
CMHX 760 200

Cruces
CMHK 1330 250

Havana
CMBC 640 150
CMBD 1170 150
CMBG 1140 200
CMBN 850 150
CMBS 770 150
CMBX 1070 500
CMBY 970 150
CMBZ 1000 150
CMCA 1350 250
CMCB 1230 150
CMCD 950 250
CMCF 810 600
CMCG 680 150
CMCJ 1110 500
CMCO 1200 150
CMCQ 1420 250
CMCR 1380 150
CMCU 1460 150
CMCW 750 150
CMCX 1500 150
CMCY 1030 1000
CMK 730 3000
CMOA 1440 150
CMOK 1470 150
CMOX 1320 200
CMQ 880 500
CMW 600 1400
CMX 920 1000

Holguin
CMKF 1460 250

Manzanillo
CMKM 1120 50

Matanzas
CMGC 1400 100
CMGF 1120 150
CMGH 790 250

Sagua la Grande
CMHA 1070 50

Sancti Spiritus
CMBB 1240 50

Santa Clara
CMHI 1210 150

Santiago
CMKC 1250 150
CMKD 1050 250
CMKR 1400 100
CMKX 1190 75

DOMINICAN REPUBLIC

San Pedro de Macoris
HIH 1395 15

Trujillo
HIJ 1195 15
HIX 800 700
HIZ 1370 10

HAITI

Port-au-Prince
HHK 920 1000

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 100 Calgary, Alta.	CJLS 1310 100 Yarmouth, N. S.	CMBS 770 150 Havana, Cuba
CFCF 600 400 Montreal, Que.	CJOC 950 100 Lethbridge, Alta.	CMBX 1070 500 Havana, Cuba
CFCH 930 100 North Bay, Ont.	CJOR 600 500 Vancouver, B. C.	CMBY 970 150 Havana, Cuba
CFCN 1030 10000 Calgary, Alta.	CJRC 630 500 Winnipeg, Man.	CMBZ 1000 150 Havana, Cuba
CFCO 630 100 Chatham, Ont.	CJRM 540 1000 Moose Jaw, Sask.	CMCA 1350 250 Havana, Cuba
CFCT 1450 75 Victoria, B. C.	CKAC 730 5000 Montreal, Que.	CMCB 1230 150 Havana, Cuba
CFCY 630 1000 Charlottetown, P.E.I.	CKBI 1210 100 Prince Albert, Sask.	CMCD 950 250 Havana, Cuba
CFJC 880 100 Kamloops, B. C.	CKCD 1010 100 Vancouver, B. C.	CMCF 810 600 Havana, Cuba
CFLC 930 100 Prescott, Ont.	CKCH 1210 100 Hull, Que.	CMCG 680 150 Havana, Cuba
CFNB 550 500 Fredericton, N. B.	CKCK 1010 500 Regina, Sask.	CMCJ 1110 500 Havana, Cuba
CFPL 730 100 London, Ont.	CKCL 580 100 Toronto, Ont.	CMCO 1200 150 Havana, Cuba
CFPR 580 50 Prince Rupert B. C.	CKCO 1010 100 Ottawa, Ont.	CMCQ 1420 250 Havana, Cuba
CFQC 840 1000 Saskatoon, Sask.	CKCR 1510 100 Waterloo, Ont.	CMCR 1380 150 Havana, Cuba
CFRB 690 10000 Toronto, Ont.	CKCV 1310 100 Quebec, Que.	CMCU 1460 150 Havana, Cuba
CFRC 1530 100 Kingston, Ont.	CKCW 1370 100 Moncton, N. B.	CMCW 750 150 Havana, Cuba
CFRN 1260 100 Edmonton, Alta.	CKFC 1410 50 Vancouver, B. C.	CMCX 1500 150 Havana, Cuba
CHAB 1200 100 Moose Jaw, Sask.	CKGB 1420 100 Timmins, Ont.	CMCY 1030 1000 Havana, Cuba
CHCK 1310 50 Charlottetown, P.E.I.	CKIC 1010 50 Wolfville, N. S.	CMCG 1400 100 Matanzas, Cuba
CHGS 1450 50 Summerside, P.E.I.	CKLW 1030 5000 Windsor, Ont.	CMGE 1370 150 Cardenas, Cuba
CHLP 1120 100 Montreal, Que.	CKMC 1210 50 Cobalt, Ont.	CMGF 1120 150 Matanzas, Cuba
CHML 1010 100 Hamilton, Ont.	CKMO 1410 100 Vancouver, B. C.	CMGH 790 250 Matanzas, Cuba
CHNC 960 1000 New Carlisle, Que.	CKNX 1200 50 Wingham, Ont.	CMHA 1070 50 Sagua la Grande, Cu.
CHNS 930 1000 Halifax, N. S.	CKOC 1120 500 Hamilton, Ont.	CMHB 1240 50 Sancti Spiritus, Cuba
CHRC 580 100 Quebec, Que.	CKOV 630 100 Kelowna, B. C.	CMHD 1270 250 Cabañen, Cuba
CHSJ 1120 500 St. John, N. B.	CKPC 930 100 Brantford, Ont.	CMHI 1210 150 Santa Clara, Cuba
CHWC 1010 500 Regina, Sask.	CKPR 730 100 Fort William, Ont.	CMHJ 1160 100 Cienfuegos, Cuba
CHWK 780 100 Chilliwack, B. C.	CKSO 780 1000 Sudbury, Ont.	CMHK 1330 250 Cruces, Cuba
CJAT 910 1000 Trail, B. C.	CKTB 1200 100 St. Catharines, Ont.	CMHW 820 100 Cienfuegos, Cuba
CJCA 730 1000 Edmonton, Alta.	CKUA 580 500 Edmonton, Alta.	CMHX 760 200 Cienfuegos, Cuba
CJCB 1240 1000 Sydney, N. S.	CKWX 1010 100 Vancouver, B. C.	CMJA 1010 50 Camaguey, Cuba
CJCJ 690 100 Calgary, Alta.	CKX 1120 100 Brandon, Man.	CMJC 1390 150 Camaguey, Cuba
CJCS 1210 50 Stratford, Ont.	CKY 910 15000 Winnipeg, Man.	CMJE 1220 50 Camaguey, Cuba
CJCU 1210 50 Aklavik, N. W. T.	CMBC 640 150 Havana, Cuba	CMJF 1150 200 Camaguey, Cuba
CJGX 580 100 Yorkton, Sask.	CMBD 1170 150 Havana, Cuba	CMJH 1360 100 Ciego de Avila, Cuba
CJIC 1500 100 S. Ste. Marie, Ont.	CMBG 1140 200 Havana, Cuba	CMJI 1130 100 Ciego de Avila, Cuba
CJKL 1310 100 Kirkland, Lake, Ont.	CMBN 850 150 Havana, Cuba	CMJK 780 250 Camaguey, Cuba

NORTH AMERICAN B. C. STATIONS BY CALL S

CMJL 1340 Camaguey, Cuba	100	KARK 890 Little Rock, Ark.	250	KFJB 1200 Marshalltown, Iowa	100
CMJO 1180 Ciego de Avila, Cuba	50	KASA 1210 Elk City, Okla.	100	KFJI 1210 Klamath Falls, Ore.	100
CMJP 1430 Camaguey, Cuba	75	KAST 1370 Astoria, Ore.	100	KFJM 1370 Grand Forks, N. D.	100
CMK 730 Havana, Cuba	3000	KBIX 1500 Muskogee, Okla.	100	KFJR 1300 Portland, Ore.	500
CMKC 1250 Santiago, Cuba	150	KBPS 1420 Portland, Ore.	100	KFJZ 1370 Fort Worth, Texas	100
CMKD 1050 Santiago, Cuba	250	KBTM 1200 Jonesboro, Ark.	100	KFKA 880 Greeley, Colo.	500
CMKF 1460 Holguin, Cuba	250	KCMC 1420 Texarkana, Ark.	100	KFKU 1220 Lawrence, Kans.	1000
CMKM 1120 Manzanillo, Cuba	50	KCMO 1370 Kansas City, Mo.	100	KFNF 890 Shenandoah, Iowa	500
CMKR 1400 Santiago, Cuba	100	KCRC 1360 Enid, Okla.	250	KFOR 1210 Lincoln, Neb.	100
CMKX 1190 Santiago, Cuba	75	KCRJ 1310 Jerome, Ariz.	100	KFOX 1250 Long Beach, Calif.	1000
CMOA 1440 Havana, Cuba	150	KDB 1500 Santa Barbara, Calif.	100	KFPL 1310 Dublin, Texas	100
CMOK 1470 Havana, Cuba	150	KDFN 1440 Casper, Wyo.	500	KFPW 1210 Fort Smith, Ark.	100
CMOX 1320 Havana, Cuba	200	KDKA 980 Pittsburgh, Pa.	50000	KFPY 890 Spokane, Wash.	1000
CMQ 880 Havana, Cuba	500	KDLR 1210 Devils Lake, N. D.	100	KFQD 780 Anchorage, Alaska	250
CMW 600 Havana, Cuba	1400	KDON 1210 Del Monte, Calif.	100	KFRC 610 San Francisco, Calif.	1000
CMX 920 Havana, Cuba	1000	KDYL 1290 Salt Lake City, Utah	1000	KFRQ 1370 Longview, Texas	100
CRCK 1050 Quebec, Que.	1000	KECA 1430 Los Angeles, Calif.	1000	KFRU 630 Columbia, Mo.	500
CRCM 910 Montreal, Que.	5000	KEHE 780 Los Angeles, Calif.	500	KFSD 600 San Diego, Calif.	1000
CRCO 880 Ottawa, Ont.	1000	KELD 1370 El Dorado, Ark.	100	KFSD 1120 Los Angeles, Calif.	500
CRCS 950 Chicoutimi, Que.	100	KERN 1370 Bakersfield, Calif.	100	KFUO 550 St. Louis, Mo.	500
CRCT 840 Toronto, Ont.	5000	KEUB 1420 Price, Utah	100	KFVD 1000 Los Angeles, Calif.	250
CRCV 1100 Vancouver, B. C.	500	KEX 1180 Portland, Ore.	5000	KFVS 1210 Cape Girardeau, Mo.	100
CRCW 600 Windsor, Ont.	500	KFAB 770 Lincoln, Neb.	10000	KFWB 950 Hollywood, Calif.	1000
FQN 609 St. Pierre, Miq.	250	KFAC 1300 Los Angeles, Calif.	1000	KFXD 1200 Nampa, Idaho	100
HHK 920 Port-au-Prince, Haiti	1000	KFBB 1280 Great Falls, Mont.	1000	KFXJ 1200 Grand Junction, Colo.	100
HIH 1395 San Pedro de M., D.R.	15	KFBI 1050 Ablene, Kans.	5000	KFXM 1210 San Bernardino, Calif.	100
HIJ 1195 Trujillo, D. R.	15	KFBK 1490 Sacramento, Calif.	5000	KFXR 1310 Oklahoma City, Okla.	100
HIX 800 Trujillo, D. R.	700	KFDM 560 Beaumont, Texas	500	KFYO 1310 Lubbock, Texas	100
HIZ 1370 Trujillo, D. R.	10	KFDY 780 Brookings, S. D.	1000	KFYR 550 Bismarck, N. D.	1000
HP50 1440 Colon, Panama	25	KFEL 920 Denver, Colo.	500	KGA 1470 Spokane, Wash.	5000
HRN 1340 Tegucigalpa, Hond.	100	KFEQ 680 St. Joseph, Mo.	2500	KGAR 1370 Tucson, Ariz.	100
KABC 1420 San Antonio, Texas	100	KFGQ 1370 Boone, Iowa	100	KGB 1330 San Diego, Calif.	1000
KABR 1420 Aberdeen, S. Dak.	100	KFH 1300 Wichita, Kans.	1000	KGBU 900 Ketchikan, Alaska	500
KADA 1200 Ada, Okla.	100	KFI 640 Los Angeles, Calif.	50000	KGBX 1230 Springfield, Mo.	500
KALB 1420 Alexandria, La.	100	KFIO 1120 Spokane, Wash.	100	KGC 1270 Decorah, Iowa	100
KALE 1300 Portland, Ore.	500	KFIZ 1420 Fond du Lac, Wis.	100	KGCU 1240 Mandan, N. D.	250

NORTH AMERICAN B. C. STATIONS BY CALLS

KG CX 1310	100	KHBC 1420	100	KMPC 710	500
Wolf Point, Mont.		Hilo, T. H.		Beverly Hills, Calif.	
KGDE 1200	100	KHJ 900	1000	KMTR 570	1000
Fergus Falls, Minn.		Los Angeles, Calif.		Hollywood, Calif.	
KGDM 1100	1000	KHQ 590	1000	KNEL 1500	100
Stockton, Calif.		Spokane, Wash.		Brady, Texas	
KGDY 1340	250	KHSL 950	250	KNET 1420	100
Huron, S. D.		Chico, Calif.		Paestine, Texas	
KGEK 1200	100	KICA 1370	100	KNOW 1500	100
Sterling, Colo.		Clovis, N. M.		Austin, Texas	
KGER 1360	1000	KID 1320	500	KNX 1050	50000
Long Beach, Calif.		Idaho Falls, Idaho		Hollywood, Calif.	
KGEZ 1310	100	KIDO 1350	1000	KOA 830	50000
Kalispell, Mont.		Boise, Idaho		Denver, Colo.	
KGFF 1420	100	KIDW 1420	100	KOAC 550	1000
Shawnee, Okla.		Lamar, Colo.		Corvallis, Ore.	
KGFG 1370	100	KIEM 1450	500	KOB 1180	10000
Oklahoma City, Okla.		Eureka, Calif.		Albuquerque, N. M.	
KGFI 1500	100	KIEV 850	250	KOH 1380	500
Corpus Christi, Texas		Glendale, Calif.		Reno, Nev.	
KG FJ 1200	100	KINY 1310	100	KOIL 1260	1000
Los Angeles, Calif.		Juneau, Alaska		Council Bluffs, Iowa	
KGFK 1500	100	KIRO 710	500	KOIN 940	1000
Moorhead, Minn.		Seattle, Wash.		Portland, Ore.	
KGFL 1370	100	KIT 1310	100	KOL 1270	1000
Roswell, N. M.		Yakima, Wash.		Seattle, Wash.	
KGFW 1310	100	KIUJ 1310	100	KOMA 1480	5000
Kearney, Neb.		Santa Fe, N. Mex.		Oklahoma City, Okla.	
KGFX 630	200	KIUL 1210	100	KOMO 920	1000
Pierre, S. D.		Garden City, Kans.		Seattle, Wash.	
KGGC 1420	100	KIUN 1420	100	KONO 1370	100
San Francisco, Calif.		Pecos, Texas		San Antonio, Texas	
KGGF 1010	1000	KIUP 1370	100	KOOD 1390	250
Coffeyville, Kans.		Durango, Colo.		Marshfield, Ore.	
KGGM 1230	250	KJBS 1070	500	KORE 1420	100
Albuquerque, N. M.		San Francisco, Calif.		Eugene, Ore.	
KGHF 1320	500	KJR 970	5000	KOTN 1500	100
Pueblo, Colo.		Seattle, Wash.		Pine Bluffs, Ark.	
KGHI 1200	100	KLCN 1290	100	KOY 1390	500
Little Rock, Ark.		Blytheville, Ark.		Phoenix, Ariz.	
KGHL 780	1000	KLO 1400	500	KPAC 1260	500
Billings, Mont.		Ogden, Utah		Port Arthur, Texas	
KGIR 1340	1000	KLPM 1240	250	KPDN 1310	100
Butte, Mont.		Minot, N. D.		Pampa, Texas	
KGIW 1420	100	KLRA 1390	1000	KPLC 1500	100
Alamosa, Colo.		Little Rock, Ark.		Lake Charles, La.	
KGKB 1500	100	KLS 1440	250	KPO 680	50000
Tyler, Texas		Oakland, Calif.		San Francisco, Calif.	
KGKL 1370	100	KLUF 1370	100	KPOF 880	500
San Angelo, Texas		Galveston, Texas		Denver, Colo.	
KGKO 570	250	KLX 880	1000	KPPC 1210	50
Wichita Falls, Texas		Oakland, Calif.		Pasadena, Calif.	
KGKY 1500	100	KLZ 560	1000	KPQ 1500	100
Scottsbluff, Neb.		Denver, Colo.		Wenatchee, Wash.	
KGMB 1320	1000	KMA 930	1000	KPRC 920	1000
Honolulu, T. H.		Shenandoah, Iowa		Houston, Texas	
KGNC 1410	1000	KMAC 1370	100	KQV 1380	500
Amarillo, Texas		San Antonio, Texas		Pittsburgh, Pa.	
KGNF 1430	1000	KMBC 950	1000	KQW 1010	1000
North Platte, Neb.		Kansas City, Mo.		San Jose, Calif.	
KGNO 1340	250	KMED 1310	100	KRE 1370	100
Dodge City, Kans.		Medford, Ore.		Berkeley, Calif.	
KGO 799	7500	KMJ 580	1000	KRGV 1260	500
San Francisco, Calif.		Fresno, Calif.		Weslaco, Texas	
KGU 750	2500	KMLB 1200	100	KRKD 1120	500
Honolulu, T. H.		Monroe, La.		Los Angeles, Calif.	
KGVO 1260	1000	KMMJ 740	1000	KRKO 1370	50
Missoula, Mont.		Clay Center, Neb.		Everett, Wash.	
KGW 620	1000	KMO 1330	250	KRLC 1420	100
Portland, Ore.		Tacoma, Wash.		Lewiston, Idaho	
KG Y 1210	100	KMOX 1090	50000	KRLD 1040	10000
Olympia, Wash.		St. Louis, Mo.		Dallas, Texas	

NORTH AMERICAN B. C. STATIONS BY CALLS

KRLH 1420 Midland, Texas	100	KVL 1370 Seattle, Wash.	100	TIRH 930 San Jose, C. R.	50
KRMD 1310 Shreveport, La.	100	KVOA 1260 Tucson, Ariz.	500	TIVCA 1225 San Jose, C. R.	.....
KRRR 1500 Roseburg, Ore.	100	KVOD 920 Denver, Colo.	500	TIX 800 San Jose, C. R.	.....
KRNT 1320 Des Moines, Iowa	500	KVOE 1500 Santa Ana, Calif.	100	VAS 685 Glace Bay, N. S.	2000
KROC 1310 Rochester, Minn.	100	KVOL 1310 Lafayette, La.	100	VESEK 1185 Montmagny, Que.	10
KROW 930 Oakland, Calif.	1000	KVOO 1140 Tulsa, Okla.	25000	VOAC 1065 St. John's, Nfld.	40
KRSC 1120 Seattle, Wash.	100	KVOR 1270 Colorado Spgs., Colo.	1000	VOAS 940 St. John's, Nfld.	100
KSAC 580 Manhattan, Kans.	500	KVOS 1200 Bellingham, Wash.	100	VOGY 840 St. John's, Nfld.	400
KSCJ 1330 Sioux City, Iowa	1000	KVSO 1210 Ardmore, Okla.	100	VONF 1195 St. John's, Nfld.	500
KSD 550 St. Louis, Mo.	1000	KWBG 1420 Hutchinson, Kans.	100	VOWR 681 St. John's, Nfld.	500
KSEI 900 Pocatello, Idaho	250	KWG 1200 Stockton, Calif.	100	WAAB 1410 Boston, Mass.	500
KSFO 560 San Francisco, Calif.	1000	KWJJ 1040 Portland, Ore.	500	WAAF 920 Chicago, Ill.	1000
KSL 1130 Salt Lake City, Utah	50000	KWK 1350 St. Louis, Mo.	1000	WAAT 940 Jersey City, N. J.	500
KSLM 1370 Salem, Ore.	100	KWKH 1100 Shreveport, La.	10000	WAAW 660 Omaha, Neb.	500
KSO 1430 Des Moines, Iowa	500	KWLC 1270 Decorah, Iowa	100	WABC 860 New York, N. Y.	50000
KSOO 1110 Sioux Falls, S. D.	2500	KWSC 1220 Pullman, Wash.	1000	WABI 1200 Bangor, Maine	100
KSTP 1460 St. Paul, Minn.	25000	KWTN 1210 Watertown, S. D.	100	WABY 1370 Albany, N. Y.	100
KSUN 1200 Lowell, Ariz.	100	KWTO 560 Springfield, Mo.	5000	WACO 1420 Waco, Texas	100
KTAR 620 Phoenix, Ariz.	1000	KWYO 1370 Sheridan, Wyo.	100	WADC 1320 Akron, Ohio	1000
KTAT 1240 Fort Worth, Texas	1000	KXA 760 Seattle, Wash.	250	WAGF 1370 Dothan, Ala.	250
KTBS 1450 Shreveport, La.	1000	KXL 1420 Portland, Ore.	100	WAGM 1420 Presque Isle, Me.	100
KTEP 1500 El Paso, Texas	100	KXO 1500 El Centro, Calif.	100	WAIM 1200 Anderson, S. C.	100
KTFI 1240 Twin Falls, Idaho	1000	KXRO 1310 Aberdeen, Wash.	100	WAIU 640 Columbus, Ohio	500
KTHS 1060 Hot Springs, Ark.	10000	KXYZ 1440 Houston, Texas	1000	WALA 1380 Mobile, Ala.	500
KTRB 740 Modesto, Calif.	250	KYA 1230 San Francisco, Calif.	1000	WALR 1210 Zanesville, Ohio	100
KTRH 1290 Houston, Texas	1000	KYW 1020 Philadelphia, Pa.	10000	WAML 1310 Laurel, Miss.	100
KTSA 550 San Antonio, Texas	1000	NAA 690 Arlington, Va.	1000	WAPI 1140 Birmingham, Ala.	5000
KTSM 1310 El Paso, Texas	100	RDN 680 San Salvador, E. S.	500	WARD 1400 Brooklyn, N. Y.	500
KTUL 1400 Tulsa, Okla.	500	TGW 1210 Guatemala, Gua.	10000	WASH 1270 Grand Rapids, Mich.	500
KTW 1220 Seattle, Wash.	1000	TGX 1400 Guatemala City	250	WATL 1370 Atlanta, Ga.	100
KUJ 1370 Walla Walla, Wash.	100	TIEP 850 San Jose, C. R.	500	WATR 1190 Waterbury, Conn.	100
KUMA 1420 Yuma, Ariz.	100	TIFA 1050 San Jose, C. R.	75	WAVE 940 Louisville, Ky.	1000
KUOA 1260 Fayetteville, Ark.	1000	TIFS 1441 Cartago, C. R.	7.5	WAWZ 1350 Zarephath, N. J.	500
KUSD 890 Vermillion, S. D.	500	TIGA 1014 Cartago, C. R.	30	WAZL 1420 Hazleton, Pa.	100
KVCV 1200 Redding, Calif.	100	TIGH 1000 San Jose, C. R.	500	WBBA 890 West Lafayette, Ind.	1000
KVI 570 Tacoma, Wash.	1000	TIGPH 650 San Jose, C. R.	1000	WBAL 760 Baltimore, Md.	2500

NORTH AMERICAN B. C. STATIONS BY CALLS

WBAL 1060	10000	WCBD 1080	5000	WEAN 780	500
Baltimore, Md.		Waukegan, Ill.		Providence, R. I.	
WBAP 800	50000	WCBM 1370	100	WEBC 1290	1000
Fort Worth, Texas		Baltimore, Md.		Superior, Wis.	
WBAX 1210	100	WCBS 1420	100	WEBQ 1210	100
Wilkes-Barre, Pa.		Springfield, Ill.		Harrisburg, Ill.	
WBBC 1400	500	WCCO 810	50000	WEBR 1310	100
Brooklyn, N. Y.		Minneapolis, Minn.		Buffalo, N. Y.	
WBBL 1210	100	WCFL 970	5000	WEDC 1210	100
Richmond, Va.		Chicago, Ill.		Chicago, Ill.	
WBBM 770	50000	WCHS 580	500	WEED 1420	100
Chicago, Ill.		Charleston, W. Va.		Rocky Mount, N. C.	
WBBR 1300	1000	WCHV 1420	100	WEFI 590	1000
Brooklyn, N. Y.		Charlottesville, Va.		Boston, Mass.	
WBBZ 1200	100	WCKY 1490	5000	WEU 830	1000
Ponca City, Okla.		Covington, Ky.		Reading, Pa.	
WBCM 1410	500	WCLO 1200	100	WEGL 1400	500
Bay City, Mich.		Janesville, Wis.		Brooklyn, N. Y.	
WBEN 900	1000	WCLS 1310	100	WEHS 1420	100
Buffalo, N. Y.		Joliet, Ill.		Cleora, Ill.	
WBEO 1310	100	WCMI 1310	100	WELI 900	500
Marquette, Mich.		Ashland, Ky.		New Haven, Conn.	
WBIG 1440	500	WCNW 1500	100	WELL 1420	100
Greensboro, N. C.		Brooklyn, N. Y.		Battle Creek, Mich.	
WBNO 1200	100	WCOA 1340	500	WEMP 1310	100
New Orleans, La.		Pensacola, Fla.		Milwaukee, Wis.	
WBNS 1430	500	WCOC 880	500	WENR 870	50000
Columbus, Ohio		Meridian, Miss.		Chicago, Ill.	
WBNX 1350	250	WCOL 1210	100	WEOA 1370	100
New York, N. Y.		Columbus, Ohio		Evansville, Ind.	
WBNY 1370	100	WCOP 1120	500	WESG 850	1000
Buffalo, N. Y.		Boston, Mass.		Elmira, N. Y.	
WBOQ 860	50000	WCPO 1200	100	WEST 1200	100
New York, N. Y.		Cincinnati, Ohio		Easton, Pa.	
WBOW 1310	100	WCRW 1210	100	WEVD 1300	1000
Terre Haute, Ind.		Chicago, Ill.		New York, N. Y.	
WBRB 1210	100	WCSC 1360	500	WEW 760	1000
Red Bank, N. J.		Charleston, S. C.		St. Louis, Mo.	
WBRC 930	1000	WCSH 940	1000	WEXL 1310	50
Birmingham, Ala.		Portland, Me.		Royal Oak, Mich.	
WBRE 1310	100	WDAE 1220	1000	WFAA 800	50000
Wilkes-Barre, Pa.		Tampa, Fla.		Dallas, Texas	
WBT 1080	50000	WDAF 610	1000	WFAB 1300	1000
Charlotte, N. C.		Kansas City, Mo.		New York, N. Y.	
WBTM 1370	100	WDAH 1310	100	WFAM 1200	100
Danville, Va.		El Paso, Texas		South Bend, Ind.	
WBZ 990	50000	WDAS 1370	100	WFAS 1210	100
Boston, Mass.		Philadelphia, Pa.		White Plains, N. Y.	
WBZA 990	1000	WDAY 940	1000	WFBC 1300	1000
Springfield, Mass.		Fargo, N. D.		Greenville, S. C.	
WCAD 1220	500	WDBJ 930	1000	WFGB 1310	100
Canton, N. Y.		Roanoke, Va.		Altoona, Pa.	
WCAE 1220	1000	WDBO 580	1000	WFBL 1360	1000
Pittsburgh, Pa.		Orlando, Fla.		Syracuse, N. Y.	
WCAL 1250	1000	WDEL 1120	250	WFBM 1230	1000
Northfield, Minn.		Wilmington, Del.		Indianapolis, Ind.	
WCAM 1280	500	WDEV 550	500	WFBR 1270	500
Camden, N. J.		Waterbury, Vt.		Baltimore, Md.	
WCAO 600	500	WDGY 1180	1000	WDFD 1310	100
Baltimore, Md.		Minneapolis, Minn.		Flint, Mich.	
WCAP 1280	500	WDNC 1500	100	WFEA 1340	500
Asbury Park, N. J.		Durham, N. C.		Manchester, N. H.	
WCAT 1200	100	WDOD 1280	1000	WFIL 560	1000
Rapid City, S. D.		Chattanooga, Tenn.		Philadelphia, Pa.	
WCAU 1170	50000	WDR 1330	1000	WFLA 620	1000
Philadelphia, Pa.		Hartford, Conn.		Clearwater, Fla.	
WCAX 1200	100	WDSU 1250	1000	WFMD 900	500
Burlington, Vt.		New Orleans, La.		Frederick, Md.	
WCAZ 1070	100	WDZ 1020	250	WGAL 1500	100
Carthage, Ill.		Tuscola, Ill.		Lancaster, Pa.	
WCBA 1440	500	WEAF 660	50000	WGAR 1450	500
Allentown, Pa.		New York, N. Y.		Cleveland, Ohio	

NORTH AMERICAN B. C. STATIONS BY CALLS

WGBB 1210	100	WHIS 1410	250	WJBW 1200	100
Freeport, N. Y.		Bluefield, W. Va.		New Orleans, La.	
WGBF 630	500	WHJB 620	250	WJBY 1210	100
Evansville, Ind.		Greensburg, Pa.		Gadsden, Ala.	
WGBI 880	500	WHK 1390	1000	WJDX 1270	100
Seranton, Pa.		Cleveland, Ohio		Jackson, Miss.	
WGCM 1210	100	WHLB 1370	100	WJEJ 1210	100
Gulfport, Miss.		Virginia, Minn.		Hagerstown, Md.	
WGES 1360	500	WHN 1010	1000	WJIM 1210	100
Chicago, Ill.		New York, N. Y.		Lansing, Mich.	
WGH 1310	100	WHO 1000	50000	WJJD 1130	20000
Newport News, Va.		Des Moines, Iowa		Chicago, Ill.	
WGL 1370	100	WHOM 1450	250	WJMS 1420	100
Fort Wayne, Ind.		Jersey City, N. J.		Ironwood, Mich.	
WGN 720	50000	WHP 1430	500	WJNO 1200	100
Chicago, Ill.		Harrisburg, Pa.		W. Palm Beach, Fla.	
WGNV 1210	100	WIBA 1280	1000	WJR 750	50000
Chester, N. Y.		Madison, Wis.		Detroit, Mich.	
WGPC 1420	100	WIBG 970	100	WJSV 1460	10000
Albany, N. Y.		Glenside, Pa.		Washington, D. C.	
WGR 550	1000	WIBM 1370	100	WJW 1210	100
Buffalo, N. Y.		Jackson, Mich.		Akron, Ohio	
WGRC 1370	250	WIBU 1210	100	WJZ 760	50000
New Albany, Ind.		Poynette, Wis.		New York, N. Y.	
WGST 890	1000	WIBW 580	1000	WKAQ 1240	1000
Atlanta, Ga.		Topeka, Kans.		San Juan, P. R.	
WGY 790	50000	WIBX 1200	100	WKAR 850	1000
Schenectady, N. Y.		Utica, N. Y.		East Lansing, Mich.	
WHA 940	2500	WICC 600	500	WKBB 1500	100
Madison, Wis.		Bridgeport, Conn.		East Dubuque, Ill.	
WHAM 1150	50000	WIL 1200	100	WKBB 1380	1000
Rochester, N. Y.		St. Louis, Mo.		LaCrosse, Wis.	
WHAS 820	50000	WILL 890	250	WKBI 1420	100
Louisville, Ky.		Urbana, Ill.		Cicero, Ill.	
WHAT 1310	100	WILM 1420	100	WKBN 570	500
Philadelphia, Pa.		Wilmington, Del.		Youngstown, Ohio	
WHAZ 1300	500	WIND 560	1000	WKBO 1200	100
Troy, N. Y.		Gary, Ind.		Harrisburg, Pa.	
WHB 860	1000	WINS 1180	1000	WKBV 1500	100
Kansas City, Mo.		New York, N. Y.		Richmond, Ind.	
WHBB 1500	100	WIOD 1300	1000	WKBW 1480	5000
Selma, Alabama		Miami, Fla.		Buffalo, N. Y.	
WHBC 1200	100	WIP 610	1000	WKBZ 1500	100
Canton, Ohio		Philadelphia, Pa.		Muskegon, Mich.	
WHBF 1210	100	WIRE 1400	500	WKEU 1500	100
Rock Island, Ill.		Indianapolis, Ind.		Griffin, Ga.	
WHBI 1250	1000	WIS 560	1000	WKOK 1210	100
Newark, N. J.		Columbia, S. C.		Sunbury, Pa.	
WHBL 1300	500	WISN 1120	250	WKRC 550	1000
Sheboygan, Wis.		Milwaukee, Wis.		Cincinnati, Ohio	
WHBQ 1370	100	WJAC 1310	100	WKY 900	1000
Memphis, Tenn.		Johnstown, Pa.		Oklahoma City, Okla.	
WHBU 1210	100	WJAG 1060	1000	WKZO 590	1000
Anderson, Ind.		Norfolk, Neb.		Kalamazoo, Mich.	
WHBY 1200	100	WJAR 890	500	WLAC 1470	5000
Green Bay, Wis.		Providence, R. I.		Nashville, Tenn.	
WHDF 1370	100	WJAS 1290	1000	WLAK 1310	100
Calumet, Mich.		Pittsburgh, Pa.		Lakeland, Fla.	
WHDH 830	1000	WJAX 900	1000	WLAP 1420	100
Boston, Mass.		Jacksonville, Fla.		Lexington, Ky.	
WHDL 1420	100	WJAY 610	500	WLB 1250	1000
Olean, N. Y.		Cleveland, Ohio		Minneapolis, Minn.	
WHEB 740	250	WJBC 1200	100	WLBC 1310	100
Portsmouth, N. H.		Bloomington, Ill.		Muncie, Ind.	
WHEC 1430	500	WJBK 1500	100	WLBF 1420	100
Rochester, N. Y.		Detroit, Mich.		Kansas City, Kans.	
WHEF 1500	100	WJBL 1200	100	WLBS 900	2500
Kosciusko, Miss.		Decatur, Ill.		Stevens Point, Wis.	
WHFC 1420	100	WJBO 1420	100	WLZ 620	500
Cicero, Ill.		Baton Rouge, La.		Bangor, Me.	
WHIO 1260	1000	WJBR 1420	100	WLEU 1420	100
Dayton, Ohio		Gastonia, N. C.		Erie, Pa.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WLLH 1370 Lowell, Mass.	100	WNAX 570 Yankton, S. D.	1000	WPG 1100 Atlantic City, N. J.	9000
WLNH 1310 Iaconia, N. H.	100	WNBC 1380 New Britain, Conn.	250	WPHR 880 Petersburg, Va.	500
WLS 870 Chicago, Ill.	50000	WBNF 1500 Binghamton, N. Y.	100	WPRO 630 Providence, R. I.	250
WLTH 1400 Brooklyn, N. Y.	500	WNBH 1310 New Bedford, Mass.	100	WPRP 1420 Ponce, P. R.	100
WLVA 1200 Lynchburg, Va.	100	WNBR 1430 Memphis, Tenn.	500	WPTF 680 Raleigh, N. C.	5000
WLW 700 Cincinnati, Ohio	500000	WNBX 1260 Springfield, Vt.	1000	WQAM 560 Miami, Fla.	1000
WLWL 1100 New York, N. Y.	5000	WNBZ 1290 Saranac Lake, N. Y.	100	WQAN 880 Scranton, Pa.	250
WMAL 630 Washington, D. C.	250	WNEL 1290 San Juan, P. R.	1000	WQBC 1360 Vicksburg, Miss.	1000
WMAQ 670 Chicago, Ill.	50000	WNEW 1250 Newark, N. J.	1000	WQDM 1370 St. Albans, Vt.	100
WMAS 1420 Springfield, Mass.	100	WNOX 1010 Knoxville, Tenn.	1000	WRAK 1370 Williamsport, Pa.	100
WMAZ 1180 Macon, Ga.	1000	WNRI 1200 Newport, R. I.	100	WRAW 1310 Reading, Pa.	100
WMBC 1420 Detroit, Mich.	100	WNYC 810 New York, N. Y.	1000	WRAX 920 Philadelphia, Pa.	250
WBMD 1440 Peoria, Ill.	500	WQAI 1190 San Antonio, Texas	50000	WRBL 1200 Columbus, Ga.	100
WMBG 1210 Richmond, Va.	100	WOC 1370 Davenport, Iowa	100	WRC 950 Washington, D. C.	500
WMBH 1420 Joplin, Mo.	100	WOCL 1210 Jamestown, N. Y.	50	WRDO 1370 Augusta, Me.	100
WMBI 1080 Chicago, Ill.	5000	WOI 640 Ames, Iowa	5000	WRDW 1500 Augusta, Ga.	100
WMBO 1310 Auburn, N. Y.	100	WOKO 1430 Albany, N. Y.	500	WREC 600 Memphis, Tenn.	1000
WMBQ 1500 Brooklyn, N. Y.	100	WOL 1310 Washington, D. C.	100	WREN 1220 Lawrence, Kans.	1000
WMBR 1370 Jacksonville, Fla.	100	WOMT 1210 Manitowoc, Wis.	100	WRGA 1500 Rome, Ga.	100
WMC 780 Memphis, Tenn.	1000	WOOD 1270 Grand Rapids, Mich.	500	WRJN 1370 Racine, Wis.	100
WMCA 570 New York, N. Y.	500	WOPI 1500 Bristol, Tenn.	100	WROK 1410 Rockford, Ill.	500
WMEX 1500 Boston, Mass.	100	WOR 710 Newark, N. J.	50000	WROL 1310 Knoxville, Tenn.	100
WMFD 1370 Wilmington, N. C.	100	WORC 1280 Worcester, Mass.	500	WRR 1280 Dallas, Texas	500
WMFF 1310 Plattsburg, N. Y.	250	WORK 1320 York, Pa.	1000	WRUF 830 Gainesville, Fla.	5000
WMFG 1210 Hibbing, Minn.	100	WORL 920 Needham, Mass.	500	WRVA 1110 Richmond, Va.	5000
WMFJ 1420 Daytona Beach, Fla.	100	WOS 630 Jefferson City, Mo.	500	WSAI 1330 Cincinnati, Ohio	1000
WMFN 1210 Clarksdale, Miss.	100	WOSU 570 Columbus, Ohio	750	WSAJ 1310 Grove City, Pa.	100
WMFO 1370 Decatur, Ala.	100	WOV 1130 New York, N. Y.	1000	WSAN 1440 Allentown, Pa.	500
WMFR 1200 High Point, N. C.	100	WOW 590 Omaha, Neb.	5000	WSAR 1350 Fall River, Mass.	1000
WMIN 1370 St. Paul, Minn.	100	WOWO 1160 Fort Wayne, Ind.	10000	WSAY 1210 Rochester, N. Y.	100
WMMN 890 Fairmount, W. Va.	500	WPAD 1420 Paducah, Ky.	100	WSAZ 1190 Huntington, W. Va.	1000
WMPC 1200 Lapeer, Mich.	100	WPAR 1420 Parkersburg, W. Va.	100	WSB 740 Atlanta, Ga.	50000
WMSD 1420 Sheffield, Ala.	100	WPAX 1210 Thomasville, Ga.	250	WSBC 1210 Chicago, Ill.	100
WMT 600 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

NORTH AMERICAN B. C. STATIONS BY CALLS

WSIX 1210 100 Springfield, Tenn.	WWAE 1200 100 Hammond, Ind.	XEFE 1340 250 Laredo, Tams.
WSJS 1310 100 Winston-Salem, N. C.	WWJ 920 1000 Detroit, Mich.	XEFI 1440 250 Chihuahua, Chih.
WSM 650 50000 Nashville, Tenn.	WWL 850 10000 New Orleans, La.	XEFJ 1230 100 Monterrey, N. L.
WSMB 1320 500 New Orleans, La.	WWNC 570 1000 Asheville, N. C.	XEFL 1150 250 Tijuana, L. C.
WSMK 1380 200 Dayton, Ohio	WWRL 1500 100 Woodside, N. Y.	XEFO 940 5000 Mexico City, D. F.
WSOC 1210 100 Charlotte, N. C.	WWSW 1500 100 Pittsburgh, Pa.	XEFV 1210 100 Jaurez, Chih.
WSPA 920 1000 Spartanburg, S. C.	WWVA 1160 5000 Wheeling, W. Va.	XEFW 1310 250 Tampico, Tams.
WSPD 1340 1000 Toledo, Ohio	WXYZ 1240 1000 Detroit, Mich.	XEFZ 1370 100 Mexico City, D. F.
WSPR 1140 500 Springfield, Mass.	WIXBS 1530 1000 Waterbury, Conn.	XEG 1270 200 Ensenada, B. C.
WSUI 880 500 Iowa City, Iowa	W2XR 1550 1000 Long Island City, N. Y.	XEH 1150 250 Monterrey, N. L.
WSUN 620 1000 St. Petersburg, Fla.	W6XAI 1550 1000 Bakersfield, Calif.	XEI 1370 125 Morelia, Mich.
WSVA 550 500 Harrisonburg, Va.	W9XBY 1530 1000 Kansas City, Mo.	XEJ 1020 1000 Juarez, Chih.
WSVS 1370 50 Buffalo, N. Y.	XEA 1060 500 Guadalajara, Jal.	XEK 990 100 Mexico City, D. F.
WSYB 1500 100 Rutland, Vt.	XEAA 920 200 Mexicali, B. C.	XEKL 1240 500 Leon, Guan.
WSYR 570 250 Syracuse, N. Y.	XEAC 1240 250 Tijuana, L. C.	XEL 1100 250 Mexico City, D. F.
WTAD 900 500 Quincy, Ill.	XEAF 990 500 Nogales, Son.	XELA 1240 50 Saltillo, Coah.
WTAG 580 500 Worcester, Mass.	XEAG 1310 10 Cordoba, Ver.	XELO 1110 10000 Piedras Negras, Coah.
WTAL 1310 100 Tallahassee, Fla.	XEAI 1240 100 Mexico City, D. F.	XEME 1240 15 Merida, Yuc.
WTAM 1070 50000 Cleveland, Ohio	XEAM 750 7.5 Matamoros, Tams.	XEMO 860 5000 Tijuana, L. C.
WTAQ 1330 1000 Green Bay, Wis.	XEAO 560 250 Mexicali, B. C.	XEMX 1280 12 Mexico City, D. F.
WTAR 780 500 Norfolk, Va.	XEAQ 1090 1000 Rosarito, L. C.	XEMZ 820 Coronado Isl., L. C.
WTAW 1120 500 College Station, Tex.	XEAS 1160 100 Saltillo, Coah.	XEN 710 1000 Mexico City, D. F.
WTAX 1210 100 Springfield, Ill.	XEAT 1210 50 Hidalgo, Chih.	XENT 910 150000 Nuevo Laredo, Tams.
WTBO 800 250 Cumberland, Md.	XEAW 960 50000 Reynosa, Tams.	XEOK 760 250 Tijuana, L. C.
WTCN 1250 1000 Minneapolis, Minn.	XEAZ 1420 7 Guanajuato, Gto.	XEOX 640 500 Saltillo, Coah.
WTEL 1310 100 Philadelphia, Pa.	XEB 1030 10000 Mexico City, D. F.	XEPN 590 50000 Piedras Negras, Coah.
WTFI 1450 500 Athens, Ga.	XEBH 930 500 Hermosillo, Sonora	XERA 840 250000 Villa Acuna, Coah.
WTHT 1200 100 Hartford, Conn.	XEBK 1000 100 Nuevo Laredo, Tams.	XES 990 250 Tampico, Tams.
WTIC 1040 50000 Hartford, Conn.	XEC 1160 30 Tijuana, L. C.	XESL 1160 Tijuana, L. C.
WTJS 1310 100 Jackson, Tenn.	XECW 1310 10 Mexico City, D. F.	XET 690 500 Monterrey, N. L.
WTMJ 620 1000 Milwaukee, Wis.	XED 1155 2500 Guadalajara, Jal.	XETB 1310 125 Torreon, Coah.
WTMV 1500 100 East St. Louis, Ill.	XEE 1210 50 Durango, Dgo.	XETF 1220 12 Veracruz, Ver.
WTNJ 1280 500 Trenton, N. J.	XEF 980 100 Juarez, Chih.	XETH 1210 100 Puebla, Pue.
WTOC 1260 1000 Savannah, Ga.	XEFA 1180 500 Mexico City, D. F.	XEU 1010 250 Veracruz, Ver.
WTRC 1310 100 Elkhart, Ind.	XEFB 1420 100 Monterrey, N. L.	XEW 890 50000 Mexico City, D. F.
WVFW 1400 500 Brooklyn, N. Y.	XEFC 560 100 Merida, Yuc.	

(Continued on
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Eastern Time P. M.	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45	23:00	23:15	23:30	23:45			
W2XAF, Sob. Tdy. 9,530																																																			
W2XE, Wayne, 6,120																																																			
W2XE, Wayne, 11,830																																																			
W2XE, Wayne, 15,270																																																			
W2XE, Wayne, 17,760																																																			
W3XAU, Phila., 6,080																																																			
W3XAU, Phila., 9,590																																																			
W4XK, Miami, 6,040																																																			
W4XH, Miami, 6,040																																																			
W8XAL, Cincinnati, 6,060																																																			
W8XK, Pittsburgh, 6,140																																																			
W8XK, Pittsburgh, 11,870																																																			
W8XK, Pittsburgh, 15,210																																																			
W9XF, Chicago, 6,100																																																			
XEBT, Mexico Cy., 6,000																																																			
XECC, Mexico Cy., 7,380																																																			
XEDQ, Guadala., 9,820																																																			
XEVI, Mexico Cy., 5,980																																																			
YYQ, Maricao, 6,672																																																			
YZRC, Caracas, 5,800																																																			
YZRC, Caracas, 6,165																																																			
YZRC, Caracas, 6,375																																																			
YVSHMO, Maricao, 6,560																																																			
YVOBY, Valencia, 6,530																																																			
YV10RSC, S. Cristl., 5,720																																																			
Portoise, 11,730																																																			
Portoise, 11,880																																																			

Hints on Tuning the Short Waves

It has been noted that shortwave reception follows certain definite trends. Stations between 5 and 7 megacycles favor darkness between the transmitter and the receiver. Transmitters working between about 8 and 10 megacycles are best when the station is in a night-time area and the receiver in daylight, so tuners should try for Europeans in this band in the early evening and for Australians near dawn. Below 10 megacycles the difficulty in tuning increases; here the path of the transmission should be as nearly as possible completely in daylight.

At night tune for South America between 5 and 10 megs. Europeans are good in the early evening and some of the higher powered Europeans are good all night. In the early morning tune for Australia and Asia between 6 and 10 megs. During the daytime tune for Europe, Africa and South America below 10 megacycles.

Eastern Time P. M.	Eastern Time						
	12:00	12:15	12:30	12:45	13:00	13:15	13:30
HJ1ABQ, Bar'q'Ua, 6.04Z							
HJ1ABJ, S'ia M'ra, 6.006							
HJ2ABD, Bucar'ra, 6.980							
HJ3ABF, Bogota, 6.200							
HJ3ABH, Bogota, 6.012							
HJ4ABA, Medellin, 11.720							
HJ4ABD, Medellin, 5.780							
HJ4ABE, Medellin, 5.900							
HJ5ABC, Cali, 6.150							
HJ5ABD, Cali, 6.490							
HP5F, Panama Cy., 6.030							
HRN, Tegucigalpa, 5.875							
I2RO, Rome, 9.635							
I2RO, Rome, 11.810							
OAX3D, Lima, 5.780							
OAX3G, Lima, 6.230							
ORL, Brussels, 10.330							
Prado, Riobamba, 6.620							
PRF5, Rio de Jan., 9.565							
RV59, Moscow, 5.296							
TGWA, Guala, Cy., 6.000							
TG1X, Guala, Cy., 9.450							
TG2X, Guala, Cy., 5.940							
TIEF, San Jose, 6.710							
TIGPH, San Jose, 5.820							
TIPG, San Jose, 6.835							
TRCC, San Jose, 6.650							
TR5H, San Ramon, 5.620							
TR8W, Puerto rias, 7.550							
VK3LR, Melbourne, 9.580							
W1XAL, Boston, 6.040							
W1XAL, Boston, 11.790							
W1XK, Mills, 9.570							
W2XAD, Sat'day, 15.330							
W2XAD, Sat'day, 15.330							

Daily
Saturday, Sunday

Sunday

Sunday

M., Tu., Th.

Weekdays

Su., Th.

Weds.

Weekdays

Weekdays

Thursday

Wednesday, Saturday

Monday, Wednesday, Friday

Th., Sa., Su.

M., Tu., W., F.

Weekdays

Sunday

Eastern Time
T. N.

	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45	23:00	23:15	23:30	23:45				
CEC, Santiago, 10,670																																																				
CHNY, Haitiex, 6,110																							Sunday																													
CJRO, Winnipeg, 6,150																								Sunday																												
CJRX, Winnipeg, 11,720																								Sunday																												
CJRX, Winnipeg, 11,720																																																				
COCD, Havana, 6,130																								Weekdays																												
COCD, Havana, 6,130																																																				
COCO, Havana, 9,428																																																				
COJQ, Camaguey, 8,665																																																				
CRCX, Toronto, 6,090																																																				
CTIAA, Lisbon, 9,650																																																				
DJA, Berlin, 9,560																																																				
DJC, Berlin, 6,020																																																				
DJD, Berlin, 11,770																																																				
DJN, Berlin, 9,540																																																				
EAQ, Madrid, 9,892									Saturday																																											
HAT4, Budapest, 9,125																																																				
GSA, Daventry, 6,050																																																				
GSB, Daventry, 9,510																																																				
GSC, Daventry, 9,580																																																				
GSD, Daventry, 11,750																																																				
GSF, Daventry, 15,140																																																				
GSI, Daventry, 15,260																																																				
HBL, Geneva, 9,595																							Sa.																													
HBP, Geneva, 7,797																							Sa.																													
HCB, Quito, 8,900																																																				
HC2ET, Guayaquil, 4,600																																																				
HC2H1, Guayaquil, 6,500																																																				
HIH, San Pedro, 6,514																							Sunday																													
HIX, Trujillo, 5,890																																																				
HIZ, Trujillo, 6,316																								W.ds.																												
HJLABB, Barq'ua, 6,447																																																				
HJLABD, Cartagena, 7,280																																																				
HJLABE, Cartagena, 6,115																																																				

Eastern Time A. M.	Eastern Time						
	00:00	00:15	00:30	00:45	01:00	01:15	01:30
CHNH, Halifax, 6.110							
COCK, Havana, 9.428							
COKG, Santiago, 6.155				Sunday			
DJA, Berlin, 9.560							
DJB, Berlin, 15.200							
DJE, Berlin, 17.760							
DJN, Berlin, 9.540							
DJO, Berlin, 15.280							
HASB, Budapest, 15.370							
HUH, San Pedro, 6.814							
HVJ, Vatican City, 5.970				Sunday			
HVJ, Vatican City, 15.120					Su		
JVM, Nazari, 10.740							
JVT, Nazari, 6.760							
LCT, Jaleq, 6.130							
PCJ, Hilversum, 15.220							
PBI, Hilversum, 17.775					Tuesday		
RNE, Moscow, 12.000							Wednesday, Sunday except Tuesday, Wednesday
RV15, Khabarovsk, 4.273							
VE2ME, Sydney, 9.585				Sunday			
VK3LR, Melbourne, 9.580				Friday			
VK3VIE, Melbourne, 9.480					Monday, Tuesday, Wednesday, Thursday		Sunday
VPD, Suva, 13.075						Saturday Weekdays	
W1XK, Mills, 9.570							
W2XAD, Sebast. Id., 15.330							Sunday
W2XE, Wayne, 21.520							
W8XA1, Cincinnati, 6.060							
W8XX, Pittsburgh, 15.210							
W8XK, Pittsburgh, 21.540							
W9XF, Chicago, 6.100							
YDA6, Bandung, 6.120							
YDB, Sourabaya, 4.470							
YDZ, Pontoise, 11.720							
YDZ, Pontoise, 11.880							
YDZ, Pontoise, 15.250							

Bill Smith Ought to be Ashamed of his Ignorance

Bill has been tuning a radio set for years and yet he knows almost nothing about what happens in his set when he turns the dials.

How can a man be content to remain in ignorance of such a fascinating thing as Radio?

Bill ought to read the **BEGINNER'S STORY OF RADIO** by B. Francis Dashiell, Technical Editor of **RADEX**

It is a book of 96 pages crammed full of information about the elements of Radio, written in simple words and profusely illustrated.

Bound in beautiful leatherette, the price is

Only 50c postpaid

If you live in Ohio, add 2c tax.

The Radex Press Inc.
Conneaut Ohio

AROUND THE CLOCK ON THE SHORTWAVES

The time is given by the 24-hour clock. Noon is always 12:00 but midnight may be either 00:00 or 24:00. To change time to your own clock, subtract twelve from p.m. hours. Thus, 18:00 is 6 p.m. and 23:00 is 11:00 p.m. The time lines used in charts are for Eastern Standard. Those living in other zones may clip out the lines below and paste them over the EST lines. The following strips are for Central Standard Time. For MST, start with 10:00 and 22:00. For PST with 09:00 and 21:00.

Central Time A. M.	23:00
	23:15
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	23:45
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	10:00
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Central Time P. M.	11:00
	11:15
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	12:00
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Central Time P. M.	11:00
	11:15
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	22:00
	22:15
	22:30
	22:45

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XEWZ 1150	100	XFA 1310	5
Mexico City, D. F.		Aguascalientes, Ags.	
XEX 1310	125	XFB 1270	250
Monterrey, N. L.		Jalapa, Ver.	
XEXM 610		XFC 810	350
Mexico City, D. F.		Aguascalientes, Ags.	
XEY 1000	10	XFD 1340	350
Merida, Yuc.		Jalapa, Ver.	
XEYZ 780	10000	XFO 940	5000
Mexico City, D. F.		Mexico City, D. F.	
XEZ 630	500	XFX 610	1000
Merida, Yuc.		Mexico City, D. F.	
XEZZ 1370	100	YNLF 1275	20
San Luis Potosi, S. L. P.		Managua, Nicaragua	
		YNOP 1230	100
		Managua, Nicaragua	
		YNVA 950	30
		Managua, Nicaragua	

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City and State

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THE one who enjoys Radio naturally desires to know something about its seemingly miraculous character. Practically all of the books on Radio are very technical in language and description. RADEX, therefore, commissioned its Technical Editor, B. Francis Dashiell, to write "The Beginners' Story of Radio" in the simplest possible words and terms. This we have published in book form. There are 96 pages profusely illustrated with simple pictures and diagrams, bound in handsome leatherette.

"The Beginners' Story of Radio" takes you on a tour through your own radio set, pointing out in language a young boy can understand, just what each part does and just what happens when you turn the dial. With this book available, no one can be excused for an ignorance of the elements of Radio.

Send for it today.

Price 50 cents postpaid.

THE RADEX Radio Map of the World, eleven by twenty-two inches in size, portrays the countries and principal cities of the world and shows their time zones. On the front cover is a dial marked with the hours of the day. You simply turn this dial to the hour in your zone and instantly the corresponding times for the whole world are shown. The hours where twilight, darkness and dawn occur are graphically shown. The dial also indicates where the time is yesterday, today or tomorrow. Thus if you set the dial for 3:00 a. m. in the Eastern Standard zone, the time is shown in Hawaii as 9:30 p. m. **YESTERDAY**. If set for 9:00 a. m. **EST**, the time in New Zealand is shown as 1:30 a. m. **TOMORROW**.

If you desire to hear a program in Germany which occurs at 6:00 a. m. their time, the dial shows that you must listen at midnight, **EST**. There are no mental calculations to make—no adding nor subtracting—the dial does it all.

The price of the Map of the World with Time-Converting Dial is only 25 cents postpaid.

IT IS so easy to forget to tune in a favorite program that we have prepared what we call the RADEX Radio "Slate." It consists of four pages of heavy Bristol board on which pencil entries may easily be made and erased. The eight columns are ruled into fifteen-minute periods with space for the program, the station and the dial number. All of the evening hours and those of Sunday afternoon are provided for. You merely enter the names of the programs you wish to hear, the station over which you receive it best and the dial number. The "Slate" then reminds you in the most convenient way possible, when and where to tune for the programs you do not want to miss.

Price, 10 cents each, two for 15 cents or four for 25 cents.

THE RADEX PRESS INC.

CONNEAUT, OHIO



Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am surely making good money now. Maybe my story will show you the way to larger earnings also.

I THOUGHT RADIO WAS A PLAYTHING But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!

\$40 a week! Man alive, a year ago I thought anyone making so much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

One day I picked up a magazine and an ad attracted me because it seemed to fit my case. It said "I will show you how to start a spare time or full time Radio service business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it's all about."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would have sounded too good to be true if the promises had not been backed up by nearly 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream. I started to take their course and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$40 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio, Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

Friend—you may not be as bad off as I was—

but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book, "Rich Rewards in Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N.R.I. training. And at the same time they send the book "Rich Rewards in Radio" they'll send you, without any cost or obligation, a Free Lesson to prove that their training is easy, practical, fascinating. The lesson they send "Radio Receiving Troubles—the Cause and Remedy" is valuable. And when you see how simple this lesson is to understand you'll know why many fellows with less than a grammar school education have mastered N.R.I. training and are now making good money as Radio Experts.

You are not placing yourself under any obligation by writing for this material as they will gladly send it to anyone who is ambitious and wants to get ahead. Mail the coupon in an envelope or paste it on a 1c postcard. Just address Mr. J. E. Smith, President, National Radio Institute, Dept. 6FO, Washington, D. C.

J. E. SMITH, President,
National Radio Institute
Dept. 6FO, 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)

Name Age

Address

City State

14XI

THE MAY 1929

RADIO IN INDEX

The Non-Technical Radio Magazine



The Lucky "Mike"

RADEX shows the frequency to which set is tuned as dials are turned, gives exact location of dials for any station in America and identifies programs received without announcement. For any dial and any set.