

RADIO IN DEX

The All-Wave Radio Log Authority

NSE

No. 143

MAY - JUNE, 1941

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SEVENTEENTH YEAR

MAY 1, 1941

NO. 143

Page Taylor, *Editor*
B. Francis Dashiell, *Technical Editor*

Ray LaRocque, *Eastern Editor*
Melvin Fisher, *Western Editor*

Owen P. Callin, *Amateur Editor*

The Reallocation

With no fuss, no trouble, no fanfare, and hardly a hitch, reallocation of the North American radio stations has gone into effect. At a cost which we don't dare to estimate, but which must surely be in the millions, about a thousand stations in seven countries changed their frequencies, or their power, or both, on March 29th.

The changes are all shown in this issue of RADEX, and we hope our indices will be found to be 100% accurate, but frankly, that will be a little too much to hope for. Some of the changes were tentative and there will probably be further changes before this issue reaches the newsstands.

Among the stations with tentative assignments are WJAG in Norfolk, Nebraska, which is assigned to 780 kcs. but will work on 1090 pending adjustment of domestic problems in the United States. WAPI in Birmingham is assigned to 1070 kcs. but will operate on 1170 for a while, and the frequency of 1220 kcs. is being held open to permit assignment of CJKL to it if the station should so elect.

We have tried our best to give you the complete reallocation for all the countries involved, and we sincerely hope that our efforts will meet with your unqualified approval.

Following are the comments of our Eastern Editor, Mr. Ray LaRocque, on reallocation reception in Worcester, Mass.

A check-up of the dials after the North American re-allocation reveals few interesting items. . . . The Mexican all-night, super-power border stations have not all been silenced! XEAW continues to emit its powerful voice, now on 1010 kcs. and not a sign of CBY's or CFCN's signal is audible beneath the roar of the Mexican. Doc Baker's station XENT is also carrying on. They're making hash out of WRVA's signal on 1140 kcs., and continuing well into the night with their sessions.

Outside of this, the re-allocation seems to have worked out very well, though there are still a lot of kinks to be ironed out. Here's how the dial looked from 700 kcs. up to the graveyard channels above 1240 kcs. 730, 750, 760, 770, 790, 830, 840, 850, 870, 880, 890, 920, 960, 970, 980, 990, 1000, 1020, 1030, 1060, 1080, 1090, 1100, 1110, 1120, 1130, 1150, 1160, 1170, 1180, 1190, 1200, 1210, kcs. found the reception as good or better than before the changes with stations heard clearly and without too much interference.

The Cuban station on 740 kcs.,

CMK or CMJN was in the clear, with no QRM at all. . . 780 kcs. was a mess of QRM, though, and WBBM's signal was badly messed up by an unidentified station. . . CKLW was in the clear on 800 kcs., despite threats by XERA that they were going to use that channel after re-allocation. By the way, XERA has yet to make an appearance on any channel. . . CMHQ certainly parks a nifty heterodyne in back of WGY on 810 kcs. . . 820 kcs. is just a jumble of QRM. It should not be thus with the Dallas-Ft. Worth stations having clear sailing. Who's upsetting the applectart here? . . . CMBL is very much in the clear on 860 kcs. . . XEW on 900 kcs. sends into this territory, the most powerful Latin American signal on the dial—and entirely free of QRM, too! . . . 930 kcs. is a hot-bed of QRM, with nothing at all intelligible. . . CBM suffers but slight QRM on 940 kcs. . . 950 kcs. is just a jumble. . . 1050 kcs. has much QRM. . . CBA, though, is loud and clear on 1070 kcs. . .

QUESTIONS

Norman Kane, Pa.: A west coast station on 15490 kcs. heard in parallel with some other station. They were announced as KEM and KES. Can anyone tell me which one I heard? An Army Air Corps station on 7380 kcs. announcing as "Glufftentol" or "Bruktentaw" is also puzzling me. Heard in evenings.

Lionel Jacobs, 524 Atchison St., Pasadena, Calif.: Wants information on WNXI, WSAL, WBBS and KZIB.

Art Cushen, Invercargill, New Zealand: Is puzzled about a Spanish speaking station on 9770 kcs. which signs off at 8:30 p.m. EST.

Allen G. Hooker, Liberty, Sask., Canada: A Spanish speaker announcing "Radio Phillips" on lower end of

25-meter band. A French speaker near 10,000 kcs. announcing "Ici Radio Pulvoovay" (spelled phonetically). A German station with Spanish program on 9550 daily at 4:30 p.m. EST.

R. A. Hayre, 507 N. Cottage, Salem, Ore.: Hears a station sign on at 10 p.m. EST on 6800, but cannot identify it.

Norman H. Kane, Pa.: What is Spanish speaker on 660 kcs. at 10 p.m. EST?

Lee D. Johnson, 89 William St., Portland, Me.: Station on 1530 kcs. (B.R.) heard 7-9 p.m.

C. H. Bell: Please send your address to RADEX. (DXers who know Mr. Bell are requested to bring this notice to his attention.)

ANSWERS

For the benefit of Bill Gabriel, Edwin Gleeson of Moosic, Pa., states that WWL does verify. They have a card showing a view of Loyola University.

William R. Knotts informs Frank Susoreny that the Spanish speaker on WGN's channel was CMBL (B.R.)

Frank B. Lee, Wildwood, N. J. wishes to inform Roy Woollacott that he sent two reports to TIPG with International Reply Coupons and got no replies. He then sent one with an unused Costa Rican stamp and received his verification.

Anyone who is interested in DXing may join the Radex Club. There are no obligations and no fees. Just send your request for membership on a postal card and we will send your membership card.

Radexing with the Radexers

By RAY La ROCQUE

Readers living in the Eastern and Central Standard Time Zones may send their report direct to
Ray LaRocque
 105 Highland St.,
 Worcester, Mas.
 (Please use EST in reports)

Upon the request of Radexers who want something similar to the "Report-O-Meter" used in our shortwave department we respond with an additional Supremacy listing—a Supremacy for Reporting. Ratings are merely your editor's choice and are not based on any definite system of reporting. Perhaps in some future issue we may be able to pin the reports down to certain standards.

SUPREMACY FOR REPORTING: For the readers submitting the most useful information during the two preceding months:

George Wetherill, Jr.
 Robert Kappelon
 Norman H. Kane, Jr.
 Robert Gilchrist
 Elwin Gleason
 David Wing-Scobie.

SUPREME SUPREMACY: For the total number of stations verified:

Thomas, Ohio 2393
 Becker, Ohio 1350
 Botzum, Penna. 1243
 Kappelon, N. J. 1047
 Foerster, Ind. 1043

BEGINNER'S SUPREMACY: Total number of stations verified by DXers who have been verifying stations two years or less:

Landry, P. Q. 19 mo. 376
 Blinn, Kans. 24 mo. 291
 Mecalf, Ohio 14 mo. 269
 Grannis, Calif. 21 mo. 244

OLD TIMER'S SUPREMACY: For the oldest dated verifications:

Podall, Vt. Nov. 1916

Oleson, N. D. Sept. 1922
 Barnhart, Pa. Feb. 1923
 Allen, Calif. Dec. 1923
 Porter, D. C. Dec. 1923

NORTH AMERICA SUPREMACY: For the most states of the U.S., provinces of Canada, states of Mexico, and other individual countries in North America. Each small country counted as a state.

Thomas, Ohio 84
 Botzum, Penna. 82
 Becker, Ohio 77
 Hawkins, N. H. 77
 Daneker, Pa. 76

COUNTRIES VERIFIED SUPREMACY: For the highest total of countries verified:

Reichardt, Mass. 55
 Thomas, Ohio 45
 Botzum, Penna. 40
 Jordan, Penna. 32
 Lippincott, Me. 27
 Becker, Ohio 27

In order to avoid keeping names of inactive DXers on our Supremacy listings we shall, starting with next RADEX, discontinue listing the standings of readers who have failed to submit a report of their standing during the last twelve months. If you have not reported recently a card from you, will keep your name in the lists next month.

CLUB BUTTONS—STATIONERY

Last issue we started our campaign for buttons and stationery for RADEX Club members and we got under way with a list of seven names in favor of the plan. We continue the list from that point this month. When one hundred names have been listed, we will present them to the publishers of RADEX. The names:

8. Julius Hart, Jackson, Mich.
9. R. H. Livingstone, Lansdowne, Penna.
10. H. A. Whittier, Mansfield, Mass.

11. Charles Squires, New York, N. Y.
12. Chester Stedman, Westerly, R. I.
13. George F. White, Stoughton, Mass.
14. Phil Gridley, Holyoke, Mass.
15. Jack Stephenson, Oklahoma City, Okla.
16. Al Renfro, Jr., Johnson City, Tenn.
17. Ted Bamberger, Shaker Heights, Ohio.
18. Norman H. Kane, Jr., Wynnewood, Penna.
19. L. N. Stracener, Jr., Baton Rouge, La.
20. Allen G. Hooker.

PERSONALITIES

Many of the names familiar to these pages are now seeing service for Uncle Sam. . . . Matty Williams (formerly Newark, N. J.) now has his mail addressed Co. No. 6, Barracks E. U. S. Naval Reserve Radio School, Noroton Heights, Conn.

Earl H. Lever (formerly Worcester, Mass.) writes from Fort Bragg, N. C., that their local station is WFNC, and that WSB, WBIG, WBT are usually heard well. Earl can be addressed at Med. Det. 34th F. A. Bn. A. P. O. No. 9, Fort Bragg, N. C., and we're sure he'll welcome mail.

Private Chet Romanowicz (Chet Roman of Chicago) is now seeing active duty at Company L, 53rd Infantry, Fort Ord, Calif. At Fort Ord, it's impossible for Chet to continue his DXing, because the camp, being a new one, does not have full equipment. . . . Merlin Steen of Decorah, Iowa, expects to be in uniform before this message gets into print.

A new 12-tube HALLICRAFTERS SX-25 graces the DX den of Roger Legge, Binghamton, N. Y. . . . L. L. Stracener is finding DX pleasure in his new RCA Victor 5-tube model which he received for Christmas. It replaces a two-tube Grebe CR-9 which old-timers might be able to trace back to the vintage of 1917-18!

A picture postal of the Rockies is on hand from someone who signed it "Matty" and was en route to San Diego. We have several "Matty's" on our list of DX friends and can't seem to identify the handwriting.

THIS 'N' DATA

The FCC proposes to deny the renewal of licenses for WCNW and WMBQ and will grant the facilities of these stations to WWRL. . . . Also a proposal to grant a license to Enrique Abarca Sanfeliz for San Juan, Puerto Rico on 590 kcs. with 5 kw. days, 1 kw. night. . . . Appropriate is the new call for KLAH in Carlsbad, N. Mex.—KAVE. . . . A warning was issued to broadcasters by the FCC, not to negotiate privately with stations in neighboring countries relative to frequency assignments after the North American re-allocations.

Otto Renninger, Jr., of the transmitter staff at KOL is in favor of a more active radio club for the RADEX club and would like to see seals and stationery available to members. Along with stationery Radexer Renninger wants to have printed report forms for writing for verifications, along the lines of those used by DX Clubs in New Zealand.

Greetings to Joe Lippincott who now claims RADEX as his only contact with the DX world since he has of necessity sold his 23-tube Scott and ceased active participation in the hobby. . . . Here's a veri that will make a lot of DXers envious. 4MK—100 watts on 1390 kcs., verified by David Thomas, Proctorville, Ohio. . . . What is the highest transmitting tower in North America? Gordon E. Walberg of Winnipeg, Manitoba, reveals that KFYR's tower from base to top is 704 feet.

KGMB is the station heard by John S. Taggart, Bath, N. Y. (RL). . . . Also for Radexer Taggart, the National Radio Club is still in operation in Buffalo, N. Y., now. Bob Weaver is no longer at the head of the club. . . .

"How about some sort of Report-O-Meter for the B roadcast band?," asks George Wetherill, Jr., Upper Darby down Pennsy way. No sooner said than done, George! . . . George goes on to relate a little tale which pertains to—well we'll let him tell you in his own words: "My DX on the shortwaves is discouraging. I hear

something which I think is pretty good and I tell Norman Kane about it and he says, "Oh, that thing! It comes in R9 every night. Norman, Nat Boonin, and myself go to Upper Darby High, but we didn't know that there was another DXer around here until we saw that Norman Kane in Drexel Hill wrote to RADEX. . . So we looked him up in the local phone book and found that he attended the same school we did!"

BITS AND TIPS

Cortland Parent, Jr., of Peekskill, N. Y., submits a complete list of small networks with their key stations. Whether there is enough interest in this subject to warrant publishing the list is up to the response from Radeys. We will keep the list on file for future use if the readers demand it. . . . The reason George Rockwell of Denver was unable to hear KMYR is that it had not come on the air according to its scheduled date, which was set for Feb. 1. This from David Wing Scobie.

Robert Kappelon of Newark, who sent us that wonderful list of tests last issue has some corrections and additions. WTMJ does not appear to be on at the time reported. . . . KVIC and WMOG also weren't heard during March (or February) checks. WSPB has changed as note below, and WTSP has been heard from 2-3 on almost any day during the first week.

1st week of month: Monday—WMOB from 3:30-4 a.m., Wednesday—WBIR from 2:30-2:55 a.m.

2nd week: Monday—WSLB from 3:40-3:55 a.m., Wednesday—WDSM from 3:55-4:10 a.m., WCOL from 4:4-15 a.m., Saturday—WBLJ from 3:15-3:30 a.m., WMRN from 3.20-3:35 a.m., WBRW from 3:40-3:55 a.m., WDAN from 4:20-4:35 a.m., and WTEL from 5:35-5:50 a.m. . . . Friday—KORN from 2-2:30.

10th of month: WSLB from 2:30-2:45 a.m.

3rd week: Monday—WHKY from 2-2:30 a.m., . . . Wednesday—KPHO from 3-3:30 a.m. . . . Thursday—

WJPF from 3-3:15 a.m. . . . Tuesday—KROD from 3-3:30 a.m.

18th of month: KODL from 4-4:45 a.m.

20th of month: WSPB from 3-3:15 a.m.

4th week: Monday—KHAS from 5:45-6 a.m. . . . Tuesday—WSOO from 2-2:15 a.m. . . . Wednesday—WLOG from 3-3:15 a.m. . . . KWAL from 5-5:15 a.m. and WFHR from 2-2:30 a.m. . . . Friday—WENY from 3-3:15 a.m. . . . Saturday—WJPR from 3-3:30 a.m.

Every Monday: WAOV from 2-2:30 a.m. .

Every Saturday: WLAV from 4-4:15 a.m. except 2nd Sat.

SPRINGFIELD, MASS.—Hal Robie: "I owe a number of letters to fellows who have been kind enough to write concerning questions I have had inserted in RADEX. Due to my work I have not had time to answer them, but I'm going to do it as soon as I have the chance."

UPLAND, IND.—Donald R. Yocom: "I am now technician for Taylor University broadcasts over WLBC on 1340 kcs. at Muncie, Indiana. Taylor is on the air every Sunday from 1:30-2 p.m. Members of the RADEX club who hear this program are invited to report and offer their criticisms and comments. All who write will receive a letter of verification as well as a souvenir of the Taylor University broadcasts. Address communications to Radio Dept., Taylor University, Upland, Indiana."

ROCHESTER, PENNA. — A. G. Schleiter: "I'd like to see a revised F. C. C. monitoring schedule. My log totals 1006 stations in two years, though this includes many deleted stations." (Inasmuch as the F. C. C. has twice refused to send us FCC test schedules with the reply that there is none available, it appears that the broadcasters have succeeded in keeping these list suppressed. A lot of the stations do not want their tests made public and this may be the reason for no new listing of tests. If the readers will co-operate and send in all the F.

C. C. and other regular monthly test schedules they may have picked up from actual listening or other sources, we will attempt to arrange what we receive in the form of a complete index of monthly tests for some future issue of RADEX—RL. Mass.)

PROCTORVILLE, OHIO—David F. Thomas: "I do my DXing on commercial frequencies. Under no condition do I use the amateur bands. I have verified 113 countries (as of Dec. 31, 1940) on the broadcast band and have 2430 different stations verified over 200 more have been received since then, but no official check is made except every six months. Some of my outstanding verifications are FLE (only U. S. A. report), VQ7LO, FN, ESP, VUO-VWCZ, who were using 25 watts on 750 kcs. in Rangoon, India, 2CA when they had only 50 watts, FIUI, SPTT, FPTT, EAJ-7, IIBZ, Droitwich, Deutschlandsender, Warsaw No. 1, OKP, Luxembourg, LYX, WEIN, Brussels No. 1, Kalundborg, and OXF (Greenland)."

PALMERSTON NORTH, NEW ZEALAND—A. R. Lacey, Monrad Street: "Just a few lines to ask for a correspondent. He should live in the East or Central part of the U. S. A. and should be a keen DXer on the broadcast band. I have been DXing here for over eight years and have 650 stations in all parts of the world. Antwerp (100 watts), Basle (500 watts), Dresden, Germany (250 watts) are my best catches. I use a SUPER SKYRIDER SX-17, with a 155 ft. antenna 50 feet high and an 800 ft. single wire which is only 12 feet high. The later gives 2 R's gain over the former and higher antenna."

OSWEGO—N. Y.—Connie Sideris: "XEAW verified by letter, signed by J. G. Montgomery. . . . WFBL now uses 5000 watts and has a new verification card of blue and white."

BRIEF QUOTES

"After hearing 1YA, 2YA, Hamburg, Toulouse and other TA's and TP's I'm finding it hard to get our 250 watters in the mid-west,"—from George Wetherill. . . . After a success-

ful season of DX George discovered he had his antenna attached to his ground terminal, and vice-versa. . . . "Have been DXing for three months on the broadcast band and have 150 stations heard with 75 verifications"—Frank Boudreau.

"WCAR does verify with a card. WGAN on 560 now uses 5 kw. and WPIC now has 1000 watts. XENT and XERA both verified for postage."—Lee D. Johnson. . . . "Radex is a wonderful magazine for beginners" testifies Theodore Taylor of Fort Wayne, Ind. . . . "For reports I log a half hour program with time as near to the quarter minute as I can get them. When reporting I give as much data on past reception as I can recall, and also on the reception of the program to be verified."—Aaron I. Doan, Meadville, Penna.

"Using a 1932 Marconi, I have logged 88 stations, without any verifications as yet"—Gordon E. Walberg, Winnipeg, Man. . . . "I use four receivers for DXing here and have good results with all. They are a HALLICRAFTERS SX-17, a Midwest VT-18, an Arvin, and a PHILCO."—John O. Coleman, Delafield, Wis. . . . Fred Rosencrans of Newburg, N. Y. has just purchased a new HALLICRAFTERS S-20-R. Fred would like to hear from DXers concerning what they consider distance on the broadcast band. Address him at 66 Grand St.

In 13 months of DXing with a six tube Howard, Fred Benkley Jr., China Spring, Texas has heard 468 stations and verified 125. . . . In a year and a half of DXing, George White, Stoughton, Mass. has in his log 20 Canadians, 3 Cubans, 3 Mexicans, Puerto Rico, and VONF. . . . L. A. Mayo of Montreal, P. Q. is starting a new log after re-allocation and hopes to do much better with the present broadcasting set-up.

Arthur E. Foerster of Indianapolis, Ind. does not enter a station in his log until it is verified. KUTA, KFJI, KDON, KGFL, WFIL, WFMJ, and KGFX are the only delinquents. . . . Edward H. Slater, Albany, N. Y. uses

an Emerson five tube model for broadcast DX, and a twelve tube Zenith for shortwave. Results—230 stations on broadcast band and 100 on shortwaves.

Equipped with a copy of RADEX and a new HALLICRAFTERS Sky Champion, Albert Koppe, Des Moines, Iowa started from scratch this season and now has heard 132 stations. . . . Dick Knoth of Pittsburgh, Penna. has logged 60 stations in one month of DXing. . . . Buddy Giles of Wichita Falls, Tex. started DXing on December 31, and now has 32 veries from four countries.

William Schroedes of Scranton, Penna. has been DXing two years. In that time 350 requests have been mailed and 225 replies received.

COVERING THE CONTINENTS Domestic Dialings

WLAW in Lawrence on 680 kcs. is received here in Detroit with a good signal, as is WMEX. (Edmund Ososke, Detroit, Mich.)

WSVS will now verify all reports containing return postage. These should be sent to John C. Kalmbach, Jr., DX announcer. We will not verify any report stating "I heard WSVS on for the FCC on such and such a date and at such a time." Definite proof of reception must be furnished or no QSL will be sent. We shall be pleased to hear from RADEX readers. (John C. Kalmbach, Jr., DX Announcer, WSVS, Buffalo, N. Y.)

WOCB puts in a very fine signal here. Often the best on 1210 kcs. . . . WMOG stands for Wonderful Marshes Of Glynn. (Eugen Francis, Bronx, N. Y.)

WBTA is call for the Batavia, N. Y. station. . . . WLBZ will go to 5000 watts. . . . WOCB announces as West Yarmouth and are heard clearly throughout the day. . . . WOR is now in New York City, not Newark. (S. R. Morse, Bradford, Mass.)

WNBH is now using a new 250 watt xmitter. They recently had a DX program for the N. N. R. C. and the N. R. C. and a prize was awarded to the most distant listener. (Harold



Alvah Cole, of Norfolk, Va., is stepping right along in the contest. He is specializing in amateurs and spends all his spare time twirling the dials.

Schwartz, New Bedford, Mass.)

WTMV's slogan is the "Musical Station". . . . WCMI means Where Coal Meets Iron". . . . WPE.. uses a three tower directional antenna system with their minimum signal in the direction of Detroit. (Geo. Wetherill, Jr., Upper Darby, Penna.)

WHYN will operate with 250 watts full time on 1370 kcs. Main studio and transmitter will be at So. Hadley Falls, but studios will also be maintained in the Holyoke Transcript-Telegram Bldg., and at the Hampshire Gazette Offices in Northampton. WHYN is expected on the air in April and will not be affiliated with any network. (Phil Gridley, Holyoke, Mass.)

WBAB's DX program was mentioned in RADEX. Last year, I was fortunate enough to pull in the DX prize on this contest. (Rev. J. L. Quinton, Greenspond, Nfld.)

WFBL and WFBR were probably the first stations in the east to test on their re-allocation frequencies. . . . WCMI took 171 days to verify. . . . WMCA didn't last long as an all-nighter. Reason: No sponsor. WAWZ celebrated its tenth anniversary March 15th. (Eugene Francis,

Bronx, N. Y.)

WOW is owned and operated by the Woodmen of the World. Veri received in six weeks. . . . WGAR is bidding to become Ohio's third 50 kw. station. . . . (Ted Bamberger—Shaker Heights, Ohio)

WDRC is heard on the second Tuesday of the month with DX program at 4 a.m. . . . WGIL, heard asking for reports, promising verification. . . . WBOW is heard on second Wednesday from 2:45-3 a.m. . . . WDEL is off at midnight with national anthem. . . . WHAM is off at 12:30 a.m. with ditto. . . . WWL leaves its audience at 1:00 a.m. . . . WILL is heard every second Saturday at 2:00 a.m. . . . WJSV pulls the switch nightly at 1:00 a.m. . . . Boston station sign-offs WNAC—1:00 a.m., WBZ—1:00 a.m., WAAB—2:00 a.m., WMEX—midnight, WEEI—1 a.m. . . . WOW is off the air at 2:00 a.m. (Ed Laudansky—Dorchester, Mass.)

When WJBO shifted to its new channel under the re-allocation, it jumped its power to 5000 watts. . . . Wilbur Goldsen generally signs the veries. (L. M. Stracener, Jr., Baton Rouge, La.)

WTMJ will have three new 400 ft. towers, besides the television and FM towers slated to be erected. WTMJ is 5 kw. . . . WISN is also going to increase to 5000 watts. . . . WEMP is heard with a weak signal here, but has recently joined the N. B. C. and may be due for a power boost. (John Coleman, Delafield, Wisc.)

WROL is now operating on 620 kcs. . . . WBTA in Batavia, N. Y. is now being heard daily. . . . (Edward Shirley—Jamestown, N. Y.)

KFPY is off at 3:00 a.m. . . . WJHL has a nice card which it uses only for verification of test programs. . . . WKY is literally throwing EKKO stamps away. They enclosed one and sealed my veri with another. . . . WKAT heard here at 6:30 p.m. while WDRC only 70 airline miles away were operating! . . . (Chester Stedman—Westerly, R. I.)

WSBT will be operated as a full

time station and use 500 watts while WFAM will be discontinued. So if WFAM hasn't ben verified yet, now is the time to get it. (Roger Mais—Mishawka, Ind.)

WCCO verified for me without asking for ten cents. I merely enclosed return postage. (Bob Peterson, Deerfield, Ill.)

WIP goes Mutual full time after March 1, while WFIL will break its affiliations when the present contract expires. . . . WWSW has asked for 940 kcs. with 5 kw. . . . WNEL is signing on about 5:45 a.m. with the "Star Spangled Banner," sung in Spanish. . . . If anyone lacks WOV, they're on till 12:05 a.m. now, last five minutes for news items. (Bob Gilchrist—New York, N. Y.) Also from Bob: WAJR starts up at 6 a.m. . . . WSJS comes through on 1210 at the same time . . . WGH appears to have a clear channel on 1310 when it comes on at 6:30 a.m.

WHYN is now on the air and is operating a full schedule with 250 watts. Verifications are to be signed by Thomas Humphrey, chief engineer. (Milton Benson—South Hadley Falls, Mass.)

WHK is now using 5 kw. . . . (Elmer Rogers—Cleveland, Ohio)

WGL is the smallest Westinghouse station. . . . Does WQDM operate on regular schedule? I heard them on their Jan. FCC test. (Nat Boonin, Upper Darby, Penna.)

WAKR verified by letter signed by Otha Fisher, secretary. (Williams Waldman—Asheville, N. C.)

WMVA ought to be operating by now. Their tower is 175 ft. above the Roxy Theater, while studios are in Thomas Jefferson Hotel. Where can a list of ship-calls be obtained? (Frank Gravely, Martinsville, Va.)

WGN is now relaying all of their programs from the studio to the transmitter via a small FM transmitter on 118,000 kcs. Results are very good. . . . WTCM has been in operation since early in January. . . . Same for WINX. (D. S. Barnes—Chicago, Ill.)

WPIC in Sharon, Penna., verified with a typewritten card, but a few days later a very pretty stainless steel ash-tray was received with their compliments. . . . (L. A. Stracencer, Baton Rouge, La.)

WISH is just beginning construction and little is known as to when it will be on the air. (Arthur E. Foerster, Indianapolis, Ind.)

WDEL in Wilmington, Del. stamps your verie letter and sends it back to you. (William McMahan—Glen Cove, N. Y.)

WMBC is now WJLB. Should this becounted as a new station in the log book? (Norman H. Kane, Wynnewood, Pa.)

WOL has an all-night request program daily. . . . WBBM comes on at 7:45 a.m. and is off at 2:15 a.m. . . .

WABY in Albany, N. Y. operates from 7 a.m. to 1 a.m. (Edward Sluter—Albany, N. Y.)

WHYN in Holyoke heard with excellent signals on equipment tests. . . .

WINX was also heard on tests. (Alton Caldwell-Brockton, Mass.)

WEDC has a nice card with a map of the United States in blue and call letters and print in red. (Frank B. Lee—Wildwood, N. J.)

WSM sent letter of verification and enclosed an EKKO stamp. . . . WTIC also sends a stamp with verification. . . .

WARM, only six miles away, are QRM'd by three stations on same frequency! . . . (Bill & Bob Camp—Moosic, Penna.)

WGBI over-rides CBO on 880, kcs. most evenings. (Lincoln A. Mayo, Montreal, P. Q.)

WNBC announces as Hartford and New Britain. . . . WTHT is not audible here. Usually heard are WESX or WBAB. . . . CBA comes in strong, sometimes blanketing WTIC. . . . WNAB and WMAS come in together and it's quite a job separating them. . . .

WICC actually verifies for return postage and does not require the 10c shown in RADEX. (Stephen Hoffman, Norwich, Conn.)

WMAL is now using 5000 watts with full time privileges. . . . WABC

is 'on at 6:15 a.m., WOR at 5:30; and WEEI at 4:45 a.m. . . . WARD, WBBC, WLTH, and WVFW have agreed to merge, each owner to have 25% interest in the station. WARD will probably be the call letters used. . . .

WIGM will commence some time in June. . . . WPERi n De Land, Fla. ought to be testing and day now. . . .

Also due to hit the ether about April 1st are KBIZ, WALB, WKWK, and WWNY. (David Wing-Scobie, Moore Park, Mich.)

WCMI should be addressed, Radio Block, Ashland, Ky. They test on the second Tuesday of each month at 4:25 a.m. (Robert McConnell, Middletown, Ohio)

Many thanks to Harold A. Whittier, Mansfield, Mass. for a list of veri signers.

West of the Mississippi with the "K" Calls: KFUO verified by letter, enclosing a stamp and sent an attractive souvenir. (Frank B. Lee, Wildwood, N. J.)

KFYR starts the day at 7:30 a.m. and calls it quits at 1:00 a.m. . . .

CBK is on daily from 9 a.m. to 1:30 a.m. . . . KDLR pushes the switch at 7:30 a.m. and pulls it at 11 p.m. (Gordon Walberg, Winnipeg, Man.)

KVOO's card is nicely engraved and on the back of card tells the story of the "Oil Capital of the world." (Francis Hone—Rochester, N. Y.)

KGFV broadcasts a semi-monthly DX program on the second and fourth Monday morning from 2:3 a.m. (Robert McConnell, Middletown, Ohio.)

KCRC in Enid, Okla. has regular DX programs from 12:01-4 a.m. on the third Wednesday of the month in alternate months starting in Feb. (Bob Peterson—Deerfield, Ill.)

KENO in Las Vegas, Nev., is well received here after WGRC signs off at 2:05 a.m. (Bob Camp—Moosic, Penna.)

KSWO is the call of the Lawton, Okla. station. No other information is available at present. (Jack Stephenson, Oklahoma City, Okla.)

KRIC in Beaumont, Texas operates with 250 watts and has a neat card.

... KPMC is being heard through the early morning QRM. (Ed. Laudansky, Dorchester, Mass.)

KFAB comes on at 5:45 a.m. and will use 50 kw. after re-allocation. ... KFBC is on the air as an N. B. C. Blue station. (David Wing-Scobie, Moore Park, Mich.)

WHIZ means We're Here In Zanesville; KQRS means Kome Visit Rock Springs; and KTHS means Kome To Hot Springs. (Nat Boonin, Upper Darby, Penna.)

KGIR in Butte, Mont. sends a nice souvenir veri. Printed on a thin sheet of copper it is accompanied with a copper watch-fob and a wind shield sticker. (Chester Stedman—Westerly, R. I.)

KXOK on 630 kcs. joined the NBC Blue network and KWK is now an exclusive Mutual outlet. (Walter Scholz, Webster Groves, Mo.)

KVOR is heard here nightly with R7 signal. ... KHSL was logged at 2 a.m. with R7 signal. ... KERN is on at 9:15 a.m. and off at 3 a.m. ... KVOA starts its day at 7:55 a.m. and terminates at 1:15 a.m. (Norman H. Kane, Wynnewood, Pa.)

KGMB is now on 590 kcs. from 1320 kcs. ... KXOK is on 630 kcs. now. ... KWKH seems to be on all night at present and WHOM have gone back to a 24-hour station. ... (Merlin Steen, Decorah, Iowa)

KWK are on from 5 a.m. to 11:30 p.m. (L. A. Stracencer, Baton Rouge, La.)

KOCY replaces KTOK as MBS outlet. ... KBIX and KRLH boosted their power to 250 watts after the re-allocation. ... (Bob Gilchrist, New York, N. Y.)

KYW increased its power to 50 kw. to eliminate XEAW, but the Mexican still messed up KYW's signal badly. (George Wetherill, Jr., Upper Darby, Penna.)

Thanks greatly to M. W. Oliver of Houston, Texas for a list of veri sign-

ers, and to Albert Koppe of Des Moines, Iowa for a similar list.

Bahama Islands: ZNS is a regular here, often being heard in the evenings with an R9 signal and no QRM from WGY. (George Wetherill)

Canada: CKCL is heard here with a good signal in the daytime. They verified with a stamp and letter. Norman H. Kane, Jr.)

CJRC is Manitoba's Friendly Station; CKY—The Voice of Manitoba; CJGX—Western Canada's Farm Station; and CJCA—The Voice of the Great Northwest. (Gordon Walberg, Winnipeg, Man.)

CHSJ sent a folder showing studio A and B and their master control panel (Nat Boonin)

CHSJ carries programs direct from London, including the "Britain Speaks" program at 10:30 p.m. (Edward Slutter, Albany, N. Y.)

CBM heard on a test program announced as "CBM Maryville." (Hank Bennett)

CKTB's veri is a beautiful silver tower on a backing of blue. ... CKCR insists that they are in Kitchener and not in Waterloo as RADEX lists them. (Bob Gilchrist)

CKOC in Hamilton, Ont. and CKY in Winnipeg, Man. both included verification stamps with their verification. (Bob and Bill Camp, Moosic, Penna.)

CKLW signs off the air at 4 a.m. (Ed Laudansky)

CJCB was heard on 1390 kcs. and evidently have shifted to that channel. (Rev. J. L. Quinton, Greenspond, Nfld.)

CHLT come on at 6:45 a.m. and continue until 11:05 p.m. (Lincoln A. Mayo, Montreal, P. Q.)

A good portion of the re-allocation changes in the east of Canada were outlined by John W. Dean for which we say "thanks."

Newfoundland: VONF has been heard here several times with not as good a signal as it should have. CMKN causes a lot of QRM. (George Wetherill, Jr.)

**YOU BENEFIT FIVE WAYS
SEE PAGE 96**

VOCM is now on 1005 kcs. regularly and has never replied to my reports. I have sent several. . . . VOWR went back to 681 kcs., again! Rev. J. L. Quinton, Greenspond, Nfld.)

Latin America

Argentina: LRA is using a power of 10 kw. . . . They verified and a neat white card with crest. Print is black and call in pale blue. (George Wetherill, Jr., Rev. J. L. Quinton, and Bob Brown)

Brazil: PRA-4 is heard signing on at a few minutes after 5 on Sunday mornings (George Wetherill).

Colombia: HJAH on 1080 kcs. is often heard from 1-3 on Sunday mornings. (Robert Kappelon)

Costa Rica: TIEP is definitely on 825 kcs. and not 830 kcs! Norman Kane, and George Wetherill)

TIEP-2 is another Costa Rican on 1225 kcs. (George Wetherill)

TIPG on 625 kcs. puts in a swell signal evenings. This station's card is attractive showing views of the transmitter, military band, and station call letters. (George Wetherill and Ed Laudansky)

TIGPH is listed as 1255 kcs., but I have seen it reported on 605 kcs. (Robert Kappelon) Note—evidently TIGPH is now on 605 kcs., as George Wetherill reports a TIEP-2 on 1225 kcs.—RL)

Cuba: A new Cuban on 1345 kcs. has been heard from 1-2 a.m. Quality has been poor. . . . (Norman H. Kane)

CMJN, CMW, and CMBG were all heard in the clear at 11 p.m. . . . CMM heard on the air as late as 2:15 a.m. . . . CMKN on 630 kcs. was heard well at 2:30 a.m. . . . CMX is better than some of our local Boston stations. (Ed Laudansky, Dorchester, Mass.)

CMC was heard on a DX program for the IDA and signed off at 2:45

a.m. (Hal Robie, Springfield, Mass., and L. A. Stracener)

CMQ verifies with a nice card showing a picture of their transmitter building and vertical mast. Bill Van Metre, Muncie, Ind.)

Guatemala: TGX on 1400 kcs. verified with an attractive card in many colors with calls in large blue letters. This station also owns TGX-1 on 6130 and 5850 kcs. Anyone know its power? (George Wetherill)

TGW on 1520 kcs. heard late in the evening (Francis Fellers, Amherst, Mass.)

Mexico: Earlier in this department we reported that time for re-allocation was drawing near as we wrote the copy. It's now a day later and a check of the channels in the early morning hours reveal not a trace of Brinkley, Baker, XEAW, and other border broadcasters which put so potent signal over most of the U. S. A. (RL—Mass.)

Through the kindness of Fred A. Ingham of XEAC we learn of the following changes in Mexico as a result of the re-allocation. XEAC goes to 690 kcs. with 5000 watts; . . . XEMO remains on 860 kcs. . . . XERB uses 50 kw. on 1090 kcs. . . . XERB is on 1010 kcs. now with 500 watts. . . . XEGM is a new station on 950 kcs. with 2500 watts. . . . XEON is now on 1140 kcs. with 2000 watts, and XEC is on 1340 kcs. with 100 watts. All of the above stations are in Tiajuana, with the exception of XERB which is in Rosarito Beach. . . . XELO has been assigned to 1190 kcs. and must move to a different location but this assignment is being contested by the station.

XEAZ on 1450 kcs. at Reynosa with 250 watts is now on the air. . . . XEFE in Nuevo Laredo on 930 kcs., now from 910 kcs. . . . XEAZ is good here all day on 1450 kcs. . . . XEFE besides shifting frequency also jumped its power to 1000 watts. (Samuel Meyer, Laredo, Texas)

NEL on 1150 kcs. (B. R.) and XEM on 920 kcs. are both heard here daily with strong signal. (L. A. Stracener)

Panama: HOK's address is the same as HP5K—Aptdo 33, Colon. HOK's card is lemon colored and different from that used by HP5K, though the latter call appears on the HOK veri. (Rev. J. L. Quinton, Greenspond, Nfld.)

Peru: OAX4A on 854 kcs. "Radio Nacional" was heard several evenings with R8 signal with much interference from WABC and WWL. . . . (Norman H. Kane)

Puerto Rico: WKAQ verifies with a large imitation parchment diploma. Very nice! WKAQ is on with a program of waltz music from 5:30-6 p.m. EST. (Rev. J. L. Quinton and Norman H. Kane)

WPAB comes on the air daily at 5:45 a.m. and is in the clear until 6 a.m. (Frank B. Lee, Wildwood, N. J.)

WPRA on 780 kcs. (B. R.) with 1000 watts was heard on FCC tests. (Edward Sluter—Albany, N. Y.)

T A Tuning

France: Radio Lyons on 1393 kcs., Radio Nacional Francais on 1320 kcs., and another French station on 776 kcs. are the only stations reported since last RADEX. (Norman H. Kane and Frank B. Lee)

Great Britain: Stations on 767 kcs. and 668 kcs. were heard with R5-6 signals for a short period. (Bob Brown—Goshen, Ind.)

T P Topics

Australia: 4QS on 760 kcs. heard at 5:20 a.m. with R6 signal. (Bob Brown, Goshen, Ind.)

4 QS and 3Gi were heard here but signals were not strong enough to verify. (George Wetherill, Jr.)

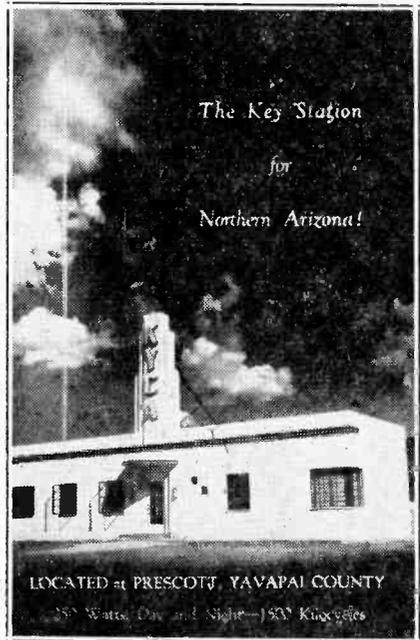
3LO, 3GI, 6AM, and 7NT were heard here with signal strength suf-

ficient to permit copying veri material. (Frank B. Lee)

Hawaii: KGMB is heard here on Tuesday mornings when WIP is not on the air. A fainter signal is heard behind them which Erick Johnson says is 2YA. Can this be so? (George Wetherill) 2YA is on 570 kcs.—RL

KHBC on 1200 kcs. heard on Feb. 4th over KGFJ at sign off. (Bob Brown)

New Zealand: 1YA on 650 kcs. with 10 kw. seems to be the most commonly reported New Zealand station. Reported by Weston Richards, and Frank B. Lee.



QSL card from KYCA, Prescott, Ariz., received through the courtesy of Jim Walker and Clarence L. Mustoe.

**YOUR COPY OF RADEX
DELIVERED TO YOUR HOME.
SEE PAGE 96**

The Radex Contest

The purpose of the Contests is to learn who can receive the greatest number of verifications from radio stations during one year, and all verifications entered must confirm stations heard during this period.

It is not too late to enter the big Radex DX Contest. Copies of the November - December, 1940 issue of RADEX, in which appeared Coupon Number One, and the other back numbers, can still be obtained from our offices in Emerson, N. J.

For the benefit of those of our readers who may have missed our announcement in previous issues, the RADEX Contests cover four divisions of DXing: All Wave, Shortwave, Broadcast Band and Amateur. The Contest began on October 1st, and will continue until September 30, 1941, and as soon thereafter as possible the names of the winners will be published in RADEX.

More New Prizes

Prof. Carlo Spatari, the founder of the Spatari Language Foundation, has offered an additional prize of 400 gummed seals to be donated to Radex Contest winners. This prize is in addition to his previous offer of a Spatari Radio Language book, which is offered to the Third Place winner in the Shortwave Division.

The 400 seals will be divided between the four contests. The person in each division who hears the greatest number of Latin-American stations will receive 100 seals. "Latin-American" stations are the Spanish and Portuguese-speaking stations in the Western Hemisphere.

The Bowman-Meade Printing Co. (W9KXL Print), 819 Wyandotte St., Kansas City, Mo., has kindly offered twelve prizes to be offered to winners in the Amateur Contest. Two prizes will be 200 QSL or SWL cards each, printed in three colors, and ten prizes

will consist of credit blanks which will entitle the winners to receive 50% more cards on their next order of cards from W9KXL. Most of the SWL cards in circulation are from the Bowman-Meade Press, and we are sure our contestants appreciate this generous offer as much as we do.

The ten Credit blanks will go to the highest scorer in each of the nine W-districts, and the tenth prize for those outside the U.S.A. This offer is for the Amateur Division only.

The Rules of the Contest

Contestants will be allowed two months after the close of the Contests, until December 1, 1941, to receive verifications from distant stations heard prior to the official closing date of the Contests. It will not be necessary for contestants to send us their verifications until we request them to do so.

Each contestant may enter as many Divisions of the Contests as he wishes.

A contestant can take first prize in only one contest. If a person should happen to place first in two divisions, he will be offered his choice of first prize in one of the divisions, and second prize in the other.

Points will be computed by multiplying your total number of verifications by the number of countries represented. If you have 700 verifications from 20 different countries, your score would be 700 times 20, or 14,000.

Only one verification from each station will be accepted. If a station works on several frequencies, employing the same call letters on all frequencies, it can be counted as a separate station for each frequency, PROVIDED the frequency on which the station was heard is clearly shown on the verification.

Verifications from stations can, of course, be in any form whatever—

QSL cards, postal cards, letters, international reply cards, or cards prepared by the listener and properly signed by the station.

With countries being eliminated and new ones being formed nearly every week, we believe that the fairest way to determine the nationality of a verification will be to be guided by the postage stamp under which it is mailed. Thus, if a DXer hears a country called Radioland, and re-

ceives his verification with a Radioland stamp on it, it will still be Radioland even if the country should later become a "protectorate" of Costa Rica. However, if after the change, he heard the same station again and it was verified as a Costa Rican station, he could count it as another country. This may not be the most perfect way to handle such a situation, but we believe its simplicity commends it.

All Wave Division

The person who receives the greatest number of points from all radio stations using voice, from 10 to 500,000 kcs., will be the All Wave Champion. The All Wave Division includes all radio stations—broadcasters, amateurs, commercials, ships, police, etc., but not stations using code.

The Amateur Division

The person who receives the greatest number of points from amateur stations transmitting within the recognized amateur bands will be declared the Amateur Champion.

Broadcast Band Division

The person who received the greatest number of points from broadcasting stations operating on frequencies between 500 and 1600 kcs., located anywhere in the world, will be declared the Broadcast Band Champion.

Shortwave Broadcast Division

The person who receives the greatest number of points from stations broadcasting programs of entertainment between the frequencies of 1600 and 500,000 kcs. will be titled the Shortwave Champion.

SEND STANDING NOW

All contest entries must be sent on the coupons which will be printed in every issue of RADEX, and failure to send a coupon will eliminate a contestant. To insure the receipt of your copy of every issue of RADEX, it is suggested that you send in a subscription, which is only \$1.25 per year. See the subscription blank on page 96.

Do not hold the coupons until the end of the contest, but send each of them, as soon as possible, to RADEX,

Radex Contest Prizes

All Wave Contest

Hallicrafters Skyrider Defiant Receiver, SX24

2nd Prize, \$30 in cash

3rd Prize, 1 Year Subscription and Membership in the World DX Alliance

Amateur Contest

1st Prize, \$15 in cash

2nd Prize, Subscription to Radex for two years

3rd Prize, 1 Year Subscription and Membership in the World DX Alliance

Broadcast Band Contest

Philco Strap-around Portable Radio

2nd Prize, \$15 in cash

3rd Prize, 1 Year Subscription and Membership in the World DX Alliance

Shortwave Contest

1st Prize, \$15 in cash

2nd Prize, 1 Year Subscription and Membership in the World DX Alliance

3rd Prize, Spatari Radio Language Book

Special Award

To the person in each division who verifies the most Latin-American stations:

100 gummed, 3-color Spatari Radio Language Seals

Emerson, N. J. Each coupon may be held, however, until the next one is in hand; thus, send Coupons 1, 2, and 3 now, if you have not already done so; send Coupon No. 4 when you have received your next issue of RADEX.

Questions and Answers

- Q. Don't the European stations below 500 kcs. count?
- A. Yes. We have extended the All-Wave Division of the contest so it includes all stations from 10 kcs. to 500,000 kcs. In other words, any station in the world that uses voice can be counted in the All-Wave Division.
- Q. Does Newfoundland count as a separate country from Canada?
- A. Yes. Newfoundland IS a separate country.
- Q. What is to be done about stations that send shortwave varies in answer to BCB reports?
- A. We feel inclined to count them as shortwave varies since proof of broadcast band reception is lacking. Comments from our readers on this ticklish point will be appreciated.
- Q. How are you going to count the stations after the reallocation? It seems they should be counted only once.

A. We shall count them only once. We will accept one verification from each station, whether on the old or the new frequency, but not on both.

Q. When I sent in Coupon No. 1, I entered only the BCB Contest. Now I wish to enter the shortwave contest. May I?

A. Yes. You may enter or change any division at any time. We require all six coupons, but your score on coupon number six is what will count.

In response to many requests, we shall count the territories and possessions of Puerto Rico, Hawaii, Alaska, Philippines and the Canal Zone as separate countries. Australia's territory of Papua shall also be considered as a country. Since Tasmania, however, is geographically very close to Australia, we believe Tasmania should be considered as merely a part of Australia.

The Standings

The standings of the leading fifteen contestants in the four divisions of the contest are shown in the tables which follow. The number shown in parentheses is the number of the last coupon received on the day this article was written.

The Radex Publishing Co.,
12 Locust Ave.,
Emerson, N. J.

Date.....

Gentlemen:

My entry in the RADEX Contests follows:

	A	B	C
	Stations Verified Since Oct. 1, 1940	Countries Verified	Points
Broadcast Band
Shortwave
Amateur
All Wave

(Column A times
Column B equals
Column C).

Name

Address

City and State



All Wave

1. 4158, Wm. Knotts (2) Penns Grove, N. J.
2. 3596, Roger Legge (2), Binghamton, N. Y.
3. 3260, David Thomas (2), Proctorville, Ohio.
4. 1640, Geo. Wetherill (2), Upper Darby, Pa.
5. 500, Norman Maguire (3), Stamford, Conn.
6. 432, Ed. Laudansky (2), Dorchester, Mass.
7. 426, Lemuel Cavileer (1), Had-don Heights, N. J.
8. 305, Bill Scott (2), Johnson City, Tenn.
9. 288, L. N. Stracener (1), Baton Rouge, La.
10. 165, Robt. Gilchrist (2), New York City.
11. 436, Roland Burson (2), Mansfield, Ohio.
12. 96, Donald Fraser (1), Detroit, Mich.
13. 90, Connie Sideris (1), Oswego, N. Y.
14. 70, Harold Mannix (1), Cincinnati, Ohio.
15. 42, Harry Johnson (1), Los Angeles, Calif.

Broadcast Band

1. 2700, David F. Thomas (2), Proctorville, Ohio.
2. 1570, George Wetherill (2), Upper Darby, Pa.
3. 1015, N. B. Boonin (2), Upper Darby, Pa.
4. 590, Frank B. Lee (2), Wildwood, N. J.
5. 564, Chester Stedman (2), West-erly, R. I.
6. 525, Frank Susoreny (2), E. Cli-cago, Ind.
7. 500, Norman Maguire (3), Stam-ford, Conn.
8. 427, Roy Woollacott (2), Roches-ter, N. Y.
9. 415, Harold Hutton (1), Rome, N. Y.
10. 405, Philip Gridley (2), Holyoke, Mass.
11. 376, Wm. Knotts (2), Penns Grove, N. J.
12. 340, Weston Richards (2), Zion,

Ill.

13. 192, Lemuel Cavileer (1), Had-don Heights, N. J.
14. 188, L. N. Stracener (1), Baton Rouge, La.
15. 180, Bill Scott (2), Johnson City, Tenn.
15. 180, Ed Laudansky (2), Dorches-ter, Mass.

Other contestants in the Broadcast Band Division who have more than 100 points are Robert Gilchrist of New York City (165); James Weaver, Elkhart, Ind. (155); Aaron Doan, Meadville, Pa. (126); W. K. Rosen-berger, Yankton, S. Dak. (102), and Frank Douglas, Ansonia, Conn. (102).

Shortwave

1. 1704, Roger Legge (2), Binghamton, N. Y.
2. 403, Wm. Knotts (2), Penns Grove, N. J.
3. 48, Ed Laudansky (2), Dorches-ter, Mass.
4. 40, A. G. Hooker (1), Liberty, Sask., Canada.
5. 28, Bill Scott (2), Johnson City, Tenn.
6. 25, R. A. Hayre (1), Salem, Ore.
7. 20, E. L. Hoffman (1) S. Roan-oke, Va.
7. 20, L. N. Stracener (1), Baton Rouge, La.
8. 12, Harold Mannix (1), Cincin-nati, Ohio.
8. 12, Al Renfro, Jr. (1), Johnson City, Tenn.
9. 8, Geo. Wetherill (2), Upper Darby, Pa.
9. 8, Roland Burson (2), Mans-field, Ohio.
10. 5, Arthur Cushen (1), Invercar-gill, New Zealand.
11. 2, Kern Anderson (1), Detroit, Mich.

All the other contestants in the Shortwave Division are tied in Twelfth Place, with 1 point.

Amateur

1. 362, Roger Crabill (1), Washing-ton, D. C.
2. 292, Wm. Knotts (2), Penns Grove, N. J.
3. 228, Mike Unger (2), Detroit, Mich.

4. 154, Merton Meade (2), Kansas City, Mo.
5. 42, Edgar Newman (2), Valley Stream, N. Y.
5. 42, Roland Burson (2), Mansfield, Ohio.
6. 30, Ed Laudansky (2), Dorchester, Mass.
7. 25, Bill Scott (2), Johnson City, Tenn.
8. 21, Harry O'Meara (1), Manchester Mass.
9. 9 Connie Sideris (1) Oswego, N. Y.
10. 7, Kern Anderson (1), Detroit, Mich.
11. 3, Harold Mannix (1), Cincinnati, Ohio.
11. 3, Al Renfro (1), Johnson City, Tenn.
11. 3, Geo. Wetherill (2), Upper Darby, Pa.

All the other contestants in the Amateur Division are tied in twelfth place with one point.

Chicago Radio Convention

The Third Annual IDA-NRC-IRT Mid-Summer Convention will be held under the auspices of the World Wide Dial Club on July 19th, at the Klas' Restaurant, 5734 W. Cermak Road, Cicero, Ill., a suburb of Chicago. The convention will begin with a banquet at 7:30 p.m. on July 19th, and the registration fee of \$1.50 will include a turkey dinner, entertainment, dancing, and beer and soft drinks for those who want them.

The registration fee should be sent to R. R. Irwin, 3920 Cortland Ave., Chicago, before July 12. Other information concerning the convention, travel or hotels will be advanced on application to G. T. Beyer, 3226 Sunnyside Ave., Chicago.

**YOUR COPIES OF RADEX WILL
BE RESERVED. SEE PAGE 96**

The Radex Club



By ANNE TENNA

It is indeed gratifying to find such an increasingly large number of people becoming interested in DX. Since the last meeting of The Radex Club we have received over a hundred requests for membership, bringing our total up to 2224 members from twenty-seven different countries. Our fast growing club now has two more states, Nevada and Arkansas, classed as solid black states on the map printed at the head of this column. This leaves but five more states, Idaho, Utah, South Dakota, Mississippi and South Carolina with less than five members each. Let us hope that by the next meeting the entire map of our great country will be completely covered.

Russell Cain of Reno, Nev., has been solely responsible for all the members from his state, and Al Renfro, Jr. of Johnson City, Tenn., is working towards the goal of 18 members for his city. Many thanks to Russell and Al, and the other members who are taking personal interest in the club, to help it grow to be the largest radio club in the world.

Special thanks are due to W9KXL of Kansas City, Mo., whose mention of The Radex Club in his bulletin has resulted in the enrollment of many new members.

The United States Army is well represented with four doughboys entering the fold this month. Stationed at Scott Field, Ill., are Virgil Brown, M. A. Murphy and Charles R. Mumphy, all flying cadets. Virgil Brown

takes time out after flying to DX on a two-tube home-built receiver and expects soon to tune in the world on a Hallicrafters Sky Champion. He wants the Blue Grass State, his home State of Kentucky, to receive credit for his membership, Happy Landings, Cadets, from all your fellow club members.

Way down in the Canal Zone, Pvt. Glenn Elliott also uses a Hallicrafters after the day's marching is over.

We are happy to note requests for membership from the fair sex is increasing. The ladies have been rather shy so far in this hobby, and we are glad to see them sharing the receiver with their "better halves." All you XYL's who have been waiting for some other XYL to step forward first should be pleased to know that we have about a hundred lady members now; so don't hesitate to send in your request for membership.

In answer to the many inquiries concerning membership in The Radex Club, there are no dues nor other obligations, aside from an interest in DXing as a hobby. Simply send a postal card with your name and address on it and we'll do the rest. Any of you who have sent questions on other radio topics will find them answered in our new question box, appearing for the first time in this issue of RADEX.

STATIONS DOWN UNDER

Through the efforts of Elwin Gleason of Moosic, Pa. and George Wetherill, Jr., of Upper Darby, Pa., we are able to offer this complete list of New Zealand stations, with some schedules.

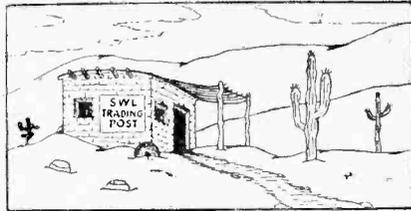
570	2YA	Wellington	6000 watts
		(1 p.m. to 6:30 a.m.)	
650	1YA	Auckland	10000 watts
		(1 p.m. to 6:30 a.m.)	
680	4YZ	Invercargill	5000 watts
		(2 p.m. to 5 a.m.)	
720	3YA	Christchurch	10000 watts
		(1 p.m. to 6:30 a.m.)	
760	2YH	Napier	5000 watts
		(2 p.m. to 5 a.m.)	
790	4YA	Dunedin	10000 watts
		(1 p.m. to 6:30 a.m.)	
840	2YC	Wellington	5000 watts
		(midnight to 5:30 a.m.)	
880	1YX	Auckland	150 watts
920	2YN	Nelson	30 watts
940	3ZR	Greymouth	100 watts
990	2YD	Wellington	200 watts

1070	1ZB	Auckland	1000 watts
		(1 p.m. to 7 a.m.)	
1130	2ZB	Wellington	1000 watts
		(1 p.m. to 7 a.m.)	
1140	4YO	Dunedin	150 watts
1200	3YL	Christchurch	300 watts
1250	1ZM	Auckland	1000 watts
		(midnight to 5:30 a.m.)	
1280	3ZB	Dunedin	1000 watts
		(1 p.m. to 7 a.m.)	
1400	2ZA	Palmerton-North	200 watts

We are indebted to George Wetherill, Jr., for the following complete list of Australian broadcast stations:

550	2CR	Central Regional, N.S.W.
560	6WA	Southwest Regional, W.A.
580	3WV	Western Regional, Vic.
600	7ZL	Hobart, Tas.
610	2FC	Sydney, N.S.W.
620	3AR	Melbourne, Vic.
630	4QN	North Regional, Qsld.
640	5CK	North Regional, S.A.
660	2DU	Dubbo, N.S.W.
		7BU Burnie, Tas.
670	2CO	Riverina Regional, N.S.W.
680	2HR	Singleton, N.S.W.
		4AT Atherton, Qsld.
		7QT Queenstown, Tas.
690	6WF	Perth, W.A.
700	2NR	Northern Rivers Regional, N.S.W.
710	7NT	North Regional, Tas.
720	6GF	Goldfields Regional, W.A.
730	5CL	Adelaide, S.A.
740	2BL	Sydney, N.S.W.
760	4QS	Darling Downs Reg. Qsld.
770	3LO	Melbourne, Vic.
780	2KA	Katoomba, N.S.W.
		4TO Townsville, Qsld.
790	6WN	Perth, W.A.
		2BH Broken Hill, N.S.W.
800	5QG	Brisbane, Qsld.
810	5RM	Renmark, S.A.
830	3GI	Gippsland Regional, Vic.
850	2CY	Canberra, A.C.T.
860	4GR	Toowoomba, Qsld.
		7HO Hobart, Tas.
870	2GB	Sydney, N.S.W.
880	3UL	Warragul, Vic.
		4WK Warwick, Qsld.
		6PR Perth, W.A.
890	5AN	Adelaide, S.A.
900	2LM	Lismore, N.S.W.
		7AD Devenport, Tas.
910	4RK	Rockhampton Regional, Qsld.
920	2XL	Cooma, N.S.W.
		4VL Charleville, Qsld.
930	3UZ	Melbourne, Vic.
940	4QR	Brisbane, Qsld.
950	2UE	Sydney, N.S.W.
960	5DN	Adelaide, S.A.
970	3BO	Bendigo, Vic.
		4AY Avr, Qsld.
980	2KM	Kempsey, N.S.W.
		6AM Northam, W.A.
990	2GZ	Orange, N.S.W.
1000	4MB	Maryborough, Qsld.
		4CA Cairns, Qsld.
		7EX Launceston, Tas.
1010	3HA	Hamilton, Vic.
1020	2KY	Sydney, N.S.W.
1030	3DB	Melbourne, Vic.
1040	5PI	Crystal Brook, S.A.
1050	2CA	Canberra, A.C.T.
1060	4SB	Kingaroy, Qsld.
1070	2FC	Griffith, N.S.W.
		6VB Katanning, W.A.
1080	2LT	Lithgow, N.S.W.
		4RC Rockhampton, Qsld.
1090	2LK	Lubeck, Vic.
1100	4LG	Longreach, Qsld.

- 7LA Launceston, Tas.
 1110 2UW Sydney, N.S.W.
 1120 4BC Brisbane, Qsld.
 1130 2AD Armidale, N.S.W.
 JCS Colac, Vic.
 6ML Perth, W.A.
 1140 2HD Newcastle, N.S.W.
 1150 2WG Wagga, N.S.W.
 1160 7ZR Hobart, Tas.
 1170 2NZ Inverell, N.S.W.
 1180 3KZ Melbourne, Vic.
 1190 2CH Sydney, N.S.W.
 1200 5KA Adelaide, S.A.
 1210 2GF Grafton, N.S.W.
 3YB Warrnambool, Vic.
 6KG Kalgoorlie, W.A.
 1220 4AK Oakey, Qsld.
 1230 2NC Hunter River Regional, N.S.W.
 1240 3TR Sale, Vic.
 61X Perth, W.A.
 1260 3SR Shepparton, Vic.
 1270 2SM Sydney, N.S.W.
 1280 3AW Melbourne, Vic.
 1290 4BK Brisbane, Qsld.
 1300 2FM Tamworth, N.S.W.
 1310 5AD Adelaide, S.A.
 1320 3BA Ballarat, Vic.
 6PM Freemantle, W.A.
 1330 3SH Swan Hill, Vic.
 4BU Bundaberg, Qsld.
 1340 2LF Young, N.S.W.
 6TZ Darnanup, W.A.
 1350 3GL Geelong, Vic.
 1360 3MA Mildura, Vic.
 4PM Port Moresby, Qsld.
 1370 2MO Guunedah, N.S.W.
 5SE Mt. Gambier, S.A.
 6GE Geraldton, W.A.
 1380 4BI Brisbane, Qsld.
 1390 2GN Goulburn, N.S.W.
 4MK Mackay, Qsld.
 1400 2PK Parkes, N.S.W.
 5AU Port Augusta, S.A.
 1410 2KO Newcastle, N.S.W.
 1420 3XY Melbourne, Vic.
 1430 2WL Wollongong, N.S.W.
 1440 2QN Deniliquin, N.S.W.
 41P Ipswich, Qsld.
 1450 2MG Mudgee, N.S.W.
 7DY Derby, Tas.
 1460 2CK Cessnock, N.S.W.
 5MU Murray Bridge, S.A.
 1470 2MV Murwillumbah, N.S.W.
 3CV Charleston, Vic.
 1480 2AY Albury, N.S.W.
 1490 2RE Bega, N.S.W.
 4ZR Roma, Qsld.
 1500 2BS Bathurst, N.S.W.
 3AK Melbourne, Vic.



Walton Knight, Hallwood, Acco. Co., Va. (SWL cards and correspondence).

Carroll H. Clark, 806 Second St., Snohomish, Wash. (SWL cards).

Austin B. Wardman, 105 Kenmore Ave., Forest Hills, Penna. (SWL cards, swap stamps).

Nicola Cannata, 1003 S. Halsted St., Chicago, Ill. (SWL cards).

Myron Talman, 2001 E. 29th St., Kansas City, Mo. (SWL cards).

Glenn Thormann, Westbury, N. Y. (SWL cards and correspondence).

Allen G. Hooker, Liberty, Sask., Canada, (correspondence).

Edgar W. Keller, 2847 W. Madison St., Chicago, Ill. (correspondence with Pacific Coast residents and wants Chicago Radex Club members to call on him).

Connie Sideris, 144 E. 5th St., Oswego, N. Y. (SWL cards correspondence).

Clarence I. Cook, 920 Gwinn St., Medina, N. Y. (Swap SWL cards and photos).

George J. Hiss, 8915 Harratt St., W. Hollywood, Calif. (Will exchange his card for foreign SWL's).

O. Ingmar Oleson, Postmaster, Ambrose, N. Dakota. (Will correspond with users of Scott or McMurdo Silver Masterpiece receivers).

Wm. Anderman, Jr., 5913 N. Camac St., Philadelphia, Penna. (SWL cards).

Harold B. Schubert, 703 S. Evergreen St., Britt, Iowa. (SWL cards).

N. Bernard Boonin, 246 S. Fairview Ave., Upper Darby, Penna. (Correspond with users of standard home radios).

Charles A. Black, 432 W. Hope Ave., York, Penna. (SWL cards).

Lionel Jacobs, 534 Atchison St.,

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Pasadena, Calif. (Correspondence).

Jose Carriazo, Jr., Factoria No. 62, Havana, Cuba. (SWL cards, magazines, newspapers, correspondence).

James Creevay, 2020 Washington Ave., Bronx, N. Y. (SWL cards).

Earle S. Miller, Box 663, East Worcester, N. Y. (SWL cards).

Anthony Arsenault (VE1FR), Box 444, Summerside, P.E.I., Canada. (SWL cards).

Vernon Lee Gibbs, Route 3, Lexington, Ky. (Swap SWL cards, Block letter post cards, correspondence).

Bill Camp, 1042 Water St., Moosic, Penna. (SWL cards).

G. H. Tuncil, 510 Oildale Drive, Bakersfield, Calif. (SWL cards).

Russell Cain, 1054 Holcomb St., Reno, Nevada, (SWL cards; swappers must send 1c for return postage as Russell has been swamped with requests for his card).

Charles Squires, 607 W. 136th St., New York, N. Y. (SWL cards; foreigners will receive his card, post card view of New York City and a letter).

Al Renfro Jr., 103 Maple St., Johnson City, Tenn. (SWL cards and correspondence).

Chester Stedman, 19 Summer St., Westerly, Rhode Island. (Correspondence).

Notices for the exchange of SWL cards will not be printed in this column unless the request is accompanied by the senders' own card. No fee is charged for these notices, and RADEX assumes no responsibility.

Old Issues Available

Nearly all issues of Radex from 1931 until 1940 are available at the new reduced price of ten cents each, sent postpaid.

Following are some selected back numbers:

The Oceania Broadcasting Stations, Sept. '38.

Tuning South Pacific Stations, Tuning South Americans, and a list of

South American Broadcasting Stations, Oct. '38.

This Hobby Called DXing, the International Prefixes, the QSA and R. Codes, Jan. '39.

Stations of New Zealand, April '39.

The 1940 Issues

Jan.-Feb. High Frequency Broadcasting Stations; Radio Stations from 4320 to 5750 kcs; North American Broadcasting Stations with Week-day time on the air.

Mar.-Apr. International Prefixes; Radio Stations from 5858 to 8580 kcs.; North American Broadcasting Stations with mailing addresses.

May-June Turner Dial Discusses Servicing; Venezuela Stations; Peruvian Stations; La Paz, Bolivia Stations; Colombian Stations; Frequency Checks; Radio Stations from 8600 to 15270 kcs.; North American Broadcasting Stations with names of verification signers.

July-Aug. Radio Stations from 15280 to 39360 kcs.; Frequency Modulation Channels.

Sept.-Oct. The Radex Contest: QSA and R Codes; This Hobby Called DXing; The Spanish Alphabet; International Prefixes; Radio Stations from 39380 to 138960 kcs.; Television Stations; Frequency Modulated Stations.

Nov.-Dec. Proposed Reallocations and their Effect; Commencing a new complete list of the World's Radio Stations, frequencies 1600 to 2490; this list includes the police stations of North America.

On The West Coast

By MELVIN FISHER

Believe it or not, fellows, your correspondent is not going to say much this time, because reception reports are so numerous that yours truly is going to slump back into an easy chair, put a satisfied smirk on his face, and just listen.

But first, we must not forget our contest standings and the Big Three competition. Latest reports available at the time of this writing show the standings of West Coasters as follows:

All Wave Division: Harry Johnson, 42 points.

Broadcast Band Division: Bob Brown, 280; Harry Johnson, 6.

Shortwave Division: A. G. Hooker, 40; Arthur Cushen, 5.

This Department's Distant Contests: Richard Brauer of Los Angeles leads in the shortwave section with WRUL, and also in the broadcast band section with CBL.

The Big Three: The competition for places in the Big Three this time was tooth and nail. Reports were so plentiful, and so many fellows really deserved a place, that for a time your poor editor didn't know whether to throw in the towel and award his mother-in-law first place, or to give up his III-A classification in the draft and join the army. But after coming down to earth we came up with the following:

1. Allen G. Hooker
2. Arthur Cushen
3. George J. Hiss

Honorable mention is due the following RADEXers: Charles Benedict and R. V. Caldwell. It looks like the boys outside the U. S. A. are pointing the way this time. Hooker is from Canada and Cushen from New Zealand.

OUR READERS SAY—

Gerald Webb, Long Beach, Calif.,

writes, "KNX comes on the air at 4:45 am, and KRKD at 6. Also on at 5 am is KFOX, and all the following sign-on at 6 am: KGER, KHJ, XELO, KPO, KGO, NEMO and KMJ. KFVD was listed as an all-nighter. This is not true. KFVD operates from 10 pm until sun-down of the following day, when they go off the air in favor of WHO. (Ed. Note: When we listed KFVD as an all-nighter we had in mind the fact that they operated from midnight, when the majority of stations sign off, on through the night). Also, KFAC is a 24-hour station. KTAR is now using its 5000 watt transmitter."

Gerald sends information on some small networks which may be of interest. The Yankee Network, he says, comprises WNAC, WTIC, WEAN, WICC, WCSH, WLLH, WSAR, WLBZ, WFEA, WNBH, WBRK, WNLC, WLNH, WRDO, WCOU, WHAI and WSYB.

The Texas State Network includes KRBC, KFDA, KNOW, KFDM, KBST, KRIS, WRR, KFJZ, KLUF, KXYZ, KFRO, KFYO, KPLT, KGKL, KABC, KRRV, KTEM, KCMC, KGKB, WACO, KRGV, KWFT and KVWC. This network is a member of the Mutual System.

Members of the Quaker Network are: WFIL, WRAW, WSAW, WEST, WORK, WAZL, WGAL, WGBI, WBRE, WKBO, WRAK, WJAC, WLEU, WTBO and WWSW.

Reporters living in the Mountain Standard and Pacific Standard Time Zones may send their reports direct to

**Melvin Fisher
1401 Bancroft Way
Berkeley, Calif.**

(Please use PST in reports).

The New York Broadcasting System has WINS, WABY, WIBX, WSYR, WMBO, WSAY, WKBW, and WJTN.

With WMCA as its key station, the Inter City Broadcasting System includes WIP, WGAL, WORK, WILM and WCBM.

WAAB in Boston is the key station of the Colonial Network and member stations are WEAN, WICC, WLLH, WSAR, WSPR, WLBZ, WFEA, WNBH, WTHT, WATR, WBRK, WNLC, WLNH, WRDO, WHAI, WCOU and WSYB. These stations are also members of the MBS.

KOY, KTUC and KSUN form the Arizona Network, being also affiliates of the CBS.

"I'm leaving the states for the Philippines, but I shall be back for the 1941-42 season," promises Forrest I. Webb of Salinas, Calif. "I intend to have an FM receiver by then. I've logged 517 stations on the BCB, and have verified all states, Alaska, Hawaii, Cuba, six Canadian provinces, fifteen Mexican states, New Zealand and Australia."

R. V. Caldwell of Neskowin, Ore. tells us that KWIL in Albany, Ore. had its initial broadcast on 1210 kcs on Jan. 14th at 6 pm. Owned by the Willamette Valley Broadcasting Co., they are a member of the MBS.

"I have been DXing for about four months," Franklin Williams writes from Glendale, Calif. "I have verified 11 states so far, my farthest being WWL. Incidentally, in reply to Bill Gabriel, Jr., WWL verifies for a good report and one cent postage."

From Pasadena, Calif., Lionel Jacobs reports that KPPC is trying to get on the air full time as a semi-commercial station. Using 100 watts, it is operated by the Pasadena Presbyterian Church. At present KPPC is on the air Wednesday evenings and Sundays for brief periods. If anyone would like a veri from KMPC, Lionel says to write to "Andy and Virginia," c/o KMPC, Beverly Hills, Calif.

Everett Davies of Sacramento, Calif. operates W6DON and is a transmitter "op" at KFBK, a position he has held for the past eleven years. He has been a ham operator for the past fifteen years and has DXed since 1921 on all bands. He uses a HALLICRAFTERS SX-17. He says, "For a lot of years I have made a hobby of collecting information on commercial radio stations of all types . . . have thousands of listings of "K" calls of historical interest dating as far back as 1912 . . . have information on all of the old broadcast stations that ever had K calls. If any of the readers are interested in this subject I would be glad to correspond with them—I am looking for more information, too. Will buy old call books, etc." RADEXERS can get in touch with Everett as follows: RFD #8, Box 4240, Sacramento, Calif., or address him in care of KFBK.

Art Cushen, Invercargill, N. Z.—"Logged KFVB, KOA, KFI, and NEMO. Other morning loggings are KMOX, KITE, KFAC, KFVD, KSL, KOIN, KOL and KELA. KNX and KFBK can be heard all the year round. Reports are out to KDB, WJSV, KOMA, XEAW, XENT, WCKY, CFCN, KPMC, KWKH, KGMB, and WSMB. Europeans can be heard in the Equinox period, but Nice is the only one verified. Latest Yanks heard are KRLD, KSTP, KPO, KMPC, KQW, KGO, KMO and KMED"

Frank Pace, Bellingham, Wash.—"I have about thirty reports out now, including WCCO, WWL, KRLD, WFAA, KSTP, KITE, WSB and WLW. In South Dakota I built up a log of about 500 stations, but so far here I have a log of only 200. Stations that didn't verify for me were NELO, KXL, KUTA, KVCV and KRE."

Clarence L. Mustoe, Brady, Mont.—"KGMB is very good until sign-off at 2:30 a.m. on 590 k/c. WLNH in New Hampshire adds one more state to my log. I am having my first

SWL cards made, so I hope to make some good trades. WRZ has been heard coming in over NENT. KGNC call letters stand for "Christ Gives New Courage." I have found that WCAW, WWVA, and WBT sign on one hour earlier than before. My best varies this year have been WSLB, WJLS, WAPI, WGTM, WMIN, WKBN, WIBM, WCAR, and WBEN. After about three years of writing I got a veri from WMIN. The slogan of WJLS is "The Voice of the Smokeless Coal Capital" and CKOV is "The Voice of Okanagan." CKOV was heard testing at 2:06 a.m."

Keith Davis, Berkeley, Calif.—"KPHO was heard with very strong signals at 1 a.m., KFXM in San Bernardino was logged at midnight. KRKD broadcasts on 1120 k/c until 7 p.m., and then KFSG takes over."

H. H. Crow, Jr., Sacramento, Calif.—"In reply to your query in RADEX, KRLC and KQRS have verified for me. I wonder if you could tell me sign-on times for WIBA, WDOD and WEBC. I am sixteen years old and have been DXing two and a half years. I have verified 65 stations and heard 40+ in the United States. My father is W6AP and has been an amateur since 1910. I hope to become an amateur myself soon. KFDA was heard on 1200 k/c on Saturday, Feb. 1, from 2-2:30 a.m. with its regular FCC test. I don't know whether it is the first day of the month, or the first Saturday. KBPS had a special WDXA program on the same morning and KSAN kept silent."

"Ted" Vasilopoulos, W. Los Angeles, Calif.—"One Friday morning I feel asleep with KGMB pounding in my ears R8—about 2:30 a.m. a Japanese station woke me up. (JOAK1) It was so strong I felt I could get him later and look for other stations. About 3:30 I turned back to 590 k/c and a Cuban had come on (CMCY) and ruined the Japanese station! TGW has been heard between six and



Melvin Fisher, ye west coast editor, appears to be quite happy over the many fine reports he's been getting from his readers.

eight p.m., and a Cuban on 1510 k/c. My vertical rod is working fine, and is much better than the inverted L antenna—less noise and almost as much "sock." Strange DX out here! In the east when the sun came up the stations lost their power—out here they linger until 8:30 and 9:30 sometimes."

R. A. Butts, Easton, Wash—"KIRO will operate with 50,000 watts power soon. How come I have been hearing XEAW on 1000 k/c lately?"

James Dagg, Aldergrove, B. C.—"KQW is heard all day here during the winter. CKMO uses 300 ft. of stranded wire for an antenna. It hangs from the Sun Tower, a steel building. It is heard very poorly in West Vancouver as the tower is in the way of the signals. CFQC in Saskatchewan is organizing a new Canadian network. The station itself has been completely built over."

Wm. Cunningham, Hollywood, Calif.—“XEOK, Progreso, Yucatan is a new station on 1400 k/c with 1000 watts. XEFW, 810 k/c, XES and XECL will go to 5000 watts; XERC, XEFE (930 k/c) XEDA, XEQW XECZ and XELZ to 1000 watts; XEBS and XEL to 750 watts; XEJP and XEBW to 600 watts; XEBZ, XEFB, XEK, XEMX, XERL, XEDK to 500 watts; XEGC and XEFC to 250 watts; and XEBU to 100 watts. XES will move to 990 k/c from 1300. XEOA, XEXH and XEWE are deleted.”

Russell Cain, Reno, Nev.—“I heard my first TPs at 1:30 a.m. on Feb. 16th. They were JOAK1 and KGMB, both on 590 k/c. KGMB was first heard and during a period of fading JOAK1 came in for five or six minutes.”

KIRO, which now uses 10,000 watts, conducts a Time Klock Klub from 6:15 to 7 a.m. with Carroll Foster announcing. They request all listeners to join the club—membership is free. (Rogers).

KEYS, Corpus Christi, Tex. has been heard testing on 1490 kcs, and KUJ on 1420 kcs. WNEL has been heard, using 5000 watts. KAVE is the new call of KLAH, Carlsbad, N. Mex., the change being made in honor of the Carlsbad Caverns. The first station heard testing on its new assignment was KSTP, on 1500 kcs., on March 6th. (H. H. Crow, Jr.).

KZRH, Manila, and KZRC, Cebu City, are now members of the NBC. SURVEYING THE SHORTWAVES

In this department we try each issue to bring you the latest news on the shortwave stations—new stations, changes in frequencies, etc., as well as reports on how well and how often the regular stations are being heard.

Aden

ZNR, 12,110 k/c, Aden, broadcasts 9:50-9 a.m. (Cushen, N. Z.)

Algiers

TPZ, 12,120 k/c, and TPZ3, 8960 k/c, are excellent from 9-11 a.m. (Cushen, N. Z.) TPZ2, Algiers, 8860

k/c, heard 2:30-2:55 p.m. with R4-5 signals. A lady announces as “Ici Radio Alger”, in French. A gong is sounded at intervals. (Hooker—Sask.)

Australia

VLK7 is excellent on 11840 k/c at 10 p.m. VLW2, 9560 k/c, very good at 3 a.m. (Cushen, N. Z.) VLW5, Perth, heard on 6180 k/c closing at 9:30 p.m. (Cushen, N. Z.) VLQ2, 11870 k/c, Sydney, was heard with clear signals at 7:30 a.m. (Hooker).

Bahamas

ZNS2, 6090 k/c, heard Sunday evening with church services 6-6:30 p.m., followed by a resume of programs until sign-off at 6:37 p.m. Signal good, but hampered by interference from XEBF and CRCX, presumably. (RF)

Belgian Congo

“Congo Belge”, 10140 k/c, heard 11-11:45 a.m. with a good signal. (Cushen—N. Z.)

Brazil

PSK on 8200 k/c heard with a fair signal. (Hiss) PPQ, 11670 k/c, Rio de Janeiro, was heard with an R4 signal working LSX2, Buenos Aires. Announcements were in English and Spanish. (Hooker—Sask.)

Canada

CJRX, Winnipeg, heard at 4:15 p.m. on 11720 k/c with an R6 signal. (Williams) CKFX, 6080 k/c, Vancouver, powered at 10 watts, is my best verification to date. (Cushen—N. Z.) CKFX was heard with a very good signal from 9 p.m. to midnight. (enedict). CJRX heard relaying CJRC with R9 plus signal 5:30-6 p.m. on 11720 k/c. (Hiss).

China

XGOY, 9645 k/c, has a good signal from 7-8 a.m. A man gives news in English. (Hiss) XPSA, 8480 k/c, Kweiyang, heard signing off with weak signals at 7 a.m. (Hooker—Sask.)

Colombia

HJCF, Bogota, 9710 k/c, logged with R9 signal at 6:30 p.m. on Sunday. HJFA on 6055 k/c has a strong signal around 6 p.m. (Hiss)

Costa Rica

TIX on 5830 k/c was heard signing off at 9 p.m. with a series of cuckoo calls, and a song in English, "Good Night". TIPG on 9620 k/c heard signing off in English at 8:30 p.m. with an R7-8 signal. (Hiss) TIPG heard from 8:30-8:45 p.m. with organ music. (Hooker—Sask.)

Cuba

COCQ on 8830 k/c came in R8 at 5:30 p.m. relaying CMQ. COCX, 9200 k/c, is heard nightly with an R6 signal. COKG, Santiago, heard on 8960 k/c with news from 4-4:30 p.m. Identification is four bells and a bird call. COCO on 8700 k/c was heard signing off in English at 10 p.m. (Hooker—Sask.)

Curacao

PJC on 5938 k/c heard 6-7:30 p.m. with a good signal, but lots of fading, and QRM from a Spanish speaking station, presumably OAX2A. Announcements are in English and Dutch, sometimes Spanish, preceded by four notes on a gong. Sign-off was at 7:38 p.m. (Hiss)

Dutch East Indies

YDH4, 30 watts, 3420 k/c, one of the many heard Dutch East Indies stations. They were logged at 7 a.m. (Cushen—N. Z.)

Ecuador

HCJB, 12460 k/c, heard at 8:20 p.m. with a very good signal. (Williams). HCJB verified with a large card with picture of station, list of their frequencies—they also operate a broadcast band station on 970 k/c, a short-wave experimental on 27,985 k/c, a station on 4107 k/c, and a ham station on 20 meters. There is a large red, yellow, and blue strip down across the whole card. (Hiss) HCJB comes in here R9. (Benedict) HGODA, Guayaquil, 9445 kcs., heard daily at 4:30 p.m. with R7 signal. (Hooker—Sask.) HCJB has two English programs, at 3 p.m. and 6 p.m. They request ten cents in coin for a monthly souvenir. (Hiss).

England

GRU is a new BBC station on 9460 k/c. (Cushen—N. Z.) GSL on 6110

k/c was good at 11 p.m. (Hiss)

French Equatorial Africa

"Radio Brazzaville", 11950 k/c, opens at 12:30 p.m. with a good signal. The station is operated by the Free French. (Cushen—N. Z.) They broadcast at 7:45 a.m. to Canada and the United States. (Hooker—Sask.)

French Indo-China

"Radio Saigon" excellent at 3 a.m. on 6180 k/c. (Cushen—N. Z.) Heard on 11780 k/c with an R6-7 signal 7:40-8 a.m. (Hooker—Sask.) "Saigon" heard well on 9675 k/c, 6116 k/c, and 11780 k/c. News in English given by a lady 7:30-8 a.m. (Hiss)

French West Africa

"Radio Dakar" on 9395 k/c at 12:15-1 p.m. with English news at 1 p.m. (Cushen—N. Z.)

Germany

DXY, 9525 k/c, is a new station heard almost every evening carrying the North American program, and is heard better than DXB. (Matzen) DXB on 9610 k/c puts in an R5-6 signal at 11:30 a.m. DJZ, 11800 k/c, comes in with weak signals about 5:15 p.m. DZC, 10290 k/c, logged on a program of band music with good signals at 4:58 p.m. (Hooker—Sask.)

Greece

SVM, 9935 k/c, Athens, heard 11:45 until noon with news in English. Signal was R5-6. They announce as "Athens calling." (Hooker—Sask.)

Guatemala

TGWA logged on 15170 k/c with marimba music from 2-2:15 p.m. with R9 signals. (RF) TGWB on 6480 k/c is best heard here. (Hiss)

Haiti

HH3W, Port-au-Prince, heard every evening on 9780 k/c, though not very well. Bells and English announcements at 5 p.m. (Hooker—Sask.) HH2S, 5940 k/c, heard R9 at times between 7-7:30 p.m.

Hungary

HAT-4, Budapest, announces as "Radio Budapest, Hungary, Calling". They were heard very well on 9125 k/c at 4:35-4:50 p.m., with news in English at 4:48. (Hooker—Sask.)

India

VUD4, 11830 k/c, heard very well closing at 9:15 a.m. VUD, 3450 k/c, was logged with a good signal at 7 a.m. (Cushen—N. Z.)

Italy

2RO3 on 9630 k/c was heard at 6 p.m. in parallel with 2RO18 on 9760 k/c. (Hiss)

Japan

JLG4 has been heard very well here lately from 5-7 p.m. with news in English at 5:15. They operate on 15,105 k/c. (Benedict) JZI, 9535 k/c, and JZJ, 11800 k/c, broadcast English news in parallel 7:45-8 a.m. (Hooker, Hiss) JVZ, 11815 k/c, and JLG4, 15105 k/c, were heard at 5 p.m. broadcasting to Canada. Signals were R6-7. (Hooker—Sask.) The Japanese station reported as broadcasting in parallel with JLG4 is JVZ, 11815 k/c. On pg. 19 of Jan.-Feb. issue of RA-DEX, the call was given as JZG, JVZ, and JZZ, but I definitely heard the call announced as follows: "J as in Japan, V as in victory, and Z as in Zero." (Matzen) Latest schedule of broadcasts to North America and Hawaii are as follows: JZK, 15160 k/c, and JLG4, 15105 k/c, from 5-7 p.m.; JZK and JZJ, 11800 k/c, from 7:30-10 p.m., and JZK from 10:30 p.m. to 12:30 a.m. (RX)

Manchukuo

MTCY has been heard with R9 plus signals on 6125 k/c from 4-5 a.m., though the signal is usually weaker. (Hiss)

Martinique

"Radio Martinique", Fort de France, sounds chimes before and after its announcement of "Ici Radio Martinique". They are on 9703 k/c and were heard 4-4:30 p.m. with a variable signal. (Hooker—Sask.)

Mexico

XEXA, 6170 k/c, has good signals until 12:30 a.m. (Cushen, N. Z.) XEBR on 11820 k/c was heard R9 at 4:30 p.m. (Hiss)

Mozambique

CR7BE verified with a nice card in various shades of green. (Cushen—N. Z.)

Panama

HP5G, 11775 k/, was heard testing with very good signals at 9 p.m. (Cushen—N. Z.) HP5G heard with news in English at 4-4:30 p.m. (Hooker—Sask.)

Peru

OAX2A, 5940 k/c, and OAX4T, 9556 k/c, are heard very well in the evenings. (Hiss)

Philippines

KZIB, 6060 k/c, was heard R9 with an English program at 2 a.m. KZRF on 6140 k/c is fair around 2-3 a.m. (Hiss) KZRH on 9635 k/c was heard with "Manila Night Hawk" program at 7:20 a.m. Signal was R6. (Hooker—Sask.) KZRC, 6160 k/c, Cebu City, has been heard signing off in English at 7 a.m. (RF)

Portugal

CSW-7 at Lisbon on 9740 k/c comes in daily with recorded musical selections. Portuguese and English announcements are heard at 11 a. m., made by male and female announcers. (Hooker-Sask.)

San Salvador

YSPB, 6570 k/c, closes at 9 p. m., with a weak signal. (Cushen-N. Z.)

YSD on 7894 k/c is heard R7-8 almost every night with marimba music. They close at 8 p. m., with clock striking and a bird call. (Hooker-Sask.)

Straits Settlements

ZHJ, Penang, has good signals at 3 a.m., on 6090 k/c. (Cushen-N. Z.)

Switzerland

HBH, 18480 k/c, very good Friday mornings at 5:30 a.m. (Cushen-N. Z.)

Thailand

HSP5, 1175 k/c, Bangkok, heard with good signals at 7 a. m. (Cushen.)

Union of South Africa

ZRL heard at 8:45 p. m. with setting up exercises. At 9 p.m. a clock strikes 7, with announcements and a bugle call. (Hooker, Hiss.)

United States

WLWO heard on new frequency of 11710 k/c 2:30-3 p.m. and later relaying NBC. (RF) Heard with a fair signal at noon. (Cushen.) WRUL sent a note stating they do not issue veries

any more. (Hiss.) WNBI broadcasts on 17780 k/c from 6 a.m. to 1 p.m., directed to Europe, and on the same frequency from 1-8 p.m., directed to South America. Then from 9-10 they broadcast on 6100 k/c directed to Mexico and Central America. WRCA transmits 9 a.m. to 12:30 p.m. on 21,630 k/c, directed to South America and from 1-10 p.m. on 9670 k/c directed toward South America. Power of WRCA and WNBI is 25,000 watts. (Benedict.) W2XGB, Hicksville, N. Y., powered at 10,000 watts, heard on 12,862 k/c with R8-9 signal on a special test in the late morning. (Hooker, Cushen.) WLWO on 9590 k/c logged at 8:30 p.m. with R9 plus signal. (Hiss.) KGEI now operates from 4-9:15 p.m. on 15330 k/c and on 9670 k/c from 4-9 a.m. and 10-12 p.m. WBOS now operates on 11,870 k/c, repalcing WPIT. (Benedict.)

Uruguay

CXA19, Montevideo, heard with very strong signals on 11710 k/c around 6 p.m. (Hiss.) CXA19 came in with R5 signals at 5 p.m. (Hooker.)

SHORTWAVE NOTES

"Radio Levant, Barub, Lebanon, Syria, was heard on 7980 kcs. from 8:30-9 p.m. PST. Volume was good but there was considerable fading. This fine catch was reported by Russel Cain of Reno, Nev., who says he is sure of the frequency, although he has seen reports of this station on 8030 kcs.

A new amateur station in the Philippines, KA1GH, works on 20 and 40. Will have veri cards by the time this is in print, and wants reports.

A notice from MTCY gives their address as 601 Daido-Taigai, Hsing-king, Manchukuo. The frequencies of this station are shown as 11775, 9545 and 6125 kcs, with 20,000 watts power.

KNBQ, 2912 kcs, Amarillo, Texas, heard well KAYJ, 2726 kcs., Rock Springs, Wyo., heard on a frequency test from 8:30-8:40 PST. (Benedict.)

W4XA is heard very well from 11

a.m. to 3 p.m., with 1000 watts on 26150 kcs. W2XBG, heard testing on 17310, verified with two pictures of their studio and transmitter. W9XPD is very good on 25900 kcs. best around noon. Powered at 100 watts, they are owned by the Pultizer Publishing Co., St. Louis. (Benedict.)

List of Reporters

- RF—Your West Coast Editor, Berkeley, Calif.
 R839—Wm. Cunningham, Hollywood, Calif.
 R881—Clarence Lee Mustoe, Brady, Mont.
 R1098—Ted E. Matzen, Miles City, Mont.
 R1151—Robert Brown, Goshen, Ind.
 R1213—H. H. Crow, Jr., Sacramento, Calif.
 R1220, N.Z.-3—Arthur Cushen, Invercargill, N. Z.
 R1245—R. A. Hayre, Salem, Ore.
 R1539—James A. Dagg, Aldergrove, B. C.
 R1829, Nev.-2—Russell Cain, Reno, Nev.
 R1849—Allen G. Hooker, Liberty, Sask.
 R1870—Frank Macedo, Victoria, B. C. (Home Address).
 R1905—Forrest L. Webb, Salinas, Calif.
 R1919—George J. Hiss, West Hollywood, Calif.
 R2016—R. V. Caldwell, Neskowin, Ore.
 R2030—Keith Davis, Berkeley, Calif.
 R2041—T. P. Vasilopoulos, West Los Angeles, Calif.
 R2045—Bob Bell, Alhambra, Calif.
 R2077—Charles Benedict, Altadena, Calif.
 Gerald Webb, Long Beach, Calif.
 Franklin Williams, Glendale, Calif.
 Lionel Jacobs, Pasadena, Calif.

Everett Davies, Sacramento, Calif.

Frank Pace, Bellingham, Wash.

R. A. Butts, Easton, Wash.

Richard Brauer, Los Angeles, Calif.

Paul Rogers, Cheney, Wash.
Carroll H. Clark, Snohomish, Wash.

Harold Balaam, Lynwood, Calif.

Walter D. Carroll, Alamosa, Colo.

Fred Anderson, Fort Mills, P. I.

(e); CO2US (e); CO2VK (ef); CO2WL (e); CO2WM (e); CO2WR (e); CO2WW (e); CO2WX (fg); CO2XY (e); CO2YW (e); CO6OM (e); CO7AB (e); CO7AS (e); CO7CR (e); CO7VP (ae); CO8AC (e); CO8AP (e); CO8JK (e); CO8MP (aejkm); CX2CO (1).

EA7BA (1); EA9AI (1); HC1FG (e); HC1VT (1); HC2AC (e); HC2CC (el); HC2HC (b); HC2HP (ae); HH2B (e); HH2HB (e); HH2PB (e); HH4AS (e); HH5PA (e); H12K (e); H13N (e); H15X (e); H16Q (e); H17B (f); H17G (ei); H17I (e); KH1AK (e); HK1AL (bg); HK1AW (e); HK3A (e); HK3CC (eg); HK3CI (e); HK3CK (e); HK3CO (e); HK3CY (e); HK4DH (e); HK4DJ (1); HK4FA (e); HP1A (e); HR5C (1); KB4FEX (e); KC4USA (abej); KC4USB (abefj); KD4GYM (abgjk); KF6JEJ (d); K4DDH (a); K4DEE (e); K4DSE (aeij); K4EJF (e); K4EMG (ae); K4ENT (efm); K4EZR (gj); K4FAB (aeim); K4FAY (ej); K4FCG (eik); K4FKC (aeifj); K4GPG (j); K4GTH (afgj); K4JTH (b); K4KD (f); K5AM (e); K5AP (aek); K66BNR (e); K6FRZ (e); K6GAS (e); K6G1T (e); K61IW (e); K61QN (eim); K6KGA (e); K6LCV (eb); K6LEJ (din); K6LKN (e); K6MVA (e); K6NYD (ej); K6OJI (dei); K6OQE (d); K6OTH (e); K6PCF (e); K6PHD (e); K6PLV (e); K6PLZ (el); K6PTW (em); K6RVU (e); K6SRZ (deim); K6SWV (e); K6SYM (e); K7BUB (ef); K7CBF (ef); K7GSC (e); K7GTP (a); K7HAR (ej); K7HXC (e).

Amateur Calls Heard

The names and addresses of persons reporting the stations are indicated by small letters following the call signs. Key to the small letters is given at the end of the column.

Ten Meters

KB4HBX (fm); KC4USB (n); KD4GYM (n); K4EZR (i); K4FAB (h); K4GIG (i); K4GTS (hi); K5AQ (h); K61KN (h); K6LEJ (h); K6LFM (h); K6MVB (fh); K6MXM (h); K6OQE (h); K6OQM (h); K6PAS (h); K6PIR (h); K6QLG (h); K6QUG (h); K6RCB (h); K6RVG (hi); K6SWV (fh); K6TAI (h); K7BUB (n); K7CBF (n); K7HXC (n); K7HMN (i).

20 Meters

CE1AC (e); CE1AR (e); CE1AS (e); CE1BC (e); CE2AW (b); CE3BV (k); CE3CG (ef); CE3CZ (el); CE3LR (k); CE4DW (e); CO2AM (e); CO2AR (a); CO2BA (ek); CO2CK (efi); CO2CO (e); CO2RD (ae); CO2GG (e); CO2GL (aeifgk); CO2GY (e); CO2HL (fg); CO2HY (e); CO2JH (eg); CO2JJ (egik); CO2KY (e); CO2LA (ef); CO2LL (ek); CO2LY (aei); CO2MA (aeik); CO2MG (e); CO2RF (e); CO2RL (g); CO2RR (efg); CO2RO (e); CO2RS (a); CO2RZ (e); CO2SV

LU1CE (e); LU1DA (e); LU1HA (e); LU1KA (e); LU2AW (e); LU2CA (e); LU3AA (e); LU4BC (el); LU4CZ (e); LU5AN (el); LU5CK (e); LU7AC (e); LU7KB (e); LU7BI (e); LU8AV (b); LU9HA (1); NY1AA (b); NY4AB (aij); NY4AD (efim); OA4AI (e); OA4C (be); OA4CT (k); OA4R (ek); PY1BE (e); PY1IM (e); YP1MS (1); PY2AC (e); PY2AB (e); PY2BH (e); PY2DA (e); PY2ER (e); PY2GC

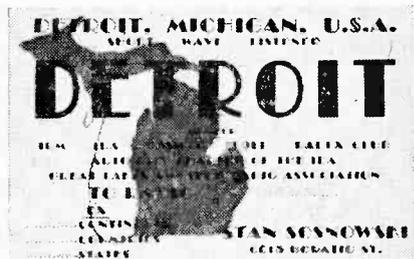
(e); PY2HY (e); PY2IT (el); PY2KT (e); PY2LN (e); PY2MH (l); PY5AQ (e); PY7AI (c); PY8AB (e); PY9AB (e); TG5JG (e); TG9AA (e); TG9BA (em); TI2AB (e); TI2AC (l); TI2LR (e); TI2RC (e); TI3AV (e); TI4AC (c); TI5NA (ck); XE1AC (e); XE1AM (c); XE1BC (c); XE1BY (eg); XE1CA (elm); XE1CH (efg); XE1CJ (e); XE1CO (e); XE1CX (e); XE1EH (e); XE1F (e); XE1FC (e); XE1GE (e); XE1GG (e); XE1HR (c); XE1JH (e); XE1JW (e); XE1LK (e); XE1LL (e); XE1MF (de); XE1O (e); XE1PAA (e); XE1Q (c); XE1VA (e); XE2AS (e); XE1AV (e); XE2AY (e); XE2RVG (e); XE2DQ (e); XE2FA (e); XE2GA (e); XE2HR (e); XE2HD (el); XE2HY (e); XE2IK (e); ZE2IV (c); XE2JL (c); XE2KA (e); XE2KN (e); XE2S (k); XE2SX (e); XE3AH (e); XE2AR (e); XE3AX (e); XE30 (e); YNU1 (el); YN1F (e); YN1IP (e); YN2X (c); YS1JA (e); YS1MS (e); YVAC9 (e); YV1AN (bc); YV1AP (l); YV1AQ (elfg); YV1AV (bc); YV4AB (e); YV4AE (c); YV4AF (e); YV4AN (e); YV5ABC (eg); YV5ABE (e); YV5ABF (e); YV5ABY (e); YV5ACA (e); YV5ACE (e); YV5ACG (e); YV5AE (e); YV5AK (c); ZS5Q (e).

40 Meters

CE1CY (k); CO2BS (b); CO2CL (ef); CO2CO (f); CO2JG (k); CO2LU (f); CO2MC (k); CO2MF (f); CO2AF (f); CO5AV (k); CO6AS (b); CO6AX (bfk); CO6BC (g); CO6RE (f); CO6CZ (b); CO8AV (f); HK1AK (k); HK2CN (b); HK3EW (f); HK4EH (f); KH8HK (b); KB6GJX (e); PY2LN (fk); TI2RA (k); TI4AC (fk); TI5OLL (f); TI8MU (f); XE1AC (k); XE1AW (f); XE1CX (f); XE1HV (b); XE1JJ (k); XE1LF (fg); XE1LG (k); XE1LL (k); XE2C (k); XE2LC (f); XE3AR (f); XE3H (k); YV1AO (k); YV5ABX (c).

The Reporters

- (a) Philippe A. Bates, Philadelphia, Pa.
- (b) Terence Boyd, Toronto, Ont.
- (c) Roger Crabill, Washington, D. C.
- (d) Melvin Fisher, Berkeley, Calif.
- (e) Clarence Freeman, Fort Wayne, Ind.
- (f) Norman Kane, Wynnewood, Pa.
- (g) Ed Laudansky, Dorchester, Mass.
- (h) Merton Meade, Kansas City, Mo.
- (i) Harry O'Meara, Manchester, Mass.
- (j) Al Renfro, Jr., Johnson City, Tenn.
- (k) Weston Richards, Zion, Ill.
- (l) Meredith M. Stroh, Kitchener, Ont.
- (m) Glen Thormann, Westbury, N. Y.
- (n) Mike Unger, Detroit, Mich.



This attractive SWL card is sent out by Stan Sosnowski of Detroit, Michigan. Stan receives excellent results from Hams who gladly QSL after they receive his card.

Please send us the names of friends who have shown an interest in DXing and whom you think would be interested in receiving a sample copy of RADEX. A postal card with the names and addresses on it will do. Thank you. RADEX, Emerson, N. J.

**YOU WILL SAVE 75 CENTS
SEE PAGE 96**

High Frequency Globe Trotting

By RAY LA ROQUE

Report-O-Meter

Norman H. Kane, Jr.	100%
Edward Laudansky	96%
Arnold Worme	83%
Roger Legge	81%
Francis Fellers	64%

Except for the first two places, which remain the same as last month, the Report-O-Meter is made up of new faces. . . The grouping in the meter is closer than it ever has been in the past, only four points separating first and second place and two points dividing third and fourth place! Honorable mention goes to Arthur Stevens, Alton Caldwell, Gerald Swamberg, and Bob and Bill Camp. Will the listeners who reached the meter this month please forward information on the receivers they use for the benefit of other readers next month?

"FM" FACTS

New stations to be added to the list appearing in the last RADEX:

43100 kcs.

W31NY (?) Alpine, N. J., Edwin H. Armstrong, 15610 sq. mi.

43200 kcs.

W8XFM Cincinnati, Ohio (Crosley Corp.) 1000 watts (exp.)

44100 kcs.

W41WS Winston Salem, N. C. (Gorden Gary) 69400 sq. mi.

44700 kcs.

W47PH Philadelphia, Penna. (Pennsylvania Broadcasting Corp.) 9300 sq. mi.

44900 kcs.

W49D Detroit, Mich. (John Lord Booth) 6800 sq. mi.

W49FW Fort Wayne, Ind. (Westinghouse) 6100 sq. mi.

45100 kcs.

W51R (?) Rochester, N. Y. (Stromberg Carlson) 3200 sq. mi.

45300 kcs.

W53PH Philadelphia, Penna. (WFIL Brdest. Co.) 9300 sq. mi. **45700 kcs.**

W57PH Philadelphia, Penna. (Westinghouse) 9300 sq. mi. **46500 kcs.**

_____ Kansas City, Mo. (Midland Brdest. Co.) 1500 watts (exp.) **46700 kcs.**

W67B Boston, Mass. (Westinghouse) 6700 sq. mi. **47100 kcs.**

W71RF Rockford, Ill. (Rockford Broadcasters) 3900 sq. mi.

W71SB South Bend, Ind. (South Bend Tribune) 4300 sq. mi. **47500 kcs.**

W75C Chicago, Ill. (Moody Bible Institute) 10800 sq. mi. **48100 kcs.**

W81SF Springfield, Mass. (Westinghouse) 2500 sq. mi.

The FCC has granted extension of experimental licenses of the following stations until May 1, at which time renewal will again be necessary: W8XAD, W8XVH, W1XSN, W1XK, W2XMN, W2XOR, W2XOY, W2XQR, W3XO, W8XVB, W1XSO, W1XPW, W1XTG, W1XOJ, W9XZR, W9XYH, W9XAO, W2XWG, W1XER, and W3XMC. . . W2XMN has been granted permission to re-transmit the programs of W1XOJ in Paxton.

New regulations announced because of the difficulty of new stations to procure transmitting equipment dur-

Readers living in the Eastern and Central Standard Time Zones may send their report direct to

**Ray LaRocque
105 Highand St.,
Worcester, Mass.**

(Please use EST in reports)



Ted E. Matzen, of Miles City, Mont.

ing the present defense preparations: An experimental FM stations may use its construction permit for a commercial license for the experimental station until such time as new equipment can be procured. . . . Experimental FM stations having commercial publications before the FCC, can have their experimental licenses renewed until such time as the FCC takes action upon their application. . . . Any experimental station which has not applied for commercial license may continue to operate experimentally only so long as no other commercial FM station serves the same area.

In cases where commercial FM stations are licensed to serve a greater area than the present experimental station is serving, the broadcaster may serve a smaller area with commercial privileges until he is able to procure equipment to serve the larger area.

W1XOJ is heard daily with terrific signals all day. . . W1XTG is heard daily with R8-9 signals. . . W1XK is heard daily with fair to good signals. (Caldwell-Mass.)

W2XOR was heard with a good signal, but they were heard only once. (Wetherill-Pa.)

W3XIR on 42140 kcs. sent me a verification. They are now off the air making plans to change over to FM. (Wetherill-Pa.)

W45D on 44550 kcs. is being operated by WWJ. (Laudansky-Mass.)

W45RG on 44500 kcs., our new FM station, will go into operation just as soon as WJBO's transmitter is fixed-up for the purpose. Both stations will use the same towers, there being six FM radiators at the top of the AM tower. W45RG will have a 1000 watt RCA Fm transmitter. (Stracener—La.)

W1XOJ has filed an application for a regular commercial license, and it is expected that the commission will authorize regular commercial operation under the call W43B. W1XOJ is presently on the air from 8 a.m. to midnight carrying programs of the Yankee, Colonial, Mutual, and N. B. C. Blue networks. No change in program policy is expected in the immediate future. (RX)

W1XK is operating experimentally at present and no definite schedule is being released by the station. (RX)

W1XSO is at present running the same schedule and programs as WTIC, but this will cease when W53H, the new Travellers FM station, starts broadcasting early in May. Special studios will be used for W53H and an entirely new program schedule will be devised for the FM station. (RX)

SHORTWAVES IN REVIEW

Algeria

TPZ on 12120 kcs., "Radio Algiers", and TPZ-2 on 8860 kcs., have been reported often during the hours from 2-6 p.m. TPZ is the stronger of the two stations. A series of CW notes is used at sign off. Programs are in French and Arabic. (Hankins—Pa., Carriazo—Cuba, Kane—Pa., Bill & Bob Camp—Pa., Fellers—Mass., Caldwell—Mass.)

Arabia

ZNR is a station at Aden being reported on 12120 kcs. from noon to 1 p.m. (Laudansky—Mass.)

Argentina

LRA-1 on 9690 kcs. is being received with strong signals in the early evening hours, getting weaker around 8 p.m. (Bras—Me.)

LRA-2 on 6180 kcs. in Buenos

Aires is on the air daily from 6-9 p.m. relaying YRA and LRA-1. (Rev. Quinton—Nfld.)

I.R.A-5 on 17830 kcs. in Buenos Aires transmits Fridays from 4-4:30 p.m. (Rev. Quinton—Nfld.)

Australia

Schedule to North America:

Schedule of Transmissions: VLQ on 9615 kcs. at Sydney is on from 2-2:30 a.m. to the A. I. F. abroad, from 3:25-4:25 a.m. to New Caledonia and from 2-2:30 p.m. to the A. I. F. abroad.

VLQ-2 on 11870 kcs. at Sydney is on from 6:40-7:15 a.m. for North East Asia, from 8:10-9:45 a.m. to South East Asia, and from 1:10-1:45 p.m. to South Africa.

VLQ-5 on 9680 kcs. at Sydney is on from 7:20-8:05 a.m. to North America.

VLQ-7 on 11880 kcs. at Sydney is on from 12:55 a.m. to 1:45 p.m. to North America, from 10:25-11:10 a.m. to North America, 2-2:30 p.m. to A. I. F. abroad., 3:25-4:00 p.m. to British Isles, and 4:55-5:45 p.m. to North America.

VLQ-8 on 17800 kcs. at Sydney is on from 4:05-5:50 p.m. to Latin America.

VLW-2 at Perth on 9560 kcs. is on from 8:10-9:45 a.m. to S. E. Asia, and from 1:10-1:45 p.m. to South Africa. (RX via Squires—N. Y.)

All of the above stations are reported by the following Radexers this month with the early morning program from VLQ-5 being the easiest to log. (Duening—Md., Stevens—Ky., Wetherill—Pa., Gleason—Pa., Laudansky—Mass., Stracener—La., Worme—N. Y., Kane—Pa., Caldwell—Mass., Kosolapoff—Ohio, Carriazo—Cuba, Swanberg — Mass., Fellers — Mass.)

VLR on 9580 kcs. is heard with musical program from 7:30-8:15 a.m. (Fellers—Mass.)

Azores

CUM on 6995 kcs. at San Miguel heard phoning Lisbon around 5-7 p.m. CUG-2 on 11915 kcs. is sometimes used in place of CUM. Both use an interval signal with about 20 notes.

(Legge—N. Y.)

Belgian Congo

OPM's schedule as reported last month is still unchanged from 1:40-2:45 p.m. Reporters are (Whiton—Mass., Bill & Bob Camp—Pa., Fellers—Mass., Kane—Pa., Caldwell — Mass., Laudansky—Mass.)

Radio Congo Belge is also reported broadcasting on 9700 kcs. and from 7-8 a.m. on 14970 kcs. (Whiton—Mass., Kane—Pa.)

Bolivia

CP-1 on 9892 kcs. at Sucre was heard during the evening with very faint signal. (Stracener—La.)

Brazil

PRC-5 on 4865 kcs. at Belem heard evenings until sign off at 8 p.m. They sometimes operate until 9 p.m. (Legge—N. Y.)

British Guiana

VP3BG on 6130 kcs. was heard here on Friday evening announcing Saturday schedule as 6-6:30 a.m., 10:45-11:30 a.m., 2:15-2:45 p.m., and 3:40-7:16 p.m. (Swanberg—Mass.)

Burma

XYZ on 6007 kcs. is heard from 6:30 a.m. to 6:57 a.m. when CFCX turns off its carrier which spells doom to XYZ. After opening English announcement, program is native music and singing. (Wetherill and Kane—Pa.)

Canada

CBFW on 6160 kcs. at Vercheres, P. Q. made its air debut since last RADEX. The station is using 7500 watts and correspondence should be sent to 1231 St. Catherine St., West, Montreal, P. Q. CBFW relays the programs of CBF, which means that they are mostly in French. They operate from 6:30 a.m. to 11 p.m. (Worme—N. Y., Geer—Pa., Mayo—P. Q., Swanberg—Mass., Wetherill—Pa., Laudansky—Mass., Stevens—Ky.)

CFCX on 6005 kcs. is owned and operated by Canadian Marconi Company and broadcasts simultaneously the daily 17-hour schedule of CFCF from 8 a.m. to 11:15 p.m. (Langley—Me.)

CHNX on 6130 kcs. is on daily except Sat. and Sun. from 7 a.m. to 11:15 p.m., Sat. from 8 a.m. to 11 p.m. and Sun. from noon to 11:15 p.m. A mail bag program is heard from 5 p.m. on Sunday. (Bamberger—Ohio, Langley—Me.)

Sign on time for Canadian short-wave stations: CFRX at 6:30 a.m., CHNX at 6:45 a.m., CBFW at 6:30 a.m. and CFCX at 6:45 a.m. (Laudansky—Mass.)

China

XGOY on 11900 kcs. at Szechwan, China, heard from 6-6:30 p.m. and also reported with weak signals at 3:00 a.m. (Fellers—Mass., Stracener—La.)

Colombia

HJAE on 5050 kcs. at Cartagena is heard on this frequency instead of 4830 as listed. (Laudansky—Mass.)

HJCP on 9630 kcs. at Bogota was heard with a strong and clear signal with Latin American music. (Worme—N. Y.)

Costa Rica

TI-4NRH has shifted a little from 9692 kcs. to 9696 kcs. to avoid interference from GRX and TGWA. TI-4NRH is being heard better than ever before. (Kane—Pa.)

TIGPH on 5830 kcs. is off the air at 10 p.m. at which time TIX on the same channel starts broadcasting and continues until mid-night or later. (Geer—Pa.)

TIRCC on 6185 kcs. at San Jose signs off at 11:40 p.m. (Laudansky—Mass.)

TIRH "Radio El Mundo" is heard evenings until sign off at 11:30 p.m. (Legge—N. Y.)

Cuba

COCB on 6132 kcs. "La Voz del Aire, S. A." is now deleted. (Laudansky—Mass.)

COCY and COCQ are the stations in question for Mike Bras, Biddeford, Me., who identified the Spanish call as sounding like CMAC-Gregga and CMAQ, the way both broadcast band relays of these stations would announce their calls! (RL.)

Dominican Republic

HI-1N is being heard early mornings coming on the air between 6:30-7 a.m. (Bob — Bill Camp—Pa., Kane—Pa., Stracener—La.)

HI-1? on 6180 kcs., an experimental station was heard from 4:15-5 p.m. when they signed off. This is definitely not HI-1A (Laudansky—Mass.)

HI-3U on 6017 kcs. heard evenings. Announcements are preceded by two bells. (Bamberger—Ohio.)

Ecuador

HC2AK on 9380 kcs., is heard with program of popular music from 10:15-11 p.m. on Saturdays. Solgan: "Todas Plata de Populares". (Laudansky—Mass.)

HCJB on 12450 kcs. at Quito continues to be the most popular short-wave station with RADEX reporters. No less than sixteen different readers reported hearing this station last month!

Egypt

SUX on 7865 kcs. at Cairo was heard around 7 p.m. broadcasting a news commentary to the BBC, which relayed it to New York. SUX is often picked direct by the networks in New York. (Kane—Pa., Worme—N. Y.)

Finland

OFD on 9500 kcs. and OIE on 15190 kcs. heard with weak signals carrying news in English at 1:15 p.m. (Swanberg—Mass.)

France

"Y", as all Paris stations are now called, was reported on 9520 kcs. at various hours in the afternoon and early evening with good signals.

"Y", on 15240 kcs. was also reported at 6:15 a.m. and from noon-2 p.m. (Kane—Pa., Worme—N. Y., Stevens—Ky.) A ticking sound identifies these stations.

French Equatorial Africa

"Radio Brazzaville" on 11970 kcs. is still being frequently reported from 2:30-4 p.m. and is also being heard at night from 10-11 p.m. (Twenty Radex readers included reports on this station). An ironical note in the veri from this station which is upholding England and Free France, is that it

was enclosed in an envelope marked "Made In Germany". (McMahon—N. Y.)

French Indo China

"Radio Saigon" on 6190 kcs. and 11790 kcs. is being reported from about 6:30-7:30 a.m. (Kane—Pa., Fellers—Mass., Carriazo—Cuba, Stracener—La., Wetherill—Pa.)

French Morocco

"Radio Maroc" at Rabat on 11940 kcs. was heard signing off at 3 p.m. (Laudansky—Mass.)

French West Africa

"Radio Dakar" on 9390 kcs. has news in English on Tuesdays and Fridays at 4 p.m. This is a station sympathetic to the Vichy government in France. (Caldwell—Mass., Worme—N. Y.)

Germany

Official German program schedule: DJB on 15200 kcs. is heard from 8:45 a.m., 11:30-11:45 a.m., 12:30-12:45 p.m.

DJZ on 11800 kcs. from 3:30-4 p.m.

DZD on 10540 kcs. from 4:30-4:45 p.m., 8-11 p.m.

DXP on 6030 kcs. from 4:50-7:30, and 8-11 p.m. and 11:05 p.m. to 1 a.m.

DJD on 11770 kcs. from 4:50-7:30, and 8-11 p.m. (RX.)

These and the following German stations reported at various hours by RADEX readers: DXT (15230 kcs.), DXM on (7270 kcs.), at 9 p.m., DXD (10543 kcs.) at 8 p.m., DZE on (12100 kcs.) at 3:45 p.m., DJW (9650 kcs.) evenings, DXM (7270 kcs.) at 4:30 p.m. (Worme—N. Y., Laudansky—Mass., Caldwell—Mass., Stracener—La., Kane—Pa., Renfro—Tenn., Wetherill—Pa., Hankins—Pa.)

Gold Coast

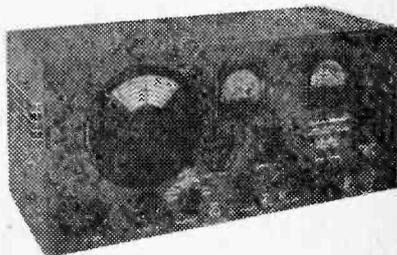
ZOY on 4920 kcs. in Accra, the capital of the Gold Coast broadcasts locally and to Nigeria and other parts of Africa. Information relayed to Norman Kane (Pa.) from Allan Drake in Nigeria.

Great Britain

Complete list of British calls: GSA—6050; GSB—9510; GSC—9580; GSD—11750; GSE—11860; GSF—15140; GSG—17790; GSH—21470; GSI—

FOR THE ALL-WAVE
CHAMPION

HALLICRAFTERS



Through the courtesy of Mr. Royal Higgins and Mr. W. J. Halligan, The Hallicrafters, Inc., of Chicago, Ill., have donated a HALLICRAFTERS SKY-RIDER DEFIANT RECEIVER, Model SX-24, to be given to the person who will be declared the All Wave Champion.

This all-wave receiver is truly one of the finest communications sets on the market today. Frequency Meter tuning is provided by means of two translucent illuminated dials, one for the main tuning control and the other for the electrical handspring system. A built-in noise limiter is provided. Variable selectivity in six positions from sharp crystal to broad I. F. A. carrier level meter is calibrated in "S" units and decibels. A double-balance bridge-type crystal filter, frequency stabilization and a full four-band tuning range from 540 kcs. to 43500 kcs. all contribute to its peak performance. Ample selectivity is provided by a T. R. F. stage and two high-gain I. F.'s.

15260; GSJ—21530; GSK—26100; GSL—6110; GSN—11820; GSO—15180; GSP—15310; GSQ—25750; GSR—26300; GSS—26550; GST—21550; GSU—7260; GSV—17810; GSW—7230; GRZ—21640; GRY—9600; GRX—9690 kcs. (Kane—Pa.) The above stations, many of them, have been heard and reported by the following readers: (Hankins—Pa., Boonin—Pa., Laudansky—Mass., Stracener—La., Swamberg—Mass., and Renfro—Tenn.)

BBC Home Service station on 7035 kcs. heard with English news at 1 a.m. (Laudansky—Mass., Gross—Mo.)

BBC Home Service station on 7100 kcs. is also heard at 1 a.m. (Caldwell—Mass.)

BBC Home Service on 7135 kcs. is on evenings until 10:15 p.m. No call is known. (Carriazo—Cuba.)

BBC Home Service on 6145 kcs. has a program of requested musical selections from U. S. listeners at 10:15 p.m. daily. (Laudansky—Mass.)

Greece

SVM on 9935 kcs. in Athens is another country for shortwave fans to log. The station is at present broadcasting from 2:40-3 p.m. and from 6-7 p.m., the last program intended for this country. Slogan is "This Is Athens Calling". The afternoon program begins and ends with the Greek Anthem and "God Save The King", while the evening program starts and finishes the same way with the addition of "The Star Spangled Banner". Station uses 10 kw. and signal is very strong. (Laudansky — Mass., Stevens — Ky., Kane—Pa., Swanberg—Mass., Fellers—Mass., Porter—D. C., Worme—N. Y., Mike Gras—Me., Woollacott, N. Y.)

Guadeloupe

FG8AH on 7446 kcs. is still heard on 6:30 p.m. nightly and still has a very attractive card. Mail is censored by British. (Arnold—Ohio; Laudansky—Mass., Bob — Bill Camp—Pa., Worme—N. Y., Fellers—Mass., Woollacott—N. Y., Carriazo—Cuba.)

Guatemala

TGWC on 2480 kcs. now according to their latest verification card. (Bob & Bill Camp—Pa.)

Haiti

HH2S on 5985 kcs. broadcasts a program in English Wednesdays from 9:30-10:30 p.m. They sign off about 5 minutes later. (Kane—Pa., Bamberger—Ohio, Langley—Me., Arnold—Ohio.)

India

VUB-2 on 7240 kcs. in Bombay, VUD-2 on 7290 kcs. and VUM-2 on 7270 kcs. are heard in parallel every evening from 9-9:50 p.m., at which time they faded out. (Carriazo—Cuba.)

VUD-2 on 9590 kcs. is being heard at 7 a.m. with news in English at 7:30

a.m. Along with VUD-2 these stations also have the same program VUD-4 on 11830 kcs., VUC-3 on 4840 kcs. (Renfro—Tenn., Stevens—Ky., Stracener—La., Swanberg—Mass., Boonin—Pa.)

VUD-3 on 9590 kcs. is heard at 7:30 a.m. with news in English. (Bob & Bill Camp—Pa.)

VUD-4 on 11870 kcs. in a verification stated that they are now using the frequency formerly assigned to VUH-2. (Rev. Quinton—Nfld.)

Italy

IRW on 19650 kcs. at Rome was heard at 10:15 a.m. with a South American transmission. (Laudansky—Mass.)

"Radio Italia" on 11920 kcs. is a new station apparently of anti-Facist belief is broadcasting in Italian from 2-2:50 p.m. and 4-4:30 p.m. and 6-6:28 p.m. They end with "A Basco A Hitler!" (Fellers—Mass.)

I2RO-6 on 15300 kcs. has an experimental transmission for the U.S.A. from noon to 1:15 p.m. (Duening—Md., Laudansky—Mass.)

I2RO-18 on 9675 kcs. is experimentally broadcasting from 8-10:30 for North America.

I2RO-19 on 7310 kcs. is operating in parallel with I2RO-18. (Duening—Md., Laudansky—Mass., Kane—Pa., Worme—N. Y.)

Ireland

"Radio Eirean" on 12301 kcs. heard from 12:30-1 p.m. with records and news. (Caldwell—Mass.)

"Radio Eirean" on 17840 kcs. heard at 3:15 p.m. with speech by Prime Minister De Valera. (Swanberg—Mass.)

Jamaica

ZQI on 4700 kcs. at Kingston is being heard from 5:30-6:30 p.m. with recorded program. Announce as "This is Jamaica, station Zed Q I". Comments and reports are welcome. (Laudansky—Mass., Ralph Kastner—Tex., Gleason—Pa., Caldwell—Mass., Gross—Mo., Woollacott—N. Y.)

Japan

JVW-2 on 11725 kcs. was heard with an English transmission at 8:15

p.m. with JLG-4 and JZG. (Laudansky—Mass.)

JZI on 9535 kcs. is now also broadcasting from 7:30-8:30 a.m. (Fellers—Mass., Kastner—Tex.) JZI on 9335 kcs. is also broadcasting from 12-1 a.m. (Stevens—Ky.)

Java

PLP on 14630 kcs. was heard well from 7-9 a.m. with programs of native music. (Legge—N. Y.)

Lebanon

"Radio Levant" at Beirut on 8030 kcs. heard from 12-12:20 a.m. regularly with news in French. (Legge—N. Y.)

Madeira

CUQ-2 at Funchal heard phoning Lisbon irregularly at 5-6 p.m. (Legge—N. Y.)

Manchoukuo

MTCY on 6123 kcs. was heard from 7:30-5:50 a.m. with Oriental music and fair signals. (Kane—Ca.)

Mexico

XEFA on 9560 kcs. heard at 11:30 p.m. with popular American songs. (Renfro—Tenn.)

XEUW on 6020 kcs. at Vera Cruz, Mexico operates daily from 7 a.m. to 1 a.m. and is heard best from 11 p.m. to 1 a.m. They use 250 watts. (Stephenson—Okla., Stracener—La., Geer, Pa.)

XEWW on 9500 kcs. is on the air from 7:45 a.m. to 12:30 a.m. (Worme—N. Y., Renfro—Tenn.)

XEXA on 6180 kcs. is heard nightly. Frequently joins with Bogota on network programs. (Worme—N. Y.)

Newfoundland

VOFB operates on 12300 kcs., 8825 kcs., and 6690 kcs., and contacts the following transmitters at Drummondville—CJN-5 on 12110 kcs., CJN-4 on 9805 kcs., and CJN-2 on 6910 kcs. VOFB is owned by the Avalon Telephone Co., St. Johns. (Wilmot—P. Q.)

VONG on 9475 kcs. is heard from 4:15-6:15 p.m. (Geer—Pa., Swanberg—Mass., Quinton—Nfld.)

VONH on 5970 kcs. is heard signing off at 1:20 p.m. (Swanberg—Mass., Fellers—Mass.)

Nicaragua

YN2FT on 7490 kcs. at Granada heard broadcasting from 8-10 p.m. (Legge—N. Y.)

YNOW on 6850 kcs. at Managua announce as "La Voz del America Central" and offer to verify. Sign off is at 10:10 p.m. or earlier (Laudansky—Mass., Stephenson—Okla.)

YNPR on 8580 kcs. is on from 7:45 p.m. to 10:30 p.m. (Kastner—Tex., Bras—Me.)

Panama

HP5A on 11700 kcs. has English news at 6:30 p.m. and often have programs directed to an English speaking audience. (Arnold—Ohio, Langley—Me., Worme—N. Y., Laudansky, —Mass., Stracener—La.)

HP5K on 6000 kcs. at Colon is heard every Sunday with a program in English from 9:30-11 p.m. (Arnold—Ohio.)

Peru

OAX6A on 6050 kcs. "Radio Arequipa" at Arequipa is heard best between 9:45-10:30 p.m. (Legge—N. Y.)

OAX6D on 9450 kcs. "Radio Continental" at Arequipa is heard evenings. (Legge—N. Y.)

Philippine Islands

KZRH on 9635 kcs. heard at 9 a.m. with a fairly good signal. (Kastner—Tex.)

KZRM on 9570 kcs. at Manila was heard at 3 a.m. with weak signals. (Stracener—La.)

Portugal

CS2WD on 6200 kcs. heard from 3-6 p.m. Veri card gives frequency at 6156 kcs. QRA is Radio Renascenao, Emisora Catolica Portuguesa, Rua Capelo 5, Lisbon. (Leggs—N. Y.)

Strait Settlements

ZHP-3 on 7250 kcs. at Singapore is heard from 6:30-8 a.m. (Legge—N. Y.)

Sweden

SBP on 11705 kcs. and SBT on 15155 kcs. are heard around 3 p.m. with sign off at 4:30 p.m. and in the evenings from 8-9 p.m. (Bamberger—Ohio, Fellers—Mass., Swanberg—Mass., Kane—Pa.)

Switzerland

"Radio Suisse" at Geneva on 11965 kcs. was heard at 3 p.m. with an R9 signal. (Laudansky—Mass.)

Praguins transmitter can be identified by a seven-note piano chord tune played over and over preceding sign on. (Kane—Pa.)

New station on 6165 kcs. heard carrying news in French, German, and Italian from 4:4:30 p.m. (Worme—N. Y.)

HBJ on 14535 kcs. at Geneva heard talking to New York on Sunday afternoon at 2:50 p.m. (Swanberg—Mass.) HBJ verified on all frequencies and calls. (Address "Radio Suisse" 12 Quai de al Poste, Geneva. (Bob & Bill Camp—Pa.)

HBL on 9345 kcs. is heard with excellent signals from 8:45-10:15 p.m. on Monday and Wednesday. (Fellers—Mass., Caldwell—Mass.)

Tahiti

FO8AA on 7100 kcs. is evidently a pro-De Gualle station. It was heard here from 7:10-8:00 a.m. with a weak signal. Quality was poor. (Kane—Pa.)

Turkey

TAP on 9465 kcs. carries news in English at 2:15 p.m. and popular dance records at 4 p.m. Ankara programs are now broadcast to NBC and CBS on Sundays, Thursday, and Mondays. Signal on these programs is 100% better than on daytime programs. Identification for TAP is 10 notes played on an Oriental reed instrument. (Kane—Pa., Worme—N. Y., Fellers—Mass.)

Union of South Africa

ZRD stated that they operate from 12:45 a.m. to 2:43 a.m. on 6147½ kcs. and on 4874 kcs. Address is South

African Broadcasting Corp., P. O. Box 1588, or Broadcast House, 120 Alival St., Durban. (Speidel—Pa.)

ZRK on 6100 kcs. heard at 3:30-4 p.m. with R8 signal (Fellers—Mass.)

ZRL on 9610 kcs. is heard from 11:45 p.m. with setting-up exercises. Signal is fair. (Fellers—Mass., Stevens—Ky., Bob & Bill Camp—Pa.)

ZRO on 9775 kcs. heard at 2:40 p.m. with weak signals and news in English at 3:50 p.m. A record program followed. (Bob & Bill Camp—Pa.)

Uruguay

CXA-2 on 9570 kcs. was heard at 11:19 p.m. with popular American tunes. Spanish announcements were heard exclusively. (Renfro—Tenn.)

U. S. A.

WBOS on 11870 kcs. heard clearly at 4 p.m. on the former WPIT frequency. In the evening the transmission is directed to South America on 9570 kcs., the former location of WBOS. (Worme—N. Y.)

WGEO on 11910 kcs. has been heard here with weak signals. How come? (Laudansky—Mass.)

WNBI on 17780 kcs. heard with very weak signals on this channel. (Laudansky—Mass.)

U. S. S. R.

RKI on 7520 kcs. is the only audible frequency on the multitude used on the 7-8 p.m. broadcast. (Kane—Pa., Laudansky—Mass.)

RNE on 12000 kcs. was heard at 12:50 a.m. (Stevens—Ky.)

RV-96 on 15180 kcs. heard early mornings around 7:30 a.m. and from 12:40-1 p.m. (Kane—Pa., Wetherill—Pa.)

Siberians, believed to be at Khabarovsk, heard in parallel on 9565 kcs., 6115 kcs., and 4273 kcs. from 4:30-6 p.m. and 6:30-7:30 a.m. Setting up exercises are heard on all three at 4:35 p.m. (Legge—N. Y.)

Vatican City

HVJ on 6190 kcs. was heard on a Sunday morning at 8:30 p.m. with a

talk in English on Education and the State. (Worme—N. Y.)

Venezuela

YVA on 5220 kcs., broadcasts from 6:15-6:30 p. m. relaying other YV stations. YVO on 5460 kcs. at Maracaibo is also on the chain some nights. (Legge—N. Y.)

YV3RX on 3410 kcs. "Radio America" at Barquisimeto is heard R9 plus in the early evening. (Laudansky—Mass.)

YV5RM on 5010 kcs. in Caracas heard for about an hour and a half before sign off at 10:30 p.m. with strong signal. (Bras—Me.)

Yugoslavia

YUG on 15240 kcs. was heard with R9 signal in the daytime at noon. YUF is the call used for South American transmissions, YUG for North America. (Wetherill—Pa.)

"Radio Beograd" on 9448 kcs. at Belgrade were heard from 12-12:45 a.m. (Stevens—Ky.)

Radex Reporters

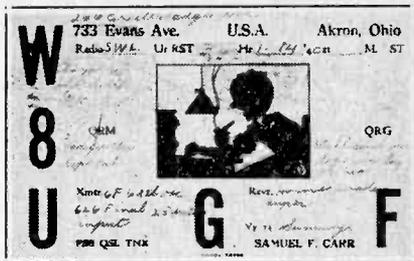
RL: Your Shortwave Editor, Worcester, Mass.
 RN: Official news.

R7, Pa. 1: Art Hankins, Latrobe, Pa.
 R15, Ill. 1: D. S. Barnes, Chicago, Ill.
 R89, N. D. 1, O. Ingmar, Oleson, Ambrose, N. Dak.

R101: Weston Richards, Zion, Ill.
 R431: Samuel A. Meyer, Laredo, Texas.
 R451: Chet Romanowicz, Monterey, Cal.
 R572: Roger Mais, Mishawaka, Ind.
 R615: Edward Shirley, Jamestown, N. Y.
 R636: Norman Maguire, Stamford, Conn.
 R770: Donald R. Yacom, Upland, Indiana.
 R786: Bob Skytan, E. Brookfield, Mass.
 R814: Merlin Steen, Decorah, Iowa.
 R833: John W. Dean, Toronto, Ontario, Can.
 R881: Clarence Lee Mustoe, Brady, Montana.
 R1010: Norman Whitton, Greenwood, Mass.
 R1049: S. R. Morss, Haverhill, Mass.
 R1140: Chas. S. Verdij, Washington, D. C.
 R1151: Bob Brown, Goshen, Ind.
 R1310: Alton L. Caldwell Jr., Brockton, Mass.
 R1320: Frank Gravelly, Martinsville, Va.
 R1342: Hank Bennett, Collingswood, N. J.
 R1360: Joseph Rachuba, Pittsburgh, Pa.
 R1470: Jack Stephenson, Oklahoma City, Oklahoma.

R1541: Lincoln A. Mayo, Montreal, So. Quebec, Canada.

R1557: Chas. O. Peach, St. Louis, Mo.
 R1566: Ray Woollocott, Rochester, N. Y.
 R1601: Hal Robie, Springfield, Mass.
 R1700: W. H. Porter, Washington, D. C.
 R1728: Edmond Osoke, Detroit, Mich.
 R1740: Connie Sideris, Oswego, N. Y.
 R1741: Harold A. Whittier, Mansfield, Mass.
 R1757: Wm. McMahon, Glen Cove, N. Y.
 R1773: Fred Benkeley Jr., China Spring, Tex.
 R1707: Phil Gridley, Holyoke, Mass.
 R1806: N. B. Boonin, Upper Darby, Penn.
 R1807: Robert McConnell, Middletown, Ohio.
 R1816: Albert Koppe, Des Moines, Iowa.
 R1835: Frank Baudreau, Salem, Mass.



Samuel F. Carr of Akron, Ohio shoots along a photo of his QSL card. It is well worth adding to anyone's collection.

- R1839: Elmer Rogers, Cleveland, Ohio.
 R1841: Elwin L. Gleason, Moosic, Pa.
 R1843: L. N. Stracener, Jr., Baton Rouge, La.
 R1850: Bill Camp, Moosic, Pa.
 R1894: Bob Camp, Moosic, Pa.
 R1897: Al Kenfro Jr., Johnson City, Tenn.
 R1907: Manuel J. Smith, New Orleans, La.
 R1911: Norman H. Kane Jr., Wynnewood, Penn.
 R1923: Wm. R. Knotts, Penns Grove, N. J.
 R1925: Ted Bamberger, Shaker Heights, O.
 R1931: Bernard Langley, Auburn, Maine.
 R1934: C. F. Speidel, Phila., Penn.
 R1936: Aaron J. Doan, Meadville, Pa.
 R1978: Bernard F. Arnold, Akron, Ohio.
 R2001: Eugene Francis, Bronx, N. Y.
 R2003: Arnold E. Worms, Brooklyn, N. Y.
 R2006: Buddy Giles, Wichita Falls, Texas.
 R2009: Jose Carriazo Jr., Havana, Cuba.
 R2014: E. H. Greer, Brackenridge, Penn.
 R2020: Gerald Swamberg, Brockton, Mass.
 R2044: Dick Knoth.
 R2053: Anton Duemig, Annapolis, Md.
 R2063: Ed Laudansky, Dorchester, Mass.
 R2064: Julius Hart, Jackson, Mich.
 R2082: Geo. F. White, Stockton, Mass.
 R2095: Bill Van Meter, Muncie, Ind.
 R2099: Jim Slavies, Toronto, Canada.
 R2102: Edward Sluter, Albany, N. Y.
 R2110: Mont Vaughn, Pittsburgh, Pa.
 R2143: Canal Zone 5: Glen Elliott, Fort Amador, Canal Zone.
 R2161: R. H. Livingstone, Lansdowne, Penn.
 R2194: Stephen Hoffman, Norwich, Conn.
 R2195: Harold Shuartz, New Bedford, Mass.
 Kenneth Austri, Waterville, Maine.
 G. L. Banta, Downers Grove, Ill.
 Milton Benson, So. Hadley Falls, Mass.
 Robert Boitzum, Reading, Penn.
 Mike Bras, Biddleford, Maine.
 Eric Bristow, Chicago, Ill.
 Hitner Chambers, Narragansett, R. I.
 John Coleman, Delafield, Wis.
 Warren Dame, Saxtonville, Mass.
 Harold & Eleanor Dunn, N. Brookfield, Mass.
 Francis Fellers, Amherst, Mass.
 Mel Fisher, Berkeley, Cal.
 Arthur Foersters, Indianapolis, Ind.
 Carl Forestieri, Bronx, N. Y.
 Vernon Lee Gibbs, Lexington, Ky.
 Bob Gilchrist, New York, N. Y.
 Eugene Gross, Webster Groves, Mo.
 Francis Hone, Rochester, N. Y.
 Alen G. Hooker.
 Malcolm Horlic, Youngstown, Ohio.
 Robert Kappleon, Newark, N. J.
 John Kalmbach Jr., Buffalo, N. Y.
 Ralph Kastner, New Braunfels, Texas.

G. M. Kosolapoff, Dayton, Ohio.
 A. R. Lacey, Palmerston Nth, New Zealand.
 Frank Lee, Wildwood, N. J.
 Roger Legge, Binghamton, N. Y.
 Earl Lever, Fort Bragg, N. C.
 Joe Lippincott, E. Vassalboro, Maine.
 Wm. F. Maag Jr., Youngstown, Ohio.
 Hyman Mandel, E. Montreal, Canada.
 L. A. Mayo, Montreal, P. Q., Canada.
 M. W. Oliver, Houston, Texas.
 Cortland Parent, Jr., Peekskill, N. Y.
 E. S. Peach, Inverness, N. S.
 Bob Peterson, Deerfield, Ill.
 Al Pickering, West Medway, Mass.
 Rev. J. L. Quinton, Greenspond, Nfld.
 Fred Rosecrans, Newburg, N. Y.
 Joe F. Serson, Washington, D. C.
 A. G. Schlieter, Rochester, Penna.
 Walter Scholz, 2nd, Webster Groves, Mo.
 Charles Squires, New York, N. Y.
 Jack Snyder, South Bend, Ind.
 Chester Stedman, Westerly, R. I.
 Art Stevens, Shepherdsville, Ky.
 L. M. Stracener, Jr., Baton Rouge, La.
 John S. Taggart, Bath, N. Y.
 Theodore Taylor, Fort Wayne, Ind.
 David F. Thomas, Proctorville, Ohio.
 Gordon E. Walberg, Winnipeg, Man.
 W. Waldman, Asheville, N. C.
 George Wetherill, Jr., Upper Darby, Penna.
 Kenneth F. Ilmot, Yamachiche, P. Q.
 Carl Zimmerer, Dover, N. J.

U. S. A.

WLWO in Cincinnati, Ohio granted full time use of 9590 kcs. by the FCC. granted WLWO two additional frequencies 11710 kcs., and 175250 kcs., the latter channel has been relinquished by WRUL. WLWO will be deleted on 11870 kcs., though. (RX)

WLWO is being heard on two of their new frequencies in the afternoon. The frequencies 9590 kcs. and 11710 kcs. (Woolacott—N. Y., Skyten—Mass., Laudansky—Mass., and Kempton—Mass.)

WLWO on 17800 kcs. is now using this frequency irregularly from 11 a.m. to 5 p.m. They are on 15270 kcs. from 8-11 a.m. and again at 5 p.m. (Webb, Texas.)

WNBI on 11890 kcs. broadcasts from 9:15 p.m. on this frequency. (Webb, Texas.)

WPIT on 11870 kcs. has been asking for reports on. (Laudansky, Mass., Taylor, Ky.)

WSLA on 15250 kcs., 15130 kcs., and 6040 kcs. with a new power of 50 kw. has replaced WRUW's schedule for the present. (Woolacott, N. Y.)

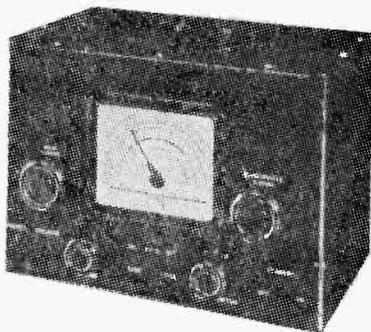
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Ham Hounding

By OWEN CALLIN

A QSL from one of the Antarctic stations will be a rarity, indeed, for the SWL, and only those fortunates who are acquainted with one of the operators and can prevail upon him to furnish a QSL when he returns will be able to boast.

Which statement, as you probably have guessed by now, Radexers, means that Admiral Byrd has been unsuccessful in his efforts to get the QSLs. In a recent communication the Admiral said that while he appreciated our services and was extremely anxious to accede to our request, it just couldn't be.

"I must point out," Byrd wrote, "that the United States Antarctic Service is a government undertaking and, as such, its activities are confined to those specifically set forth in the language of the appropriation act through which Congress made available the money to carry on the project.

"As the expedition will be demobilized immediately upon its return to the United States, neither the time nor the facilities for checking the radio logs and issuing QSL cards will be available, and, therefore, much as I would personally like to see your proposal approved by the executive committee of the United States Antarctic Service, I regret to advise you that conditions render it impracticable of accomplishment."

We'd like to thank the Admiral for his kindness in attempting to get the QSL's, even if did turn out to be an impossibility.

Our contest is booming right along with Mert Meade of Kansas City jumping into the lead with the amazing total of 27,495 points. Come on, you old-timers, dig around and see if you can locate more of those QSLs,

or get busy with the earphones and pen. Remember, only two more months are left since the contest ends June 30. The first prize is credit towards the purchase of foreign stamps from the Return Postage Bureau, Rutherford, N. J., donated by the manager, Walter Koester, plus a writeup in Ham Hounding. The second place winner also gets a writeup.

Here are the standings at the end of March:

Mert Meade	27,495 pts.
Cliff Tavener	23,184 pts.
George Eder	18,090 pts.
Jack Wells	17,544 pts.
Eugene Allen	3,200 pts.
Weston Richards	2,100 pts.
Mike Unger	2,054 pts.
Ralph Kastner	1,422 pts.
Alton Caldwell, Jr.	1,215 pts.

The final results should be forwarded to me by July 30. That's the deadline. The results will be announced in the September-October issue and the winners publicized in the following issue of Radex.

Meanwhile, the contestants are going after that \$15 first prize in the amateur division of Radex's big contest. At the present time Roger Crabbill is leading with 352 points on his first coupon, William Knotts is next with 292 on two coupons, Mike Unger has 228 on two coupons, and Mert Meade has 154 points on the same number.

Many of our Ham Hounders are going after the HALLICRAFTERS SKYRIDER DEFIANT radio in the

Send your reports for Ham Hounding direct to

Owen P. Callin
61 W. California Ave.,
Columbus, Ohio

All-Wave contest or the PHILCO PORTABLE STRAP-AROUND in the Broadcast Band melee—lots of luck to all of you!

Brazil is the ninth country in the Americas and the 36th to become affiliated with the International Amateur Radio Union. With the election to membership of the Liga de Amadores Brasileiros de Radio Emissao. In Brazil there are about 1,000 amateurs, all of whom belong to the L. A. B. R. E. Numerous groups form weather-reporting nets and emergency communication reserves.

The official radio organ for these Brazilian hams is called "QTC," which, appropriately enough, means "I have a message for you."

Here are some official motions for your consideration, Radexers. Clarence Freeman (R1913) made the suggestion and it's a good one. He suggests that when sending in Calls Heard they be arranged alphabetically. If you can mail them in that way it will be a big help to the editor who arranges them. How about it?

Norman H. Kane, Jr., suggested that a list of 40-meter phone stations be started and so, in this issue, you will notice such a list. Think it's a good idea? Ed Laudansky also urges its acceptance.

Along comes Joe Ribinski (1933) with the suggestion that a Logged All States certificate be issued in addition to the WAC, WAS, VAS, etc. He needs just two more states for such a certificate on 20 meters.

We have a fine list of new reporters and reports this month from some of you who haven't written in for a long time. Edward Laudansky of Dorchester, Mass., by the way, is now officially a member, having been given the number Radex-2063.

From Norfolk, Va., comes the first report of Al N. Cole, Jr., and its a fine one. Welcome to the round table, Al. Grab a seat and meet the rest of the boys.

Bob and Bill Camp, R1850 and R1894 respectively, sent in a fine report and told us all about their new club—the Short Wave Listeners Registry. The main objective is to compile lists of hams who verify SWL reports and those who don't.

Declaring that it is NOT a money-making proposition, they say that the dues are 15 cents for five years and each member is listed for that period as a 100 per cent SWL swapper. Incidentally, their lists sell for five cents apiece and are revised every two months.

Anyone interested may get in touch with either brother at 1042 Water St., Moosic, Pa. Already more than 100 have joined the club.

Gerald Swanberg (R2020) of Brockton, Mass., sent in his first report—also a good one. Massachusetts is very well represented, indeed. Keep up the good work, Gerald.

Ed Laudansky volunteers this information: getting very discouraged because his aerials are less than 30 feet from street car lines, he tried an experiment with his earphones. Instead of plugging them all the way in, he just touched the plug to the contact—lightly but enough to make it hold. He says with a very little experimentation the signal level can be raised above the noise level.

Edwin Gleason (R1841) tried lowering his aerial to about six feet high for some fun on ten meters. He began hearing the stations at 9:30 a.m. and was still tuning them in by droves at 4:30 p.m. Evidently he was connected to a good ground wave!!!!

We're interested in WUMS, a station known as "We're Unknown Mystery Station" and since 1931 as "World's Oldest Known Outlaw Station." Since 1937, the station card says, the equipment is used only for Ohio River flood broadcasting.

Anyhow, David Thomas of WUMS, Proctorville, Ohio, begs to report that he, too, verified the amateur WIIXL on 5437.5 kilocycles. Last issue we re-

ported that Bill Wells of Hamilton, Ont., was the only one who logged WIIXL on the army frequency, but evidently Dave is another one.

QRA and QSL

Will NY4AC verify? asks Lee Johnson, 89 William St., Portland, Me.

The QRA of KB6GTx is desired by Roger Crabill, 1116 Staples St., N. E., Washington, D. C., who heard the station on 40-meter CW.

Glenn Thormann, 271 Park Ave., Westbury, N. Y., wants the QRAs of OA7A (see PERU in DX list), K7BUB and also NY4AC.

Phil Bates comes forth with this list of QSLers: CE3AG, CM2AR, CO2AM, 2BG, 2DR, 2JM, 2KP, 2LA, 2RR, 2UT, 2VK, 2YW, 8JK, 8MP, HH4AS, HP1A, K4DSE, 4EMG, 4FAB, 4FCG, 4FKC, 4GIG, 4GSG, 4KD, K5AP, K6PLZ, 6SYM, KE6-NYD, K7GTP, LU1CA, 1DA, 8AB, NY4AB, 4AD, OA4R, PY2IT, 2LN, 5AQ, 7AI, XE1GE, 2HD, 3BK, YV5ACG, KB4HBX and K6NYD.

A QRA that many have requested is that of CO6AX, furnished by Stan Sosnowski of Detroit: Baldomero Espino, Calle Colon 33, Santa Clara, Cuba.

CW Section

A few stations heard on CW by Mert Meade: K6THG, 7.250; K6SAR, 14.335; K6GTP, 7.080; K6TAI, 7.222; K5AU, 14.310; K6CGK, 28.070; and K6TDZ, 28.324.

Now for the DX-less list of DX:

ALASKA: K7GTP send a fb QSL card, salmon-colored with dark brown print. The operator is John W. Fletcher, Aleutian Islands, Unalaska, Alaska. Transmitter is a 6LS oscillator, 807 buffer DB, 140 watts to T40s. The op QSLs for a report and five one-cent stamps. K7BUB and K7CBF were logged about 7:15 p.m., EST on 20 meters.

Page forty-two

CANAL ZONE: K5AP no longer uses K5AF's card to verify but has an attractive black card with red letters outlined in silver. K5AC has one of the best signals on 10 meters.

COLOMBIA: HK1AK heard on ten meters with a very clear signal. He was testing a new transmitter. HK3CY heard on 20 phone. HK3CE was logged on 14.30.

COSTA RICA: On 20 meters during the mornings TI2GG, 2RC and 6HP may be heard once in a while speaking English.

CUBA: CO2JJ verified after five months with a red, white and blue card. CO8MP is glad to get reports and verifies with a silver card with black wording. He requires an international reply coupon. CO2LY, 7CX and 7VP heard in a four-way with OA7A speaking English. 7CX is the manager of a sugar plantation in Florida, Cuba. CO2DR QSLed with a black and white card and a photo of himself and his rig. CO2GL will NOT QSL, says Phil Bates.

GUANTANAMO BAY: NY4AC gets around, putting an R9 signal into Bradford, Mass., says S. R. Morss. NY4AC is one of the five NY calls in Guantanamo. The others are 4AA, 4AB, 4AD and 4AE. 4AD QSLs with a white card outlined with American flags and can be heard nearly every morning. 4AB QSLs.

HAWAII: K6SYM is on 20 phone and QSLs with a picture post card, call letters printed upon it in black.

MEXICO: The card of XE1AC, says Ed Laudansky, is so Tsk! Tsk!

PERU: Here is the dope on the mysterious OA7A. He is an American on an expedition on one of the tributaries of the Amazon River. Overheard in a QSO was the suggestion to send QSL cards to him via the American Consulate in Lima, Peru.

PUERTO RICO: K4DSE OSLs promptly for postage. K4GTH is coming to the States in a month or so and expects to be stationed somewhere in the Pacific northwest, probably near Seattle or Portland. He may be heard on 20 or 75-meter phone. His card is a photographic one and shows a picture of the Ocean Walk apartment in Santurce and the layout of the rig which runs 1000 watts. K4FOV is NY4AC in Guantanamo.

SWAN ISLAND: There seems to be a KD4HHS on 20 phone on the island. Imagine this could be the op who replaced. KD4GYM.

VIRGIN ISLANDS: KB4HBX was heard to say that he didn't answer many SWLs—only once in a while when he felt like writing. Also he usually verifies by writing across the SWL's card "Confirmed." His signals must literally climb over a high mountain in any direction except south, but he gets into the United States nicely. He is on 10 meters and has only one frequency. A beam antenna has recently been installed and affords a better signal. Phil Bates lists his frequency as 28.724 and reports a card from the op. Phil suggests sending three one-cent stamps. Since his cards cost him two cents. Best time to log: noon. There are two ops: Dave and Harpo. The QRA: U. S. Marine Corps, St. Thomas, Virgin Islands.

CHATTER: Orchids to Norman Kane, Al Cole, Bob and Bill Camp for fine reports. . . . George Wetherill, Jr., has an aerial 165 ft. long, beamed north-south and spends most of his time on the broadcast band. . . . Phil Bates: all your dope used this time and thax. . . . Gerald Swanberg gets good results with his SX25 Super-Defiant. . . . Glenn Thormann is very satisfied with his S-20-R brought by Santa Claus. . . . Joe Gannon (R2169) is now in the 1000-veri class. . . . Ralph Kastner also sports a new S-20-R Sky Champion and all stations he lists in this issue were heard on it. . . . These HALLI-

CRAFTERS—my Challenger is on its third year and still pulling them in!!! Ralph has heard a total of 4437 amateur stations—871 of them foreign. . . . Roger Crabill uses a S19 Sky Buddy. . . . Three cheers—Thomas Moss of Hapeville, Ga., has become a ham and has his operator's license although not his station license as yet; he is going to use a 20-watt portable and will certainly verify ALL SWL reports; nice going, Tom. . . . Glenn Thormann would like SWL cards from anyone in North Dakota, Arkansas and New Mexico (see QRA and QSL for his QRA). . . . Mert Meade says the ARRL ten-meter contest was a fizzle around Kansas City as the band was 99.9 per cent dead. . . . Stan Sosnowski: thanks for your fb card, Stan, and you'll have one of mine when they're ready. . . . Stan uses a ten-tube Grunow with a 45-ft. "L" antenna. . . . Alton Caldwell now has a Sky Champion.

That's the works, Radexers and thanks for the increasing number of fine reports.

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W8TPN

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317 S. Walnut St.



The W Section

RADEX SALUTES THE UNITED STATES HAMS

A telephone engineer, university amateur radio club, motion picture projectionist, dentist and owner of a coin-operated amusement machines company are included this month in the list of favored amateurs selected for our amateur hall of fame—the W Section.

W1KJ is Charles McAuley of Lynn, Mass., an old-timer in the amateur radio game. He started in 1912, when the boys had to build their own equipment. For the past eight years Mac has been operating on 20-meter fone, but W1KJ is no stranger on the old 200-meter band, 80, 40 and five.

He is running 360 watts to a pair of 276A WE tubes and uses the same tubes in the Class B system. The speech is built in a 101 WE rack and sits by itself in one corner of the shack. Double doors on a double rack six and a half feet high built into the shack make it easy to inspect the "innards" of W1KJ. Antenna is a half-wave 20 meter doublet.

Mac has worked about every country and gets a kick out of still receiving SWL cards from England. He says most of the reports are R9. In all his years on the air, Mac believes he has not missed answering a single card and firmly believes in QSLing—amateurs and SWLs alike.

A telephone engineer with the Bell system in Boston, Mac's other hobby is parking by a big lake in Maine with good fishing gear.

W1KJ



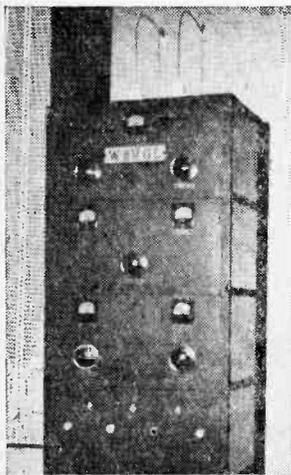
Charles McAuley

W4DFU—From Stephen O. Sashoff, an associate professor in the electrical engineering department of the University of Florida's college of engineering, comes the information on W4DFU, the station of the university's amateur radio club.

"I am sorry to say that at the present time the license of W4DFU has expired and a new license for the same station will not be requested from the FCC for a while," he writes. "The reason for this action is that at the present time the amateur radio club of the university is being reformed and we do not know yet exactly how it will be reorganized."

All the former operators of W4DFU are helping with the operation of the engineering experimental station, W4XAD, licensed for a wide list of experimental frequencies in connection with experimental work on direction finding and ionosphere sounding.

Under its former setup the chairman of the club was the trustee for the station, with the equipment owned by the electrical engineering department and the club's activities supervised by a member of the faculty. Although capable of 1,000 watts to the antenna, the final amplifier was seldom used. The equipment is housed in modern LeFebure racks and the receivers are RHO's.



W6FHQ—Lester "Barney" Harris, the op of this San Bernardino, Calif., station, is a projectionist at the local Fox theater. He is 36, was born in Los Angeles, and at present is studying radio engineering.

He has been an amateur since the end of World War I and his favorite bands are the 20 and 75-meter fones. He has WAC on the former band using a kilowatt and a home-made three-element beam. He has worked all three of the base stations in the Antarctic.

W8TPN—When you say W8TPN you may as well add W8RGL since Robert D. Schenck, the operator, uses both stations. W8TPN is at Bucyrus, Ohio, and the other at Cardington, about 40 miles away. His card, shown above, is rather unusual since both calls are combined.

In October, 1937, Bob received his Class B license and went on 80-meter CW and 300 watts. There he worked WAS, F18B, G6WY and K4DTH. Then he went to 40 meters and WAC with the exception of Asia and about 20 countries. In February, 1939, he moved to 75-meter fone, where he has been since.

W8TPN is a Meisner Signal-Shifter driving a TZ40 in the final with 100 watts. W8RGL consists of a 6L1 crystal oscillator, parallel 10T's buffer and a pair of TW75's in the final, running about 400 watts.

Bob firmly believes in the art of QSLing and does so 100 per cent.

W6FHQ is an important link in traffic from army and navy personnel on the Pacific Islands and the Philippines to their families back home.

Since Barney has a couple of other hobbies—experiments and horse raising—his shack is loaded with test equipment, riders' manuals and technical electrical books. He holds a broadcast station operator's license and installed the first police radio transmitter and equipment in San Bernardino.



W6FHQ, "Barney" Harris of San Bernardino, Calif.

Barney likes to QSL to all amateurs and SWLs and although his work often prevents quick response, the cards eventually get on their way. His card is reproduced at the head of The W Section.

An X-EC unit is used for frequency control with a pair of RCA 806's in the final. Modulation is a pair of RCA 81's, Class B.

W7BVL—When you write to W7BVL, you may put a "Dr." before the name of Howard L. Dull. The op of W7BVL is a dentist in busy Seattle. He is so busy that W7BNM, Louis Kapetan, Jr., took over the task of telling Radexers about him.

Dr. Dull not only keeps busy in his office, but outside activities fill up much of his spare time. At regular intervals he attends the children of the Junior Red Cross in Seattle and is vice president of the local community club. For recreation he plays tennis, golf, and skates. He also is a devotee to the sport of small-bore rifle shooting.

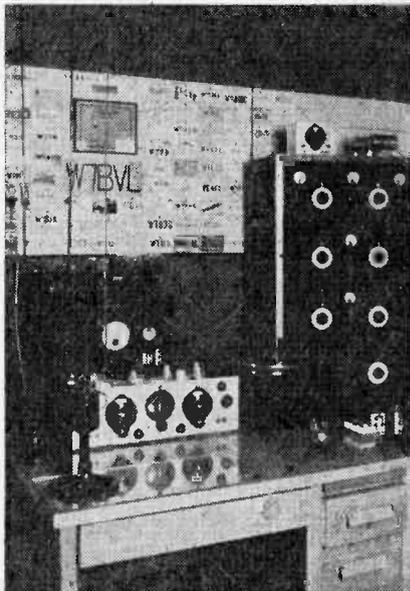
The photograph of the doctor's rig shows the excellent equipment maintained to operate W7BVL on 20-meter fone. Two HF-100's running with 200 watts are in the final. Receiver is a home-built nine-tube super het, and most of the other equipment is also homemade.

Page forty-six

Attention, SWLs! Dr. Dull agrees with W7BNM that the SWL card that earns a reply is the "meaty" card in which details of the transmission are included. If there is anything unusual about the transmission, make a note of it, give the condition of the signal truthfully. Above all, give the accurate date and time of transmission. These two agree that the average amateur, surprisingly enough, appreciates receiving cards and reading something about the parties who send them. Sending postage should be a prerequisite.

Dr. Dull is 27 years old and, XYLS, he is unmarried!

Other W news: 9QMW is Tom E. Hardy, an inspector in the United States Immigration Border Patrol, stationed at Grand Forks, N. D. Only QRM prevents him from being heard anywhere even on the 160-meter band where he is located. He packs a tremendous wallop.



W7BVL, Dr. Dull's station in Seattle, Wash. The nine-tube superhet receiver and the 200 watt transmitter, as well as most of the other equipment shown, is home made.

W6SAI sends one of the most beautiful QSL cards ever seen. . . . W1-EAL QSLs promptly as does W9-YXS. . . . W9MWR in Lexington, Ky., will verify all correct reports and has a nice QSL—he is on 75-fone. . . . W9BNP, also in Lexington, on 80 CW and 160-fone, verifies.

Two Scranton, Pa., amateurs—W8QFO and W8AFV verify for return postage. Both are on 160-meter fone. W8EGH at West Pittston runs 650 watts on the same band. W8DAI in Scranton made his entire 160-meter fone rig, even the mike.

W5KD will definitely NOT QSL. . . . When after veris from W5AOH and W5HUU don't send self-addressed envelopes because their cards are too large. Just send three one-cent stamps. . . . W6LYP has picture of his rig for his veri. . . . W6PJS verified for return postage. . . . W7EUZ and W7HDS are husband and wife and both QSL. . . . W9FFB heard often on 20-fone QSLs.

U. S. S. R.

A list of frequencies in use is released by Radio Center, Moscow, but no call letters are shown. Frequencies are: 7545 kcs., 9010 kcs., 9520 kcs., 9600 kcs., 11724 kcs., 11500 kcs., 11710 kcs., 11830 kcs., 11910 kcs., 12000 kcs., 14717 kcs., 150040 kcs., 15180 kcs., 15715 kcs., and 18540 kcs. (RX)

RV-15 on 4273 kcs. at Khabarovsk and an unidentified station on 9565 kcs. are heard in parallel with a new station RV-2 in Khabarovsk on 6115 kcs. from 6:30-7:30 a.m. Program opens with the playing of "Internationale." (Skyten—Mass.)

RV-96 on 9520 kcs. heard irregularly from 7-8 p.m. to North America with program in English. Also heard in the afternoon with a fair signal. (Skyten—Mass., Benkley—Texas)

RWG on 14720 kcs. is a new station at Moscow heard from 7:30-8 a.m. with program in Finnish. They are heard at 6:00 a.m. in parallel with 18540 kcs. broadcasting news in English. (Skyten—Mass.)

A purely electronic means of colored television is under development by engineers of the Allen B. DuMont Laboratories, but it is considered solely in terms of an ultimate goal far beyond the more immediate problems of black-and-white television.

Commenting on recent demonstrations of colored television by a leading broadcaster, Mr. Du Mont points out that color is a natural television step ahead. The principles and various techniques have long been available to television workers. Many demonstrations of colored television have been made during the past decade, using mechanical means of filtering at the pickup and a color wheel at the receiver. However, Mr. Du Mont believes that mechanical means are too complicated, and his engineers have been working on a strictly electronic means for ultimate commercialization. A special screen will be used for automatically selecting and rendering the elementary colored images in proper sequence without color wheels or moving parts.

Venezuela

A letter from Senor Jesus M. Diaz, owner of YV2RN states that the station's frequency is now 4830 kcs. Sr. Diaz also operates YV2RB on 880 kcs. He would like to receive reports on this new frequency. Address is: Apartado-37, San Cristobal, Venezuela. This letter lends still further assurance to my belief that all Venezuelans have changed their short-wave frequencies. (Lauansky, Mass.)

YV-PJ on 4975 kcs. at Coro is heard on Thursday at 7:30 p. m. with a program of all popular records. (Laudansky, Mass.)

YV1RO on 4780 kcs. at Trujillo has American recordings just before sign off at 10 p.m. (Jewell, Calif.)

YV1RZ on 4850 kcs. at Trujillo, known as "Radio Valera" can always be counted on for some beautiful Spanish music. (Laudansky, Mass.)

The Hobby Called DXing

An outline of the Art of Hearing, wherein the searcher for distant stations will find many facts which will aid him in the enjoyment of the full possibilities of his radio receiver.

To be a DXer, all you need is a radio set, an aerial, and good ears. To enjoy DXing, nothing is necessary except the ability to enjoy a good radio program. If you have heard at least one radio station outside your own home town, you are a DXer, and if you aren't satisfied with that reception and want to hear more stations, farther away, you are a dyed-in-the-wool DX fan.

It doesn't matter very much what kind of a radio set you have, except for the natural provision that it should be in good working order and attached to a good aerial.

If your set happens to be a shortwave set, it probably tunes from about 5000 to about 30,000 Kilocycles. For complete shortwave coverage, it will include the 6000, 9500, 11,000, 15,000 and 18,000 kilocycle bands, most likely marked on your dial minus the cyphers: 6, 9.5, 11, 15, 18. These numbers are megacycles, or thousands of kilocycles.

If your set is a "two-band" set, it includes the standard broadcast band, and extends perhaps two or three thousand kilocycles into the shortwave spectrum. These receivers do not provide shortwave broadcasting entertainment, but do enable their owners to hear numerous police and airport stations.

If you have an "all-wave" receiver, you

have a complete shortwave receiver, plus a complete broadcast band receiver, all housed in one cabinet and operated by one set of dials.

If your receiver is strictly a broadcast band receiver, it tunes only from 540 to 1500 or 1600 kilocycles. The dial of your broadcast band receiver is also apt to lack the cyphers in the kilocycles markings, but 54, 6, 8, 11, 16, etc. should be considered as 540, 600, 800, 1100, 1600 etc.

On any of these types of sets, thrills galore await you. On the broadcast band, you can hear stations in any part of North America; during winter evenings some South American stations, even as far away as Buenos Aires in the Argentine, will be apt to come in, and, if you have good luck, you might also hear broadcasters from Europe, Asia or the Antipodes.

On the "two-band" receiver, you can also hear hundreds of North American police stations, airports, ships, and other emergency services.

If yours is a shortwave set, the entire world is at your finger tips. Stations on every continent will roll in, day after day, throughout the entire year.

Shortwaves Easiest

Due to the design of the transmitting aerials, and to the nature of radio waves

themselves, the shortwaves travel most easily over great distances. In fact, some shortwave stations are more easily heard at a distance than they are close-by, because the waves are projected skyward, skipping over many hundreds of miles before returning to earth.

There are high powered shortwave broadcasters in all the large European capitals, in the Union of South Africa, India, China, Japan, Australia, and many of the large South American cities. All these stations come in as loudly, as clearly, and almost as consistently as local broadcasting stations. Besides these high powered voices, there are hundreds of smaller stations, some of them in out-of-the-way localities, scattered around the world from Greenland to Antarctica, and from Tahiti to Tibet. These smaller stations are harder to get, and the reception of some of them truly merits a feather in anyone's hat.

There are some listeners who tune exclusively on the standard broadcast band, and hear almost as many different countries, over incredible distances, as one can hear via shortwaves. Reception of such stations, as well as reception of the hard-to-get shortwaves, requires infinite patience, and the most careful manipulation of the receiver dials.

What do we mean by "careful manipulation"? What can a person do, aside from merely twisting the dials? Here-with is explained the Art of Tuning.

The Art of Tuning

Several years ago, in RADEX, one of

the country's foremost broadcast band DXers, Mr. Carleton Lord, wrote, "The average foreign catch is the result of careful planning, skillful tuning, and a measure of old-fashioned good luck."

In tuning the broadcast band, no doubt the best system to use is the one known as "spot tuning." The DXer makes out a list of five or six powerful stations which he wants to hear. Considering the season of the year and the time of day, he picks out broadcasters which are known to be on the air and which should be heard in his location.

He dials the frequency of the first station and listens. If a signal is heard, it may be the station he wants, or it may be some unwanted station. Nevertheless, he waits for an announcement. If there is nothing heard on the frequency, he waits anyway, on the chance that the desired station has momentarily faded out. He does not move on until he has waited for a reasonable length of time. Then he moves on to the second station he has chosen for the night's work, and so on down the list. Upon completing the list, he starts over, then over again, and again. This system of tuning, more than any other, will show the best returns for the time spent at the dials.

DXers may try some "fishing." Running up and down the broadcast band, he may stop at audible carriers and see what is there. This type of tuning, however, is bound to miss a large percentage of weak signals—particularly those which may have faded out for the moment—and should be used only when going after something out of the ordinary.

Should the combined process of "spot tuning" and "fishing" produce no results the first night, the listener should merely resolve to try again. Several nights, or even weeks, may pass before the first foreign station is heard.

Sometimes certain minor adjustments in a receiver will aid in clearing up announcements. If interference is high pitched, it is likely that turning the tone control to the bass position will eliminate some of the trouble. Slight detuning from exact resonance will cut out some low-pitched noise. Some turners go so far as to have a service man introduce some regenerative (feed-back) action into the set, but be careful here; it destroys the tone quality for ordinary listening.

Even the matter of turning the dial is important, especially on shortwaves. The dial should be turned slowly—so very slowly that its movement is not perceptible to the eye. Every little whiff of sound should be thoroughly investigated before moving on.

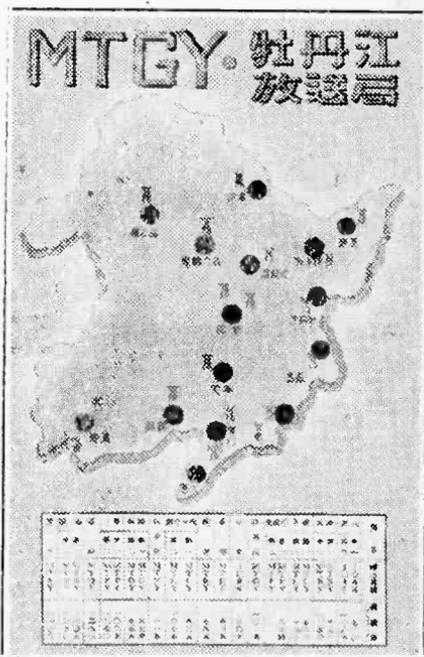
When to Tune

The Broadcast Band

In general, listeners find reception of South American stations best during October, November, February and March, and most frequently heard are stations in Argentina and Brazil, with Colombia and Venezuela running a close second. DXers should start tuning for SA's at sundown, and reception should be at its peak during the next two hours.

The Antipodes (Australia and New Zealand) are best received during the

same month's as the SA's namely, October, November, February and March. On the west coast they are heard during the mid-winter months as well. New Zealand stations begin to come in near 4 am EST, and Australians a little later.



The Asiatics, particularly the Japanese, are heard best during December and January, in the early morning hours before sunrise, although DXers on the west coast find Japanese stations sometimes interfering with their regular local broadcasters.

European stations start to come through during November and continue to be heard through January. Along the eastern seaboard TA's start coming in near 4:30 pm and can be heard until

about 7 pm at the latest. The best time to log them, however, is during the early morning, after 1:30 am EST.

When to Tune

The Shortwaves

Shortwave transmission depends considerably upon conditions in the ionosphere, a layer of ionized particles far out in the earth's outer atmosphere. The sun, and particularly the presence or absence of spots on the face of the sun, are important factors in shortwave propagation characteristics. It has been found from experience, though, that the adoption of certain frequencies at certain times will aid in assuring dependable reception. For example, reception near six megacycles (6000 kilocycles) has been found to be best in the winter time when darkness covers the entire path of the transmission. Fifteen megacycles, on the other hand, being a comparatively high frequency, is exceptionally good in the summer and comparatively poor in the winter. The table which follows shows the best reception times for certain frequencies:

6000 kilocycles, best when station is at least 300 miles or more away, in the winter, when a large part or all of the path between transmitter and receiver is in darkness

9000 kilocycles, best when station is at least 800 miles away; spring and fall, morning and evening.

11000 kilocycles, best when transmitter a thousand miles away, during the daytime in the summer.

15000 kilocycles, a distance of 1500 miles from the transmitter is best, in the daytime

Besides Listening

All DXers tune, and listen, and in addition to tuning and listening, they have many other activities. We believe that 99% of them collect QSL cards.

A QSL is a card, or a letter, or some sort of a communication from a radio station, confirming, or verifying, the fact that the listener heard the station. There are almost as many different kinds of QSL's as there are radio stations, some of them plain, some exceedingly beautiful, novel or interesting, but all of them valuable to the listener as proof of his reception. QSL's are easy to get, if the DXer follows several simple rules.

The first and foremost rule is that DXers should never request a verification from a station until the station has been positively identified.

When the listener is sure of the identity of the station to which he has listened, he should compile two kinds of information. First, sufficient information about the program heard to enable the station to recognize the material as material actually broadcast by them, and second, as much technical information as possible so the report will be of some value to the station's engineering department.

- R3 is a weak signal.
- R4 are signals of fair volume.
- R5 are fairly good signals.
- R6 are good signals.
- R7 are moderately strong signals.
- R8 are strong signals.
- R9 are extremely strong signals.

The QSA Code

The QSA Code is used to describe the understandability of a station's signal.

- QSA1 is a signal that is unreadable.
- QSA2 is one that is barely perceptible. A word can be understood now and then.
- QSA3 is understandable with difficulty.
- QSA4 is a signal that can be understood with practically no difficulty.
- QSA5 is perfectly understandable.

Postage

The rates of postage to foreign countries are:

- 3c for each ounce or fraction thereof, to United States, all of North America, all of South America and Central America except the foreign possessions there. Spain is also 3c.
- 5c for each ounce and 3c for each additional ounce, for Europe, Asia, Africa, the Antipodes, and the European possessions in South and South Central America and the West Indies.

When writing to radio stations it is customary to enclose return postage when

requesting verifications. An unused 3c stamp can be sent to United States stations, but to all other countries, International Reply Coupons should be sent. These can be procured for 9c each from any post office. When buying Reply Coupons be sure that they are correctly post-marked in the circle on the left side of the coupon.

For the convenience of DXers, unused postage stamps of many foreign countries may be purchased from the Return Postage Bureau, 85 Francisco Ave., Rutherford, N. J.

SWL Cards

QSL cards are sent to listeners by radio stations, and many radio listeners have adopted the practice of having similar cards printed for themselves, to be sent to stations with their reports, or to be exchanged among other listeners. These listener cards are called SWL cards.

Many of the SWL cards are as attractive and interesting as QSL's and their collection is an intriguing sideline of the hobby of DXing.

In an adjacent column are some QSL and SWL cards. At the top of the column is a QSL from an amateur station in the Belgian Congo. The second is a verification from a broadcasting station in Mexico. Third is shown an SWL card used by a member of the Radex Club. The bottom card is from an amateur in New Zealand. In another column is illustrated a QSL from a shortwave station in Manchukuo.

Listeners desiring to have SWL cards printed may obtain sample cards and further information from their fellow Radex Club member, Merton T. Meade, of the Bowman-Meade Printing Co., 819 Wyandotte St., Kansas City, Mo.

Radio Language

In correspondence with radio stations, and with fellow DXers, it will be found that certain terms and expressions are frequently used. First we shall explain the technical radio terms, then the radio "slanguage" used by hams and listeners.

Radio waves travel with the speed of light, which is 186,000 miles per second, or 299,820,000 meters per second. By the "frequency" of a station we mean the number of pulsations which that station produces within one second. The speed of radio is so great, however, that "cycles" are produced by the millions and it is more convenient for us to use terms which are multiples of a cycle. These terms are the "kilocycle," which is equal to 1000 cycles, and the "megacycle," which is equal to 1,000,000 cycles, or 1000 kilocycles. A frequency of 1,000,000 cycles can therefore be expressed as 1000 kilocycles or 1 megacycle.

The correct abbreviation for the kilocycle is kc/s. which really means "kilocycles per second." A unit called the Hertz is sometimes used (usually in Europe) which includes the time element: a kilohertz (abbreviated kHz) is a kilocycle per second.

The abbreviation for megacycles is megs. When megacycles are shown, they can be converted into kilocycles by

changing the decimal point to a comma.
Ex: 5.900 megs. — 5,900 kes.

The wavelength of a station is the length, in meters of each cycle. The use of the term "wavelength" and its measurement, "meters," is nearly obsolete, especially in this country, and is avoided in RADEX.

The amount of power that a station uses is expressed in watts, and 1000 watts is a kilowatt.

Radio "slanguage" can be divided into two parts, the abbreviations, and the slang. The abbreviations most often encountered by listeners are:

QRA, the address of a station

QSL, a verification

QSO, a communication between two stations

QTH, the location of a station. (QRA is the mailing address: QTH, the geographical location in latitude and longitude).

QRH, a station's frequency.

QRM, interference from another station

QRN, atmospheric static.

QRT, cease, or quit.

QSA, see the QSA Code explained above.

QSB, fading

RST, often on QSL cards is not an abbreviation but a contraction of the three terms R Code QSA Code, and Tone Code.

Most of the expressions and abbreviations used by radio fans are self explanatory, but just to make the record complete we shall explain as many as we think our readers will encounter.

RCVR is a receiver; XMTR, trans-

mitter; CW, code; Mod, modulation; TNX, thanks; OM, old man; YL, young lady; XYL, a wife; OP, operator; SW, shortwaves; BCB, broadcast band; SWL, shortwave listener; BCL, broadcast listener.

The number 73 means "best regards."

SWL TRADING POST

(Continued from page 20)

H. V. Gribble, Traffic Box 42, Minneapolis, Minn. (SWL cards).

James R. L. Fitzgerald, Jr., 5324 Bloomingdale Ave., Richmond, Va. (Wishes reception reports on Richmond and Petersburg, Va. stations).

Jack Welsh, W9MZW, Kingston, Ill. (SWL Cards).

Glenn Thormann, 271 Park Ave., Westbury, N. Y. (SWL cards and correspondence).

Frank J. Kosik, 1816 Allport St., Chicago, Ill. (SWL Cards).

John B. Blass, 102 N. Jefferson St., Batavia, Ill. (Swap large stamp collection for a used communications receiver).

Wm. Akens, 1029 Spring Brook Ave., Moosic, Pa. (SWL Cards).

Frederick Kummer, 2348 W. 48th St., Cleveland, Ohio (Correspond with BCB DXers).

Fred R. Borchardt, 5103 N. Sherman Bvdl., Milwaukee, Wis. (Correspond with DXers interested in hams).

W. H. Herman, 622½ E. 99th St., Cleveland, Ohio (SWL Cards).

Rudolph C. Zak, 2509 E. 89th St., Cleveland, Ohio (Trade radio parts, your choice, for auto radiator name plates and stamps of United States and Czechoslovakia).

Richard Galen, 4 Manhattan Ave., New York City (SWL Cards).

Betty Galen, 4 Manhattan Ave., New York City (SWL Cards).

E. S. Herndon, Paris, Texas (SWL Cards).

Francis Brooke, Reesville, Ohio (Will swap SWL cards, and will trade old National Geographics for old Radio Guides).

Forest L. Webb, 140 W. San Luis, Salinas, Calif. (Correspond with DXers interested in Pacific Coast, Cuban and TP stations-BCB Band).

Eldon Shipman, 261 Vine St., Fulton, Mo., (Correspond).

Steven Paul Veres, 7 Orchard St., Garfield, N. J. (SWL cards).

Don C. Johns, 1342 Campbell Ave., Des Plaines, Ill (SWL cards).

Joseph J. Becker, 415 So. 11th St., Hamilton, Ohio (SWL cards).

G. R. Jewell, Jr., Box 386, San Diego, Calif. 1(SWL cards).

Vincent Stasen, 5347 Priscilla St., Philadelphia, Pa. (SWL cards).

Mae McKenzie, 823 Shelby St., Indianapolis, Ind. (SWL cards).

Don Reynolds, 9 So. Miller St., Newburgh, N. Y. (Correspond with BCB DXers).

Oscar Williams, Shady Ave., Clarion, Pa. (SWL cards).

Joe Ribinski, 57 Oak St., Yonkers, N. Y. (Correspond with owners of Sky Buddy).

Bob Murphy, 5630 S. E. Yamhill, Portland, Ore. (SWL cards).

Vernon Lee Gibbs, Route 5, Lexington, Ky. (SWL cards).

Floyd Flater, 316 Campbell Ave., White Bear Lake, Minn. (SWL cards).

YV5RO on 3500 kcs. at La Guaira was heard at 8:45 p.m. (Laudansky, Mass.)

Television Stations

.V2XAB	42,000- 56,000	Columbia Broadcasting System, Inc.
W2XCB	336,000-348,000	New York, N. Y.
	60,000- 86,000	Columbia Broadcasting System, Inc. Portable-Mobile, New York, N. Y.
W2XVT	42,000- 56,000	Allen B. Du Mont Laboratories, Inc. Passaic, N. J.
W9XAL	42,000- 56,000	First National Television, Inc.
	60,000- 86,000	Kansas City, Mo.
W1XA	60,000- 86,000	General Electric Company Bridgeport, Conn. (C. P.)
W2XB	60,000- 86,000	General Electric Company Albany, N. Y.
W2XH	288,000-294,000	General Electric Company Schenectady, N. Y.
W1XG	42,000- 56,000	General Television Corporation
	42,000- 56,000	Boston, Mass.
W2XBS	42,000- 56,000	Don Lee Broadcasting System
	60,000- 86,000	Los Angeles, Calif.
	44,000- 50,000	C. P.—Hollywood, Calif.
W6XAO	42,000- 56,000	Don Lee Broadcasting System Area of Los Angeles, Calif.
W2XBS	42,000- 56,000	National Broadcasting Co., Inc. New York, N. Y.
W2XBT	92,000 and 156,000-162,000	National Broadcasting Co., Inc. Port- abel (Camden, N. J. and New York, N. Y.)
W2XBU	312,000-324,000	National Broadcasting Co., Inc.
	282,000-294,000	Portable-Mobile, New York, N. Y. (C. P.)
W2XE	42,000- 56,000	Philco Radio & Television Corpora- tion Philadelphia, Pa.
W3XP	204,000-210,000	Philco Radio & Television Corpora- tion Philadelphia, Pa.
W9XG	2,000- 2,100	Purdue University West Lafayette, Ind.
W2XDR	42,000- 56,000	Radio Pictures,, Inc.
	60,000- 86,000	Long Island City, N. Y.
W3XAD	321,000-327,000	RCA Manufacturing Company, Inc. Portable (Camden, N. J.)
W3XEP	42,000- 56,000	RCA Manufacturing Company, Inc.
	60,000- 86,000	Camden, N. J.
W9XK	2,000- 2,100	State University of Iowa Iowa City, Iowa
W9XUI	42,000- 56,000	State University of Iowa
	60,000- 86,000	Iowa City, Iowa
W9XZV	42,000- 56,000	Zeith Radio Corporation
	60,000- 86,000	Chicago, Ill.

The World's Radio Stations

A complete listing of the radio stations of
the world from 500 kcs. to 500,000 kcs.

5000	TFL WWV	C G	.... ....	Reykjavik, Iceland Beltsville, Md. Standard frequency transmissions. National Bureau of Standards, Washington, D. C.
	YV5RK	B	....	Caracas, Venezuela
5010	YV5RM	B	....	Caracas, Venezuela
5020	YV4RO	B	....	Puerto Cabello, Venezuela
5025	XFA	T	1500	Hamilton, Bermuda
5032½	KAIK	FA	50	Sitka, Alaska. Marine Airways
	KAIY	FA	50	Chichagof, T. A. Same as KAIK.
	KANH	FA	50	Juneau, T. A. Same as KAIK.
	WDI	T	20000	Ocean Gate, N. J. Am. Telephone & Teleg. Co.
5033	YV5RN	B	....	Caracas, Venezuela
5040	KAZV	FA	100	Fairbanks, T. A. Harold Gillam
5042½	KBOF	FA	50	Rainy Pass District, T. A. Star Lines, Inc., Rhon River Emergency Field
	KFRA	FA	100	Flat, T. A. Star Air Lines, Inc.
	KFRD	FA	100	Candle, T. A. Same as KFRA.
5077	WCN	T	80000	Lawrenceville, N. J.
5110	VJI	....	....	Cloncurry, Osl., Australia. Australian Airways Medical Service
5122½	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
5130	HRE	C	400	Tegucigalpa, Honduras. Tropical Radio Tele- graph Co.
5135	KGHX	ZP	....	Santa Ana, Calif. Orange County
	HGHZ	ZP	100	Little Rock, Ark. City of L. R.
	HGPI	ZP	500	Beaumont, Tex. (Days only). City of B.
	KHPF	ZP	500	Jefferson City, Mo. State of Mo.
	KNFE	ZP	500	Duluth, Minn. City of D.
	KOHH	ZP	....	Portable, days only. State of Ore. Police & Highway Depts.
	WPGQ	ZP	....	Columbus, Ohio. State of Ohio
	WPHN	ZP	500	Tampa, Fla. (Days only). City of T.
5157½	KADY	T	40	Petersville, Alaska. (Days only). W. H. Cuddy.
	KAJX	T	18	Holy Cross, T. A. Catholic Society of Alaska
	KAKR	T	25	Candle, T. A. Candle Community Radio Assn.
	KATP	T	....	Kako Landing, T. A. Joel S. Ramstad
	KBNM	T	25	Platinum, T. A. (Days only). Alaska Traders.
5138	KALY	C	25	Egavik, Alaska. (Only between pm and 6 am, PST). R. B. Julian.
	KAMX	C	40	Utopia Creek, T. A. (Days only). L. McGee
	KANR	T	20	Kalskag, T. A. (Days only). Fred H. Whitcher
	KASI	ZP	....	Allakaket, T. A. (Days only). Sam Dubin
	KGHN	ZP	....	Lawton, Okla. City of L.
	KGHZ	ZP	100	Santa Ana, Calif. Orange County
	KHPF	ZP	500	Little Rock, Ark. City of L. R.
	KHPG	ZP	200	Jecerson City, Mo. (State of Mo. Kirkwood, Mo. (Days only). State of Mo. Highway Patrol
	KGPI	ZP	500	Beaumont, Tex. (Days only). City of B.
	KNFE	ZP	500	Duluth, Minn. (Days only). City of D.
	KOHH	ZP	....	Portable, days only. State of Ore. Police & Highway Depts.
	KOBX	ZP	50	Portable. State of Wash.
	WPGG	ZP	300	Findlay, Ohio. State of Ohio.
	WPGO	ZP	....	Columbus, Ohio. Same as WPGG.
	WPHC	ZP	300	Massillon, Ohio. Same as WPGG.
	WPHK	ZP	300	Wilmington, Ohio. Same as WPGG.
	WPHN	ZP	500	Tampa, Fla. (Only only). City of T.
	WPHT	ZP	300	Cambridge, Ohio. Same as WPGG.
	WQPI	P	250	French Village, Ill. of State of Ill.
	WQPZ	ZP	19	Portable. State of Ill. Dept. of Public Works and Bldg. Div. of Highways's Bureau of State Highway Maintenance Police.
5145	HRU	C	400	Puerto Castilla, Honduras. Tela Railroad Co.
	HRX	C	400	La Lima, Honduras. Same as HRU.
5146	PMY	B	1000	Bandoeng, Java, N. E. I.
5167½	KIBZ	T	....	Waterfall, Alaska. Nakat Packing Corp.
	KIOJ	T	5	Stuyahok Landing, T. A. W. R. E. Moore.
	KLA	T	....

5172½	KFCA	FA	1000	Waterfall, T. A. Same as KIBZ.
	KRGG	FA	400	Denver, Colo. Aeronautical Radio Inc.
	KTCW	FA	1000	Garden City, Kans. Same as KFCA.
5195	KGHP	ZP	....	Wichita, Kans. Same as KFCA.
	KGHX	ZP	....	Lawton, Okla. City of L.
	KGHZ	ZP	100	Santa Ana, Calif. Orange County
	KGPI	ZP	500	Little Rock, Ark. (Days only). City of L. R.
	KHPF	ZP	500	Beaumont, Tex. (Days only). City of B.
	KHPG	ZP	200	Jefferson City, Mo. (Days only). State of Mo., Highway Patrol
	KNFE	ZP	500	Duluth, Minn. City of D.
	KOHM	ZP	....	Portable, days only. State of Ore., Police & Highways Depts.
	KQBX	ZP	50	Portable. State of Wash.
	WPGG	ZP	300	Findlay, Ohio. State of WPGG.
	WTGQ	ZP	....	Columbus, Ohio. Same as WPGG.
	WPHC	ZP	300	Massillon, Ohio. Same as WPGG.
	WPHK	ZP	300	Wilmington, Ohio. Same as WPGG.
	WPHN	ZP	500	Tampa, Fla. (Days only). City of T.
	WPHI	ZP	300	Cambridge, Ohio. Same as WPGG.
	WQPJ	ZP	250	French Village, Ill. State of Ill.
5200	YAH	C	....	Kabul, Afghanistan
5207½	KAEW	T	....	Umnak, Alaska. Territory of Alaska
	KAGN	T	50	Portable. Alaska Aeronautics and Communications Commission
	KAGO	T	10	Portable. Same as KAGN.
	KAJJ	T	....	Atka, T. A. Same as KAEW.
	KAJU	T	....	Attu, T. A. Same as KAEW.
	KAQF	T	....	Unalaska, T. A. Same as KAEW.
	KAXP	T	10	St. Michael, T. A. (Days only). Northern Commercial Co.
	KBML	T	84	Ophir, Esperanto, T. A. Three Miners, Inc.
	KBNM	T	25	Platinum, T. A. (Days only). Alaska Traders.
	KEXO	T	50	Portable. Same as KAGN.
	KEXP	T	50	Portable. Same as KAGN.
5287½	WSEK	G	....	Shennandoah Nat'l Park, Va. Nat'l Park Service. U. S. Dept. of Interior.
5300	VK8SI	....	....	Wyndham, Australia. Australian Airways Medical Service.
	ZIK3	B	....	Belize, British Honduras
5310	KAFF	FA	50	Sioux Falls, S. Dak. Aeronautical Radio
	KAZV	FA	100	Fairbanks, Alaska. Harold Gillam
	KHCFI	A	30	NC-552-N. Peck & Rice Airways, Bethel, T. A.
	KHCIS	A	30	NC-10795. Star Air Lines.
	KHCRW	A	30	NC-18445 Raymond I. Peterson, Bethel, T. A.
	KNCN	FA	300	Sheridan Wyo. Same as KAFF.
	WARG	FA	45	Augusta, Ga. Same as KAFF.
5330	HRC2	C	400	Tela, Honduras. Tela R. R. Co.
5342	HRZ	C	500	Guanaja, Honduras. Gobierno de Honduras
5350	HRT	C	100	Utila, Honduras. Gobierno de Hond.
5360	VK8UB	....	....	Halgoorlie, W. A., Aust. Australian Airways Medical Service.
5377½	WAZM	FA	40	Madison Wis. Aeronautical Radio, Inc.
5390	CY3O	FA	....	Charlie Lake, B. C. United Air Transport, Ltd.
5410	VKSUS	....	....	Alice Springs, S.A., Aust. Australian Airways Medical Service.
5420	HRT2	C	500	Tegucigalpa, Honduras. Rosario Mining Co.
5440	HRV	C	100	La Ceiba, Honduras. Gobierno de Hond.
5450	HRP	C	500	San Pedro Sula, Honduras. Gobierno de Hond.
5452½	VEF	G	....	Aklavik, N.W.T. Dept. of Nat'l Defense, Dominion Gov't.
				Aklavik, N.W.T. Same as above.
6470	VOA3	....	....	Jesselson, Brit. North Borneo
5480	XTL	....	....	Hankow, China
5485	HDR	FA	14	Toncontin, Honduras. Pan American Airways
5510	PWH	....	....	Abrolhos, Brazil
5520	KHCY	A	100	NC-18997. American Export Airlines
	WBF	CT	....	Hingham, Mass. Tropical Radio Teleg. Co.
5565	WBF	MR	....	Hingham, Mass. Tropical Radio Teleg. Co.
5572½	KAZV	FA	100	Fairbanks, Alaska. Harold Gillam
	KHCKB	A	30	NC-16159. James M. Dodson, Fairbanks, T. A.
	KHCRW	FA	30	NC-18445. Raymond Peterson, Bethel, T. A.
5582½	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
	KNCN	FA	300	Sheridan, Wyo. Aeronautical Radio, Inc.
	KRBD	FA	400	Red Bluff, Calif. Same as KNCN.
	KRCG	FA	400	Garden City, Kans. Same as KNCN.
	KACW	FA	1000	Wichita, Kans. Same as KNCN.
5590	PWH	....	....	Abrolhos, Brazil
5592½	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio
5602½	KHCNY	A	29	NC-21107. All American Aviation, Inc., Wilmington, Del.
	KHCQR	A	50	NC-21750. Canadian-Colonial Airways, Inc.

	KHCQS	A	50	NC-21750. Same as KHCQR.
	WSJI	FA	50	Elkins, W. Va. Aeronautical Radio, Inc.
5612½	KHCNY	A	20	NC-21107. All American Aviation, Inc., Wilmington, Del.
	WSDJ	FA	50	Elkins, W. Va. Aeronautical Radio, Inc.
5615	HRIKC	FA	100	LaCeiba, Honduras. T.A.C.A.
	HR2KC	FA	100	San Pedro Sula, Honduras, T.A.C.A.
	HR3KC	FA	100	Toncontin, Honduras, T.A.C.A.
5620	HRI3	C	500	Rey del Oro, Juticaplá, Honduras. Yoy. McCartney.
	HRI4	C	500	Agua Fria, Honduras. Cia. Mineral de Aguas Fria.
5622½	KANG	FA	50	Juneau, Alaska. Alaska Air Transport, Inc.
	KANU	FA	50	Kimshan Cove, T.A. Same as KANG.
	KAXT	FA	30	Sitka, T.A. Same as KANG.
	KAYP	FA	50	Ketchikan, T. A. Same as KANG.
	KAZV	FA	100	Fairbanks, T.A. Harold Gillam.
	KBOF	FA	50	Rainy Pass District, T.A. Star Air Lines, Inc., Rhon River Emergency Field.
	KFERA	FA	100	Flat, T.A. Star Air Lines, Inc.
	KFRD	FA	100	Candle, T.A. Same as KFERA.
	KFWC	FA	30	Lizienki Inlet, T.A. Same as KANG.
	KBJW	FA	30	Petersburg, T.A. Same as KANG.
5630	CY4A	FA	...	Bousquet, P. Q. General Airways, Ltd.
5632½	KHCNY	A	20	NC-21107. All American Aviation, Inc., Wilmington, Del.
	KHCQR	A	50	NC-21750. Canadian-Colonial Airways, Inc.
	KHCQS	A	50	NC-21750. Same as KHCQR.
5642½	WSDJ	FA	50	Elkins, W. V. Aeronautical Radio
	GYG	FA	...	Granbrook, B. C. TransCanada Air Lines.
	VFBJ	FA	...	Coleman, B. C. Dept. of Transport.
5660	HRR	C	200	Santa Rosa de Copan, Honduras. Gobierno de Hond.
5652½	KAXO	FA	30	Taku Lodge, Alaska. Alaska Aeronautical and Communications Commission
	KAZV	FA	100	Fairbanks, T.A. Harold Gillam
	KBJW	FA	30	Petersburg, T.A. Alaska Air Transport, Inc.
	KBLC	FA	50	Corpus Christi, Tex. Aeronautical Radio.
	KBOF	FA	50	Rainy Pas District, T.A. Star Air Lines, Rhon River Emergency Field.
	KBRN	FA	3000	Brownsville, Tex. Same as KBLC.
	KFRG	FA	30	Valdez, T.A. Lyle Airways.
	KHCFI	A	30	NC-552-N. Peck & Rice Airways, Bethel, T.A.
	KHCIS	A	30	NC-10795. Star Air Lines, Inc.
	KHCNY	A	20	NC-21107. All American Aviation, Wilmington, Del.
	KHCQR	A	50	NC-21750, Canadian-Colonial Airways, Inc.
	KHCQS	A	50	
	KHCRW	A	30	NC-18445. Raymond Peterson, Bethel, T.A.
	WAJY	FA	1000	Memphis, Tenn. Same as KBLC.
	WAHZ	FA	50	Birmingham, Ala. Same as KBLC.
	WARS	FA	50	Muscle Shoals, Ala. Same as KBLC.
	WATE	FA	200	Pensacola, Fla. Same as KBLC.
	WATF	FA	200	Tallahassee, Fla. Same as KBLC.
	WEEL	FA	50	Beaumont, Tex. Same as KBLC.
	WGSA	FA	50	Greenville, S. S. Same as KBLC.
	WPAE	FA	50	Philadelphia, Pa. Same as KBLC.
	WSJM	FA	400	Tampa, Fla. Same as KBLC.
5660	HRI	C	100	San Juancito, Honduras. Rosario Mining Co.
5662½	KAZV	FA	100	Fairbanks, Alaska. Harold Gillam
	KBOF	FA	50	Rainy Pass District, T.A. Star Air Lines, Rhon River Emergency Field.

	KFRA	FA	100	Flat, T.A. Star Air Lines, Inc.
	KFRD	FA	100	Candle, T.A. Same as KFRA.
	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
5670	VOB2	....	....	Sandakan, Brit. North Borneo
5672.4	VQAC	FA	....	Grand Falls, Newfoundland. Nfld. Airport, Squadron Leader H. A. L. Pattison.
5672½	WAES	FA	....	Syracuse, N. Y. Aeronautical Radio, Inc.
	WAEV	FA	....	Knoxville, Tenn. Same as KAES.
	WARO	FA	1000	Dayton, Ohio. Same as WAES.
	WSDC	FA	....	Newark, N. J. Same as WAES.
	WSDD	FA	....	Boston, Mass. Same as WAES.
	WSDH	FA	....	Nashville, Tenn. Same as WAES.
	WSDI	FA	....	Cincinnati, Ohio. Same as WAES.
	WSDM	FA	....	Albany, N. Y. Same as WAES.
	WSDO	FA	....	Buffalo, N. Y. Same as WAES.
	WSDP	FA	....	Port Columbus, Ohio. Same as WAES.
	WSDQ	FA	....	Bera, Ohio. Same as WAES.
5692	HRD	FA	14	Toncontin, Honduras. Pan American Airways
5692	KHKD	FA	100	Seattle, Wash. Pan American Airways, Inc.
	KHAGH	A	50	Portable. Aeronautical Radio, Inc. NC-14947. Lt. Col. G. R. Hutchinson, Balti more, Md.
	KIQA	FA	20	Tanana, Alaska. Pacific Alaska Airways, Inc.
	VEPZ	FA	....	Burwash Landing, Y.T. Dominion Govt.
	WPAP	FA	....	Baltimore, Md. Same as KANP.
5700	CPP2	C	....	Viacha, Bolivia
5705	CFU	T	....	Annable, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.
	CZ5Y	T	....	Anyox, B. C. Same as CFU.
	CZ7H	T	....	Cedar Creek, B. C. Same as CFU.
5707½	WAJE	FA	300	Birmingham, Ala. (300 to 600 watts; days only). Aeronautical Radio, Inc.
	WARG	FA	45	Augusta, Ga. Same as WAJE.
	WEEA	FA	....	Atlanta, Ga. Same as WAJE.
	WEEC	FA	....	Charleston, S. C. Same as WAJE.
5713	TGS	B	200	Guatemala City, Guat.
5730	JVV	T	10000	Nazaki, Japan. Kokusai Denwa Kaisha, Osaka Bldg., Tokyo.
5735	HC1PM	B	....	Quito, Ecuador
5737½	CPQ3	C	....	LaPaz, Bolivia
5750	CP2ANB	C	....	Quechisla, Bolivia
	HRU2	C	400	Puerto Castilla, Honduras Teia R. R. Co.

Explanation of the Third Column Symbols:

All the Mobile and Portable-Mobile police stations installed in police automobiles bear the same call letters as the Fixed police broadcast station to which they report, and in many cases they work on the same frequency. We list herewith the Fixed station, and in parentheses we show the number, and the power of the Portable and Portable-Mobile units attached to the station, as for example: WRHD MP 250 (2 units-12 w). Louisville, Ky.

A—Aircraft.
 B—Broadcast.
 C—Commercial Telegraph.
 F—Forestry.
 G—Government.
 P—Police.
 S—Ship.
 T—Radio Telephone.
 FA—Aeronautical (ground).
 FMB—Frequency modulated broadcasting station.
 GEO—Geophysical.
 RC—Circular radiobeacon.
 RD—Directional radiobeacon.
 RH—Direction, finding station.
 LH—Lighthouse.
 RR—Radio range station.
 MP—Municipal police.
 SP—State police.
 ZP—Zone police.
 EM—Emergency.

SEM—Special emergency.
 MF—Marine fire.
 MR—Marine Relay.
 PR—Press relay.
 RB—Relay broadcast.
 FAC—Facsimile.
 TV—Television video.
 TA—Television audio.
 NCE—Non-commercial educational.
 CC—Coastal Telegraph.
 CH—Coastal harbor.
 CHC—Coastal harbor telegraph.
 CHT—Coastal harbor telephone.
 E
 E1
 E2
 E3
 Experimental.
 GE—General Experimental.
 SE—Special Experimental.

BROADCASTING STATIONS BY FREQUENCIES

WITH NAMES OF OWNERS

KEY TO SYMBOLS

As Shown in the
Index by Frequencies

Frequencies are given in kilocycles per second, and wavelengths in meters. Night power is shown in watts in third column and daytime power is shown in parentheses in kilowatts. Thus: (25) indicates 250 watts. Exact frequencies, when not multiples of ten are shown in the second column.

Second Column Symbols
 A—Status in doubt.
 B—National "Blue" Network.
 C—Columbia Network.
 D—Daytime only.
 E—Minor Network.
 F—Canadian Network.
 G—Specified Hours.
 K—Licensed for facsimile.
 L—Limited time.
 M—Mutual Network.
 N—National "Red" and "Blue" Networks.
 O—RHC-Canada Azul (Cuban Network)
 P—Has Construction Permit only.

Q—Station not in use.
 R—National "Red" Network.
 S—Synchronized.
 Sx—Indicates a "Booster" (or amplifier, or satellite) station working with a larger station. The main station is indicated by S.
 X—Has Permit to change power.
 Y—Has Permit to change location.
 Z—Has Permit to change frequency.
 a-b-c—Small letters show stations using same transmitter.

1-2-3—Figures denote stations sharing time.
 ?—Reported but not officially confirmed.
 ...—No information.
Fourth Column Symbols
 a—Verifies for return postage.
 b—Verifies only occasionally.
 d—Verifies for government postal card.
 e—Verifies free.
 i—Verifies for 10 cents.
 g—Card for postage; verify stamp for 10c.
 z—No information available.

540 kcs. (552.2 m.)

CBK F 50000

[]
 a Watrous, Sask., Canadian Brdctg. Corp.

550 kcs. (545.1 m.)

CFNB F 1000
 CMV 2500
 KFYP N 5000
 KOAC 1000(5)
 KOY C 1000
 KSD R 1000(5)
 K TSA C 1000(5)
 WDEV D 1000
 WGR CM 1000(5)
 WKRC M 1000(5)
 WSWA D 1000
 NERZ 250

[]
 a Fredericton, N. B., James S. Neill & Sons, Ltd.
 a Havana, Cuba, Troncoso y Gil
 a Bismarck, N. Dak., Meyer Brdctg. Co.
 a Corvallis, Ore., State Agricultural College
 g Phoenix, Ariz., Salt River Valley Brdctg. Co.
 a St. Louis, Mo., Pulitzer Pub. Co.
 a San Antonio, Tex., Sunshine Brdctg. Co.
 a Waterbury, Vt., Radio Station WDEV
 a Buffalo, N. Y., Buffalo Brdctg. Corp.
 a Cincinnati, Ohio, Cincinnati Times-Star Co.
 a Harrisonburg, Va., Shenandoah Valley Brdctg. Corp.
 z Leon, Gto.

560 kcs. (535.4 m.)

CJKL F 1000
 CMKM 250
 KFDN N 1000
 KLZ C 5000
 KSFO C 1000(5)
 KWTO D 5000
 WFIL BM 1000
 WGAN C 5000
 WIND 5000
 WIS N 5000
 WOAM C 1000
 XEOF 1000

[]
 a Kirkland Lake, Ont., Northern Brdctg. Co. Ltd.
 a Manzanillo, Cuba, Raimudo Comas Soler.
 a Beaumont, Tex., Beaumont Brdctg. Corp.
 a Denver, Colo., KLZ Brdctg. Co.
 a San Francisco, Calif., Associated Broadcasters, Inc.
 a Springfield, Mo., Ozarks Brdctg. Co.
 a Philadelphia, Pa., Wfil Brdctg. Co.
 a Portland, Me., Portland Brdctg. System, Inc.
 a Gary, Ind., Johnson-Kennedy Radio Corp.
 a Columbia, S. C., Liberty Life Ins. Co.
 a Miami, Fla., Miami Brdctg. Co.
 a Mexico City, D. F.

570 kcs. (526 m.)

CMHI O 10000
 KGKO N 5000
 KMTR 1000
 KUTA N 1000
 KVI C 5000
 WKBN CG2 500
 WMMAM D 250
 WMCA 1000(5)
 WNAX C 5000
 WOSU G2 1000
 WSYR B 1000
 WWNC C 1000

[]
 a Santa Clara, Cuba, RHC Cadena Azul
 a Fort Worth, Tex., KGKO Brdctg. Co.
 a Los Angeles, Calif., KMTR Radio Corp.
 a Salt Lake City Utah, Utah Brdctg. Co.
 a Tacoma, Wash., Puget Sound Brdctg. Co., Inc.
 a Youngstown, Ohio, WKBN Brdctg. Corp.
 z Marinette, Wis., M and M Brdctg. Co.
 a New York, N. Y., Knickerbocker Brdctg Co., Inc.
 a Yankton, S. Dak., WNAX Brdctg. Co.
 a Columbus, Ohio, Ohio State University
 a Syracuse, N. Y., Central New York Brdctg. Corp.
 a Asheville, N. C., Asheville Citizen-Times Co., Inc.

BROADCASTING STATIONS BY FREQUENCIES

580 kcs. (516.9 m.)

CKCL	F	1000
CKPR	F	1000
CKUA	F	1000
KMJ	EN	5000
KSAC	2	500(1)
WCHS	C	5000
WDBO	C	5000
WIBW	C2	5000
WILL	D	5000
WTAG	R	1000(5)
NEMU	....	250

a	Toronto, Ont., Dominion Battery Co., Ltd.
a	Port Arthur, Ont., Dougall Motor Car Co., Ltd.
b	Edmonton, Alta., University of Alberta.
a	Fresno, Calif., McClatchey Brcdstg. Co.
a	Manhattan, Kans., State College of Agriculture
a	Charleston, W. Va., Charleston Brcdstg. Co.
a	Orlando, Fla., Orlando Brcdstg. Co.
a	Topeka, Kans., Topeka Brcdstg. Assn., Inc.
a	Urbana, Ill., University of Illinois.
a	Worcester, Mass., Worcester Telegram Pub. Co., Inc.
z	Piedras Negras, Coah., Radio Difusora de Piedras Negras.

590 kcs. (508.2 m.)

CMCY	O	15000
KGMB	CM	5000
KHO	ER	5000
WEEI	C	5000
WKZO	B	1000
WMBS	C	1000
WOW	R	5000
NEPH	....	5000
YV5RI	B	1000

a	Havana, Cuba, RHC-Cadena Azul.
a	Honolulu, T. H., Hawaiian Brcdstg. System, Ltd.
a	Spokane, Wash., Louis Wasmer, Inc.
a	Boston, Mass., CBS, Inc.
a	Kalamazoo, Mich., WKZO, Inc.
a	Uniontown, Pa., Fasette Brcdstg. Corp.
a	Omaha, Nebr., Woodmen of the World.
z	Mexico City, D. F.
z	Caracas, Venezuela, Suegarty y Cia.

600 kcs. (499.7 m.)

CFCF	BF	500
CFQC	F	1000
CJOR	....	1000
CMKV	O	1000
FOJ	609	250
KFSD	B	5000
KROD	C	500(1)
TIGPH	605	1000
WCAO	C	500(1)
WCC	BM	500(1)
WMT	BM	5000
WREC	C	5000
WJSJ	MN	1000
XEOH	....	1000
XESF	....	250
XEZ	....	2000

a	Montreal, P. Q., Canadian Marconi Co.
a	Saskatoon, Sask., A. A. Murphy & Sons, Ltd.
a	Vancouver, B. C., CJOR, Ltd.
a	Holguin, Cuba, RHC-Cadena Azul.
a	St. Pierre, Miquelon, G. Salomon.
a	San Diego, Calif., Airfan Radio Corp., Ltd.
a	El Paso, Tex., Dorrence D. Roderick.
a	San Jose, Costa Rica, Gonzalo Pinto H.
a	Baltimore, Md., Monumental Radio Co.
f	Bridgeport, Conn., The Yankee Net work, Inc.
a	Cedar Rapids, Iowa, Iowa Brcdstg. Co.
a	Memphis, Tenn., WREC Brcdstg. Service.
a	Winston-Salem, N. C., Piedmont Pub. Co.
z	Torreón, Coah.
z	Morelia, Micho.
z	Merida, Yuc., Jorge L. Palomeque.

610 kcs. (491.5 m.)

CHNC	F	1000
CIAT	F	1000
KEAR	....	1000
KFCR	M	5000
WCLE	DM	500
WDAF	R	5000
WIOD	N	5000
WIP	....	5000
WMUR	P	1000(5)
NEBX	....	500
XERI	....	600

a	New Carlisle, P. Q., Caspesian Radio Co., Ltd.
a	Trail, B. C., Kootenay Brcdstg. Co., Ltd.
z	Fairbanks, Alaska, Midnight Sun Brcdstg. Co.
b	San Francisco, Calif., Don Lee Brcdstg. System.
a	Cleveland, Ohio, United Brcdstg. Co.
a	Kansas City, Mo., Kansas City Star Co.
a	Miami, Fla., Isle of Dreams Brcdstg. Corp.
a	Philadelphia, Pa., Pa. Brcdstg. Co.
z	Manchester, N. H., Radio Voice of N. H., Inc.
z	Sabinas, Coah., Benito Garza Orregon.
z	Mazatlan, Sin., Oscar Perez E

620 kcs. (483.6 m.)

CKCK	F	1000
CKIK	....	250
KGW	ER	5000
KTAR	EN	5000
KWFT	C	1000(5)
TIPG	625	5000
WAGE	P	1000
WHJB	D	250
WKAO	C	5000
WLBZ	MN	500(1)
WROL	N	500(1)
WSUN	N	5000
WTMI	N	5000
XENK	....	5000

a	Regina, Sask., Leader-Post, Ltd.
a	Camaguey, Cuba, Jones, Castrillon y Cia.
a	Portland, Ore., Oregonian Pub. Co.
a	Phoenix, Ariz., KTAR Brcdstg. Co.
a	Wichita Falls, Tex., Wichita Brcdstg. Co.
b	San Jose, Costa Rica, Claudia Hartinos.
z	Salina, N. Y., Sentinel Brcdstg. Corp.
a	Greensburg, Pa., Pittsburgh Radio Supply House.
a	San Juan, Puerto Rico, Radio Corp. of Puerto Rico.
a	Bangor, Maine, Maine Brcdstg. Co.
a	Knoxville, Tenn., Stuart Brcdstg. Corp.
a	St. Petersburg, Fla., City of S. P.
a	Milwaukee, Wis., The Journal Co.
z	Mexico City, D. F.

630 kcs. (475.9 m.)

CFCO	F	100
CFCY	F	1000

a	Chatham, Ont., John Beardall.
a	Charlottetown, P. E. I., Island Radio Brcdstg. Corp., Ltd.

BROADCASTING STATIONS BY FREQUENCIES

CJRC	F	1000
CKOV	F	1000
CMZ	.....	5000
KGFX	D	200
KOH	N	1000
KVOD	B	1000
KXOK	.....	5000
WMAL	B	5000
WPRO	C	5000
XEFB	.....	500
YVKA	.....	.....

- a Winnipeg, Man., Transcanada Communications, Ltd.
- a Kelowna, B. C., Okanagan Broadcasters, Ltd.
- z Havan, Cuba, Constitutional Army.
- a Pierre, S. Dak., Dana McNeil Estate.
- a Reno, Nev., The Bee, Inc.
- a Denver, Colo., Colorado Radio Corp.
- a St. Louis, Mo., StarTimes Pub. Co.
- a Washington, D. C., NBC, Inc.
- a Providence, R. I., Cherry & Webb Brdcastg. Co.
- a Monterrey, N. L., Jesus Quintanilla.
- z Caracas, Venezuela.

640 kcs. (468.5 m.)

HOK	.....	.....
KFI	R	50000
VONF	.....	12500
WHKC	LM	500
WOI	D	5000
YSS	.....	500

-
- z Colon, Panama.
 - f Los Angeles, Calif., Earle C. Anthony, Inc.
 - a St. John's NFLD., Brdcastg. Corp of NFLD.
 - a Columbus, Ohio, United Brdcastg. Corp.
 - a Ames, Iowa, Iowa State College of Agriculture.
 - a San Salvador, El Salvador.

650 kcs. (461.3 m.)

WSM	N	50000
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-
- a Nashville, Tenn., National Life & Accident Ins. Co.

660 kcs. (454.3 m.)

KOWH	BD	500
WEAF	R	50000
XEBZ	.....	500
YNPH	.....	600

-
- a Omaha, Nebr., World Pub. Co.
 - a New York, N. Y., NBC.
 - a Mexico City, D. F., Refugio Esperza Vda.
 - z Managua, Nicaragua.

670 kcs. (447.5 m.)

WMAQ	R	50000
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-
- c Chicago, Ill. NBC, Inc.

680 kcs. (440.9 m.)

KFEQ	L	500(2.5)
KPO	R	50000
VAS	685	2000
WLAW	5000
WPTF	N	50000
XED	.....	1000

-
- a St. Joseph, Mo., KFEQ, Inc.
 - a San Francisco, Calif., NBC, Inc.
 - f Glace Bay, N. S., Canadian Marconi Co., Ltd.
 - a Lawrence, Mass., Hildreth & Rogers Co.
 - a Raleigh, N. C., WPTF Radio Co.
 - e Guadalajara, Jal., Cia. Radiofonografica.

690 kcs. (434.5 m.)

CBF	NN	50000
CMQ	N	15000(25)
KGGF	GM2	1000
TIGH	.....	1000
WNAD	G2	1000
NEAC	.....	5000
XEN	.....	5000

-
- a Montreal, P. Q., CBC.
 - a Havana, Cuba, Cambo y Gabriel.
 - a Coffeyville, Kans., Hugh J. Powell.
 - b San Jose, Costa Rica, Gonzalo Garcia.
 - a Norman, Okla., University of Oklahoma.
 - a Tijuana, B. Cfa., Jorge I. Rivera.
 - a Mexico City, D. F., Radio Mundial.

700 kcs. (428.3 m.)

VOWR	.....	500
WLW	KN	50000
W8XO	Exp	500000

-
- c St. John's, Nfld., Wesley United Church.
 - a Cincinnati, Ohio, Crosley Corp.
 - a Cincinnati, Ohio, Crosley Corp.

710 kcs. (422.3 m.)

KIRO	C	50000
KMPC	C	5000
WOR	KM	50000

-
- a Seattle, Wash., Queen City Brdcastg. Co.
 - a Beverly Hills, Calif., KMPC, Statoin of the Stars, Inc.
 - a New York, N. Y., Bamberger Brdcastg. Service.

720 kcs. (416.4 m.)

T4NRH	725	750
WGN	KM	50000
YV5RH	.....	.....

-
- f Heredia, Costa Rica, Amando Cespedes Marin.
 - b Chicago, Ill., WGN, Inc.
 - z Caracas, Venezuela.

730 kcs. (410.7 m.)

CKAC	C	5000
XEDP	.....	150000

-
- a Montreal, P. Q., La Presse Pub. Co., Ltd.
 - a Mexico City, D. F., Depto. de Publicidad y Propaganda.

BROADCASTING STATIONS BY FREQUENCIES

740 kcs. (405.2 m.)

CBL	F	50000
CMJN	O	1000
CMK	...	250
KQW	M	5000

-
- a Toronto, Ont., CBC.
 - a Camaguey, Cuba, RHC-Cadena Azul.
 - a Havana, Cuba, Radiodifusion O'Shea.
 - a San Jose, Calif., Pacific Agricultural Foundation, Ltd.

750 kcs. (399.8 m.)

KMMJ	L	1000
TING	...	375
WHBR	Y	1000
WSR	R	50000

-
- a Grand Island, Nebr., KMMJ, Inc.
 - z San Jose, Costa Rica, Narcisco Garcia.
 - a Portsmouth, N. H., Granite State Brdcastg. Corp.
 - a Atlanta, Ga., Atlanta Journal Co.

760 kcs. (394.5 m.)

KGU	LN	2500
WJR	C	50000

-
- a Honolulu, Hawaii, Advertiser Pub. Co., Ltd.
 - c Detroit, Mich., WJR, The Goodwill Station.

770 Kcs. (389.4 m.)

KXA	L	1000
WCAL	2D	5000
WEW	D	1000
WJZ	B	50000
WLB	2D	5000

-
- a Seattle, Wash., American Radio Telephone Co.
 - a Northfield, Minn., St. Olaf College.
 - a St. Louis, Mo., St. Louis University.
 - a New York, N. Y., NBC, Inc.
 - a Minneapolis, Minn., University of Minn.

780 kcs. (384.4 m.)

KFAB	EXZ	10000
WBMM	CS	50000

-
- a Lincoln, Nebr., Central States Brdcastg. System.
 - a Chicago, Ill., Columbia Brdcastg. System.

790 kcs. (379.5 m.)

CKSO	F	1000
CMBC	...	1000(5)
KECA	...	5000
KFDY	D	1000
KFQD	G	250
KGHL	N	5000
WEAN	BM	5000
WMC	R	1000(5)
WPIC	D	1000
WPRA	...	1000(2.5)
WTAR	N	5000
XELJ	...	500
XERC	...	1000
YV5RB	B	2000
ZNS	...	1000

-
- a Sudbury, Ont., Sudbury Star.
 - a Havana, Cuba, El Progreso Cubano.
 - a Los Angeles, Calif., Earle C. Anthony, Inc.
 - a Brookings, S. Dak., S. Dak. State College.
 - c Anchorage, Alaska, Anchorage Radio Club, Inc.
 - a Billings, Mont., Northwestern Auto Sup. Co., Inc.
 - a Providence, R. I., The Yankee Network, Inc.
 - a Memphis, Tenn., Memphis Commercial Appeal Co.
 - a Sharon, Pa., Sharon Herald Brdcastg. Co.
 - a Mavaugez, P. R., P. R. Advertising Co., Inc.
 - g Norfolk, Va., WTAR Radio Corp.
 - z Nuevo Laredo, Tams.
 - z Mexico City, D. F., Carlos Dragome Narro.
 - b Caracas, Venezuela, Degwitz & Siblitz.
 - d Nassau, Bahams, Supt. of Telegraphs.

800 kcs. (374.8 m.)

CKLW	FM	5000
....	P	1000
....	P	150000

-
- a Windsor, Ont., Western Ont. Brdcastg. Co.
 - z Holguin, Cuba.
 - z Nogales, Son.

810 kcs. (370.2 m.)

CMHQ	....	5000
KGO	B	10000
KOAM	N	1000
WGY	R	50000
NEFW	....	50000

-
- a Santa Clara, Cuba, T. Rio Leon.
 - a San Francisco, Calif., NBC.
 - a Pittsburg, Kans., Pittsburg Brdcastg. Co., Inc.
 - a Schenectady, N. Y., Gen. Electric Co.
 - a Tampico, Tams., Flores y Martinez.

820 kcs. (365.6 m.)

WBAP	ENa	50000
WFPA	ENa	50000
WTBO	E	250

-
- a Fort Worth, Tex., Carter Publications, Inc.
 - a Dallas, Tex., A. H. Belo Corp.
 - a Cumberland, Md., Associated Brdcastg. Corp.

830 kcs. (361.2 m.)

CMAK	D	250
TIEP	....	3000
WCCO	C	50000
WNYC	L	1000
XELA	....	1000

-
- a Artemisa, Cuba.
 - a San Jose, Costa Rica, Eduardo Pinto H.
 - g Minneapolis, Minn., Columbia Brdcastg. Sys.
 - a New York, N. Y., Municipal Brdcastg. Sys.
 - z Mexico City, D. F., Radio Metropolitana.

BROADCASTING STATIONS BY FREQUENCIES

840 kcs. (356.9 m.)

VOGY	....	400
WHAS	C	5000

a	St. John's, Nfld., Nfld. Hotel.
a	Louisville, Ky., Courier-Journal and Louisville Times Co.

850 kcs. (352.7 m.)

KFUO	L	5000
KOA	R	50000
WEEU	DN	1000
WHDI	L	1000
WRUF	L	5000

a	Clayton, Mo., Evangelical Luthern Synod of Mo.
a	Denver, Colo., NBC, Inc.
a	Reading, Pa., Berks Brdcastg. Co.
a	Boston, Mass., Marheson Radio Co., Inc.
a	Gainesville, Fla., University of Fla.

860 kcs. (348.6 m.)

CFRB	C	10000
CMBL	...	5000
KTRB	D	250
XEMO	....	5000
XENX	....	5000

a	Toronto, Ont., Rogers Radio Brdcastg. Co., Ltd.
a	Havana, Cuba, Radio Cadena Suoritos.
a	Modesto, Calif., KTRB Brdcastg. Co., Inc.
a	Tijuana, B. Cfa., Fernando Federico Ferreira.
z	Mexico City, D. F., Univ. Nacional de Mexico.

870 kcs. (344.6 m.)

KIEV	D	250
WHCU	CL	1000
WKAR	D	5000
WWL	C	5000

a	Glendale, Calif., Cannon Sys. Ltd.
a	Ithaca, N. Y., Cornell University.
a	E. Lansing, Mich., Mich. State College.
a	New Orleans, La., Loyola University.

880 kcs. (340.7 m.)

WABC	C	50000
WHB	DM	1000

a	New York, N. Y., Columbia Brdcastg. Sys.
a	Kansas City, Mo., WHB Brdcastg. Co.

890 kcs. (336.9 m.)

WENR	Ba	50000
WLS	Ba	50000

c	Chicago, Ill., NBC, Inc.
a	Chicago, Ill., Agricultural Brdcastg. Co.

900 kcs. (333.1 m.)

CHML	F	1000
CJBR	F	1000
CKBL	F	1000
CMKS	....	250
NEW	....	100000

a	Hamilton, Ont., Maple Leaf Radio Co., Ltd.
a	Rimouski, P. Q., J. A. Brilliant.
a	Prince Albert, Sask., Prince Albert Radio Corp.
a	Guantanamo, Cuba, Candido Savon Suarez.
a	Mexico City, D. F., CadenaRadiodifusora Mex.

910 kcs. (329.6 m.)

CBO	F	1000
CGJC	F	1000
CMCF	E	5000
KFKA	M2	1000
KLN	....	1000
KPOF	2	1000
KVAN	D	250
KRRV	M	1000
WCOG	C	1000
WDFD	B	1000
WGRI	C3	500(1)
WTHL	....	1000
WQAN	3	500(1)
WRNL	B	1000
WSUI	....	1000(5)
XEAO	....	250

a	Ottawa, Ont., CBC.
a	Kamaloops, B. C., Kamaloops Sentinal Ltd.
a	Havana, Cuba, Cadena Azul.
a	Greeley, Colo., Mid-Western Radio Corp.
a	Oakland, Calif., Tribune Bldg. Co.
a	Denver, Colo., Pillar of Fire.
z	Vancouver, Wash., Vancouver Radio Corp.
a	Sherman, Tex., Red River Valley Brdcastg. Corp.
a	Meridian, Miss., Miss. Brdcastg. Co., Inc.
a	Flint, Mich., Flint Brdcastg. Co.
f	Scranton, Pa., Scranton Broadcasters, Inc.
a	Johnson City, Tenn., WJHL, Inc.
a	Scranton, Pa., Scranton Times.
a	Richmond, Va., Richmond Radio Corp.
a	Iowa City, Iowa, State University of Iowa.
a	Mexicali, B. Cfa., Chavez y Castro Sucs.

920 kcs. (325.9 m.)

CMJL	....	5000
KARK	N	5000
KFNK	2	500(1)
KFPY	C	5000
KTKC	M	1000
KUSD	2	500
WBAA	....	1000(5)
WGST	C	1000(5)
WJAR	R	5000
WMMN	C	5000
XEBH	....	1000
XEMJ	....	200

z	Camaguey, Cuba, Gaspar Estevez P.
a	Little Rock, Ark., Ark. Radio & Equipment Co.
a	Shenandoah, Iowa, KFNF, Inc.
a	Spokane, Wash., Symons Brdcastg. Co.
f	Visalia, Calif., Tulare-Kings Counties Radio Associates.
a	Vermillion, S. Dak., University of S. Dak.
a	W. Lafayette, Ind., Purdue University.
a	Atlanta, Ga., Georgia School of Tech.
a	Providence, R. I., Outlet Co.
a	Fairmont, W. Va., Monongahela Valley Brdcastg. Co.
a	Hermosillo, Son., Carlos Balderrama.
z	Nueva Rosita, Coah.

BROADCASTING STATIONS BY FREQUENCIES

930 kcs. (322.4 m.)

CJCA	F	1000	a	Edmonton, Alta., North Western Publishers, Ltd.
CMKN	O	1000	a	Santiago de Cuba, RHC Cadena Azul.
KGBU	.....	500	a	Ketchikan, Alas., Alaska Radio & Service Co., Inc.
KHJ	BMS	5000	a	Los Angeles, Calif., Don Lee Brdcastg. Sys.
KSFI	N	250(1)	a	Pocatello, Idaho, Radio Service Corp.
WBEN	R	5000	a	Buffalo, N. Y., WBFN, Inc.
WFMD	.....	500	a	Frederick, Md., The Monocacy Brdcastg. Co.
WJAX	N	1000(5)	a	Jacksonville, Fla., City of Jacksonville.
WKY	N	5000	a	Oklahoma City, Okla., WKY Radiophone Co.
WLBL	D	5000	a	Stevens Point, Wis., State of Wis.
WPAT	DP	1000	z	Paterson, N. J., North Jersey Brdcastg. Co., Inc.
WSAZ	.....	1000	a	Huntington, W. Va., WSAZ, Inc.
WTAD	C	1000	a	Quincy, Ill., Ill. Brdcastg. Corp.

940 kcs. (319 m.)

CBM	FR	5000	a	Montreal, P. Q., CBC.
WMAZ	C	5000	a	Macon, Ga., Southeastern Brdcast. Co., Inc.
NEQ	.....	5000	a	Mexico City, D. F., Radio Panamericana.

950 kcs. (315.6 m.)

CMBZ	.....	1000(5)	a	Havana, Cuba, Radio Salas.
HIX	.....	1000	a	Ciudad Trujillo, D. R., J. R. Salodin.
KFEL	M	5000	a	Denver, Colo., Eugene P. O'Fallon.
KOMO	ER	5000	a	Seattle, Wash., Fishers Blend Station, Inc.
KPRC	ER	5000	a	Houston, Tex., Houston Printing Corp.
WAAF	D	1000	a	Chicago, Ill., Drivers Journal Pub. Co.
WORL	D	1000	a	Boston, Mass., Brdcastg. Serv. Organization, Inc.
WPEN	N	5000	a	Philadelphia, Pa., Wm. Penn Brdcastg. Co.
WSPA	C	1000(5)	a	Spartanburg, S. C., Spartanburg Adv. Co.
WVJ	R	5000	a	Detroit, Mich., Evening News Ass'n.
XEGM	.....	1000(2.5)	z	Tijuana, B. Cfa.

960 kcs. (312.3 m.)

CFAC	F	1000	a	Calgary, Alta., South Western Pub., Ltd.
CHNS	F	1000	a	Halifax, N. S., Maritime Brdcastg. Co., Ltd.
CMHN	E	1000	a	Santa Clara, Cuba, Cadena Radio Habana.
KMA	B	1000(5)	a	Shenandoah, Iowa, May Brdcastg. Co.
KROW	.....	1000	a	Oakland, Calif., Educational Brdcastg. Corp.
WBRC	R	5000	a	Birmingham, Ala., Birmingham Brdcastg. Co., Inc.
WDBI	C	5000	a	Roanoke, Va., Times World Corp.
WELI	.....	1000	a	New Haven, Conn., City Brdcastg. Corp.
WSBT	C	500	a	South Bend, Ind., South Bend Tribune.
XEFE	.....	1000	z	Nuevo Laredo, Tam., Rafael T. Carranza.
XEHK	.....	250	z	Guadalajara, Jal.
XECT	.....	500	z	Hermosillo, Son.
XEU	.....	500	a	Veracruz, Ver. C., Fernando Pazos S.
YV5RA	.....	5000	b	Caracas, Venezuela, Aliancan Americano.

970 kcs. (309.1 m.)

CMKU	E	5000	a	Santiago de Cuba, Cadena Radio Habana.
KOIN	C	5000	a	Portland, Ore., KOIN, Inc.
WAAT	.....	1000	a	Jersey City, N. J., Bremer Brdcastg. Corp.
WAVE	N	5000	a	Louisville, Ky., WAVE, Inc.
WCSH	R	5000	a	Portland, Maine, Congress Square Hotel Co.
WDAY	N	5000	a	Fargo, N. Dak., WDAY, Inc.
WFLA	P	1000(5)	z	Tampa, Fla., The Tribune Co.
WHA	D	5000	a	Madison, Wis., University of Wis.
WICA	D	1000	a	Ashtabula, Ohio, WICA, Inc.
XEI	.....	5000	a	Iuarez, Chih., Pedro Menesez, Jr.
XEK	.....	500	a	Mexico City, D. F., Arturo Martinez.
XEO	.....	750	z	Matamoros, Tam.

980 kcs. (306 m.)

CBV	F	1000	a	Quebec, P. Q., CBC.
CFRN	F	1000	a	Regina, Sask., Transcanada Comm. Ltd.
CKWN	F	1000	a	Vancouver, B. C., Western Brdcastg. Co., Ltd.
CMCK	.....	5000	a	Havana, Cuba, Lius Casas R.
KFWB	E	5000	a	Los Angeles, Calif., Warner Bros. Brdcastg. Corp.
KMBC	C	5000	a	Kansas City, Mo., Midland Brdcastg. Co.
WHAL	DP	500	z	Saginaw, Mich., Gross and Shields.
WRC	R	5000	z	Washington, D. C., NBC, Inc.
WTRY	D	1000	a	Troy, N. Y., Troy Brdcastg.
XEFO	.....	500	z	Cananea, Son., Pedro L. Diaz.
XEXT	.....	1000	a	Tepec, Nayar., Gobierno del Estado de Nayarit.
YV2RB	.....	500	b	San Cristobal, Ven., J. M. Diaz Gongalez

BROADCASTING STATIONS BY FREQUENCIES

990 kcs. (302.8 m.)

CKY	F	15000
CMHT	.....	250
WIRG	D	1000
WNON	C	1000(5)
XECL	.....	5000
XET	.....	5000

- a []
- a Winnipeg, Man., Man. Telephone Sys.
- a Trinidad, Cuba, Fernando E. Sato del Valle.
- a Glenside, Pa., Seaboard Radio Brdcastg. Corp.
- a Knoxville, Tenn., Scripps-Howard Radio, Inc.
- z Mexicali, B. Cfa., Alfonso A. Lacarra.
- a Monterrey, N. L., El Pregonero del Norte.

1000 kcs. (299.8 m.)

CMKW	.....	1000
KJR	B	10000
WCFL	N	10000
WIKS	L	1000
XEPX	.....	10000

- a []
- a Santiago de Cuba, Clauddio Alvarez Soriano.
- a Seattle, Wash., Fishers Blend Station, Inc.
- a Chicago, Ill., Chicago Federation of Labor.
- a New York, N. Y., Hearst Radio, Inc.
- z Mexico City, D. F.

1010 kcs. (296.9 m.)

CRY	F	1000
CFCN	F	10000
CMX	.....	10000
XEBG	.....	500
XEON	.....	500
YV5RG	.....	1000

- a []
- a Toronto, Ont., CBC.
- a Calgary, Alta., Voice of the Prairies, Ltd.
- a Havana, Cuba, Casa Lavin.
- a Tijuana, B. Cfa., Angel B. Fernandez
- z Nogales, Son.
- b Caracas, Venez., Gonzalo Veloz Maucero.

1020 kcs. (293.9 m.)

KDKA	B	50000
KFVD	D	1000

- b []
- b Pittsburgh, Pa., Westinghouse Radio Stations, Inc.
- a Los Angeles, Calif., Standard Brdcastg. Co.

1030 kcs. (291.1 m.)

KOB	N	50000
WBZ	BS	50000
WBZA	BS	1000

- a []
- a Albuquerque, N. Mex., Albuquerque Brdcastg. Co.
- a Boston, Mass., Westinghouse Radio Stations, Inc.
- a Springfield, Mass., Westinghouse Radio Sta. Inc.

1040 kcs. (288.3 m.)

WHO	R	50000
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- a []
- a Des Moines, Iowa, Central Brdcastg. Co.

1050 kcs. (285.5 m.)

CMKG	250
WDZ	D	1000
WHN	50000
XEG	.....	150000
YV5RZ	.....	500

- z []
- z Santiago, Cuba, Emilio Grau Medina
- a Tuscola, Ill., WDZ Brdcastg. Co.
- z New York, N. Y., Marcus Loew Booking Agency
- z Monterrey, N. L.
- z La Guaira, Venezuela, "Emisora Vargas."

1060 kcs. (282.8 m.)

CMCM	.....	250
CMJA	.....	250
KYW	R	50000
XEST	.....	50000

- a []
- a Havana, Cuba., Transradio Columbia
- a Camaguey, Cuba, Rafael Valdes
- a Philadelphia, Pa., Westinghouse Radio Stations, Inc
- z Mexico City, D. F.

1070 kcs. (280.2 m.)

CBA	F	50000
KFBI	.....	1000(5)
KNX	C	50000
WAPI	C	50000
WEAU	L	1000(5)
WIBC	.....	1000(5)

- a []
- a Sackville, N. B., Canadian Brdcastg. Corp.
- a Wichita, Kans., Farmers & Bankers Brdcastg. Corp.
- a Los Angeles, Calif., Columbia Brdcastg. System, Inc.
- a Birmingham, Ala., Voice of Ala. Inc.
- a Eau Claire, Wis., Central Brdcastg. Co.
- a Indianapolis, Ind., Ind. Brdcastg. Corp.

1080 kcs. (277.6 m.)

HHK	.....	25000
KRLD	C	50000
KWJJ	L	500
KYOS	DM	250
WCAZ	D	250
WTIC	R	50000
YV5RE	.....	500

- z []
- z Leogane, Haiti
- a Dallas, Tex., KRLD Radio Corp.
- a Portland, Ore., KWJJ Broadcast Co., Inc.
- a Merced, Calif., Merced Brdcastg. Co.
- a Carthage, Ill., Superior Brdcastg. Service, Inc.
- a Hartford, Conn., Travelers Brdcastg. Service Corp.
- a Barcelona, Venez., "Ondas del Neveri."

1090 kcs. (275.1 m.)

CMKX	.....	250
HIN	.....	150
KTHS	N	50000
WBAL	BM	50000
WIAG	L	1000
XEHR	.....	250
XERB	.....	50000

- z []
- z Banes, Cuba, Oscar Vidal Benitez
- a Trujillo, D. R., J. M. Bonetti Burgos.
- a Hot Springs, Ark., Chamber of Commerce
- a Baltimore, Md., WBAL Brdcastg. Co.
- a Norfolk, Nebr., Norfolk Daily News
- a Puebla, Pue.
- a Rosarito, B. Cfa., (Box 508, San Diego, Calif.)

BROADCASTING STATIONS BY FREQUENCIES

1100 kcs. (272.6 m.)

KJBS	L	500
WTAM	R	50000

a	[]
a	San Francisco Calif., Julius Brunton & Sous Co.,
a	Cleveland, Ohio, NBC, Inc.

1110 kcs. (270.1 m.)

CMBY	D	250
WBT	C	50000
WCBD	L2	5000
WMBI	L2	5000
NEFO	....	20000

z	[]
a	Havana, Cuba, Av. de Menocal 159
a	Charlotte, N. C., CBS
a	Chicago, Ill., WCBD, Inc.
a	Chicago, Ill., Moody Bible Institute
a	Mexico City, D. F., Partido de la Revolucion Mex.

1120 kcs. (267.7 m.)

KMOX	C	50000
YVIRF	....	300

a	[]
a	St. Louis, Mo., CBS
z	Maracaibo, Venez., "Ondas del Lago."

1130 kcs. (265.3 m.)

CBR	F	5000
CMKH	....	250
EGDM	DM	1000
KVWK	C	50000
WCAR	D	1000
WDGY	M	1000(5)
WOV	....	10000

a	[]
a	Vancouver, B. C., Canadian Brdcastg. Corp.
z	Guantanamo, Cuba
f	Stockton, Calif., E. F. Peffer
a	Shreveport, La., International Brdcastg. Corp.
a	Pontiac, Mich., Pontiac Brdcastg. Co.
a	Minneapolis, Minn., Dr. Geo. W. Young
a	New York, N. Y., Greater N. Y. Brdcastg. Corp.

1140 kcs. (263 m.)

KSOO	LN	5000
WRVA	CM	50000
XENT	....	50000
XEON	....	2000

a	[]
a	Sioux Falls, S. Dak., S. F. Broadcast Ass'n.
a	Richmond, Va., Larus & Bros. Co., Inc.
a	Nuevo Laredo, Tam. Cia., Industrial Universal S. A.
a	Tijuana, B. Cfa.

1150 kcs. (260.7 m.)

CHST	F	1000
CKOC	F	500(1)
CKX	F	1000
CMBO	....	1000(5)
KFIO	D	100
KFSG	a	1000(2.5)
KRKD	a	1000(2.5)
KRSC	E	1000
KSAL	....	1000
KSWO	DP	250
KTRC	G	1000
WAO	N	1000(5)
WCOP	....	500
WDEL	R	5000
WISN	C	5000
WIBO	B	5000
WKPA	D	250
WTAW	G	1000
XETP	....	600
XEFS	....	500
YVIRD	....	250
YVARD	....	....

a	[]
a	St. John, N. B., N. B. Brdcastg. Co.
a	Hamilton, Ont., Wentworth Radio Brdcastg. Co., Ltd.
a	Brandon, Man., Man. Telephone Sys.
a	Havana, Cuba, Ideas Pazos
a	Spokane, Wash., Spokane Brdcastg. Corp.
a	Los Angeles, Calif., Echo Park Evangelistic Ass'n.
a	Los Angeles, Calif., Radio Broadcasters, Inc.
a	Seattle, Wash., Radio Sales Corp.
a	Salina, Kans., KSAL, Inc.
z	Lawton, Okla., W. Carver and B. Ross.
z	Austin, Texas
a	Chattanooga, Tenn., W. A. Patterson
a	Boston, Mass., Mass. Brdcastg. Corp.
a	Wilmington, Del.
a	Milwaukee, Wis., Hearst Radio, Inc.
a	Baton Rouge, La., B. R. Brdcastg. Co., Inc.
a	New Kensington, Pa., Alleghany-Kiski Brdcastg. Co.
a	College Station, Tex., Agricultural & Mech. College
z	Mexico City, D. F., Salvador Monterrubio
z	Cananea, Son.
z	Maracaibo Vegez., "Radiodifusora Maracaibo."
z	Maracay, Venez., "Radio Marconi."

1160 kcs. (285.5 m.)

KST	C	50000
WITD	L	20000
YV5RL	....	500

a	[]
a	Salt Lake City, Utah, Radio Serv. Corp.
a	Chicago, Ill., WJJD, Inc.
a	Caracas, Venez., "Radio Tropical."

1170 kcs. (256.3 m.)

KVOO	N	50000
WAVVA	C	50000
NECD	....	350

a	[]
a	Tulsa, Okla., Southwestern Sales Corp.
a	Wheeling, W. Va., W. V. Brdcastg. Corp.
z	Puebla, Pue., Ricardo Vazquez

1180 kcs. (254.1 m.)

WHAM	N	50000
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a	[]
a	Rochester, N. Y., Stromberg-Carlson Mfg. Co.

1190 kcs. (252 m.)

CMCU	250
KEX	B	50000
WOWO	B	50000
....	P	50000

a	[]
a	Havana, Cuba, Jorge Garcia Serra
a	Portland, Ore., Oregonian Pub. Co.
a	Fort Wayne, Ind., Westinghouse Radio Stations, Inc.
z	Sonora, Son.

1200 kcs. (249.9 m.)

TIRCC	....	500
WOAI	EN	50000

z	[]
z	San Jose, Costa Rica, Carlos Borge.
a	San Antonio, Tex., Southland Industries, Inc.

BROADCASTING STATIONS BY FREQUENCIES

1210 kcs. (247.8 m.)

WCAU C 50000

a Philadelphia, Pa., WCAU Brdcastg. Co.

1220 kcs. (245.8 m.)

CHAB F 1000
CMKO 250
TIGPH2 1225 1000
NER 100000

a Moose Jaw, Sask., CHAB, Ltd.
a Holguin, Cuba, Manuel Angola Farran
b San Jose, Costa Rica, "Nueva Alma Tica."
a Mexico City, D. F., El Buen Tono. S. A.

1230 kcs. (243.8 m.)

CFCH F 100
CHGB F 100
CICI F 100
CKNX 100
CKTB F 100
CKVD 100
CMCO 2 250
CMCW 2 250
CMJE 250
HHW 100
KADA EM 250
KAST 250
KBTM 250
KELO N 250
KFDA EM 250
KFJB 250
KFND 250
KFXJ 250
KGDE 250
KGEK 250
KGFI 250
KGHI 250
KHAS 250
KHBC CM 250
KMLB 250
KODL 250
KOOS M 250
KPHO P 250
KPOW P 250
KSTN E 250
KVCV M 250
KVEC M 250
KVAN 250
KVOS M 250
KWG RE 250
KWNO F 250
KYSM EN 250
WABI C 250
WATM C 250
WAJR 250
WAYX 250
WBRZ M 250
WBHP 250
WBLI 250
WBUC 250
WBOW N 250
WCAT 250
ACAX C 250
ACBT 250
VCED 2 250
VCLO 250
VCOT N 250
WCPO 250
WDLP 250
WDSM M 250
WFNY M 250
WFSS 250
WFTC 250
WGRB P 250
WHRC M 250
WHRY E 250
WHOP 250
WIRX C 250
WIL 250
WISE N 250
WITF P 250
WJRC 250

a North Bay, Ont., R. H. Thomson
a Ste. Anne de la Pocatiere, P. Q., G. Thos. Desjardins
a Calgary, Alta., Albertian Pub. Co.
a Wingham, Ont., Wingham Radio Club
a St. Catharines, Ont., E. T. Sandell
a Val d'Or, P. Q., La Voix d'Abitibi
a Havana, Cuba, Enrique Lasanta
a Havana, Cuba, J. Vilarino y Cia.
z Camaguey, Cuba, Maceo No. 27
z Port-au-Prince, Haiti
a Ada, Okla., C. C. Morris.
z Astoria, Ore., Astoria Brdcastg. Co.
a Jonesboro, Ark., Regional Brdcastg. Co.
a Sioux Falls, S. Dak., S. F. Broadcast Ass'n., Inc.
a Amarillo, Tex., Amarillo Brdcastg. Corp.
a Marshalltown Iowa, Marshall Elec. Co.,
a Nampa, Idaho, Frank E. Hurt
a Grand Junction, Colo., Western Slope Brdcastg. Co.
b Fergus Falls, Minn., Charles L. Jarek
f Sterling, Colo., Elmer G. Bechler
a Los Angeles, Calif., Ben S. McGlashan
a Little Rock, Ark., Ark. Brdcastg. Co.
a Hastings, Nebr., Nebr. Brdcastg. Co.
a Hilo, Hawaii, Hawaiian Brdcastg. Sys., Ltd.
a Monroe, La., Liner's Brdcastg. Station, Inc.
a The Dalles, Ore., Western Radio Corp.
a Marshallfield, Ore., KOOS, Inc.
z Phoenix, Ariz., M. C. Reese
z Powell, Wyo., Albert Joseph Meyer
a Lowell, Ariz., Copper Elec. Co., Inc.
a Redding, Calif., Golden Empire Brdcastg. Co.
a San Luis Obispo, Calif. Valley Elec. Co.
a Logan, Utah, Cache Valley Brdcastg. Co.
a Bellingham, Wash., KVOS, Inc.
a Stockton, Calif., McClatchey Brdcastg. Co.
a Winona, Minn., Winona Radio Serv.
a Mankato, Minn., Southern Minn. Supply Co.
a Bangor, Me., Community Brdcastg. Serv.
a Anderson, S. C., Wilton E. Hall.
a Morgantown, W. Va., W. Va. Radio Corp.
a Wavcross, Ga., Jack Williams
a Ponca City Okla., Adelaide L. Carrell
a Huntsville, Ala., Wilton Harvey Pollard
a Dalton, Ga., Dalton Brdcastg. Corp.
a Salisbury, Md., Peninsula Brdcastg. Co.
a Terra Haute, Ind., Banks of Wabash, Inc.
a Rapid City, S. Dak., S. Dak. State School of Mines
a Burlington, Vt., Bur. Daily News, Inc.
a Roanoke Rapids, N. C., J. Winfield Crew, Jr.
a DuBois, Pa., Tri-County Brdcastg. Co.
a Janesville, Wis., Gazette Printing Co.
a Columbus, Ohio, WCOL, Inc.
a Cincinnati, Ohio, Scripps-Howard Radio, Inc.
a Panama City, Fla., P. C. Brdcastg. Co.
a Superior, Wis., WDSM, Inc.
a Elmira, N. Y., Elmira Star-Gazette, Inc.
a Salem, Mass., North Shore Brdcastg. Co.
a Kinston, N. C., Jonas Weiland
z Grand Rapids, Mich., G. R. Brdcastg. Corp.
z Canton, Ohio, Ohio Brdcastg. Co.
a Appleton, Wis., WHBY, Inc.
a Hopkinsville, Ky., Paducah Brdcastg. Co., Inc.
a Utica, N. Y., WIBX, Inc.
a St. Louis, Mo., Mo. Broadcasting Corp.
a Asheville, N. C., Station WISE, Inc.
z Baltimore, Md., Md. Brdcastg. Co.
a Bloomington, Ill., Kaskaskia Brdcastg. Co.

BROADCASTING STATIONS BY FREQUENCIES

WJBW	....	250	a	New Orleans, La., Chas. C. Carlson
WJNO	....	250	a	W. Palm Beach, Fla., WJNO, Inc.
WJOB	....	250	a	Hammond, Ind., O. E. Richardson & F. L. Adair
WJRD	....	250	a	Tuscaloosa, Ala., James R. Doss, Jr.
WKBO	....	250	a	Harrisburg, Pa., Keystone Brdcastg. Corp.
WLOF	....	250	a	Orlando, Fla., Tazlewood, Inc.
WLOG	....	250	a	Logan, W. Va., C. H. Frey and R. O. Greever
WLVA	....	250	a	Lynchburg, Va., Lynchburg Brdcastg. Corp.
WMAV	....	250	a	Worcester, Mass., C. T. Sherer Co., Inc.
WMFR	....	250	a	High Point, N. C., Radio Station WMFR, Inc.
WMOB	....	250	a	Mobile, Ala., S. B. Quigley
WMPC	....	250	a	Lapeer, Mich., Liberty St. Gospel Church
WOLS	....	250	a	Florence, S. C., O. Lee Stone
WRLB	....	250	a	Columbus, Ga., Columbus Brdcastg. Co., Inc.
WSAM	....	250	a	Saginaw, Mich., Saginaw Brdcastg. Co.
WSKB	....	250	a	McComb, Miss., McComb Brdcastg. Corp.
WSOO	....	250	a	Sault Ste. Marie, Mich., Ihawathaland Brdcastg. Co.
WTHT	....	250	a	Hartford, Conn., Hartford Times, Inc.
WTOL	....	250	a	Toledo, Ohio, Community Brdcastg. Co.
YNOW	....	800	a	Managua, Nicaragua.

1240 kcs. (241.8 m.)

CBJ	....	100	a	Chicoutimi, P. Q., Canadian Brdcastg. Corp.
CFPR	....	50	a	Prince Rupert, B. C., Felix E. Batt
CHLT	....	100	a	Sherbrooke, P. Q., La Tribune, Ltd.
CJCS	....	50	a	Stratford, Ont., Frank M. Squires
CKCH	....	100	a	Hull, P. Q., CKCH Radio Brdcastg. Co. of Hull, Ltd.
CKMC	....	50	a	Cobalt, Ont., R. L. MacAdam
CKNB	....	100	a	Campbellton, N. B., Dr. Charles Houde
CMGF	....	250	a	Matanzas, uba, Bernabe R. de la Torre
KALB	....	250	a	Alexandria, L., Alex. Brdcastg. Co., Inc.
KANS	....	250	a	Wichita, Kans., KANS Brdcastg. Co.
KASA	....	250	a	Elk City, Okla., E. M. Woody
KAVE	....	250	a	Carlsbad, N. Mex., Carlsbad Brdcastg. Co.
KBIZ	....	250	a	Ottumwa, Iowa.
KDLR	....	250	a	Devils Lake, N. Dak., KDLR, Inc.
KDON	....	250	a	Monterey, Calif., Monterey Peninsula Brdcastg. Co.
KFOR	....	250	a	Lincoln, Neb., Cornbelt Brdcastg. Corp.
KFJI	....	250	a	Klamath Falls, Ore., KFJI Broadcasters, Inc.
KFXM	....	250	a	San Bernardino, Calif., Lee Bros. Brdcastg. Co.
KGBS	....	250	a	Harlingen, Tex., Harbenito Brdcastg. Co.
KGY	....	250	a	Olympia, Wash., KGY, Inc.
KHBB	....	250	a	Okmulgee, Okla., Okmulgee Brdcastg. Corp.
KIUL	....	250	a	Garden City, Kans., Garden City Brdcastg. Co.
KOCA	....	250	a	Kilgore, Tex., Oil Capital Brdcastg. Ass'n.
KOVQ	....	250	a	Provo, Utah, Citizens Voice and Ait Show.
KPFA	....	250	a	Helena, Mont., Peoples Forum of the Air.
KPPC	....	250	a	Pasadena, Calif., Pasadena Presb. Church.
KROY	....	250	a	Sacramento, Calif., Royal Miller.
KVSO	....	250	a	Ardmore, Okla., Ardmoreite Pub. Co., Inc.
KWAT	....	250	a	Watertown, S. Dak., Midland National Life Ins. Co.
KWIL	....	250	a	Albany, Ore., Central Willamette Brdcastg. Co.
KWJB	....	250	a	Globe, Ariz., Sims Brdcastg. Co.
KWLC	....	250	a	Decorah, Iowa, Luther College.
KXOX	....	250	a	Sweetwater, Tex., Sweetwater Radio, Inc.
KYUM	....	250	a	Yuma, Ariz., Yuma Brdcastg. Co.
WATN	....	250	a	Watertown, N. Y., Watertown Brdcastg. Corp.
WBAX	....	250	a	Wilkes-Barre, Pa., John H. Stenger, Jr.
WBBL	....	250	a	Richmond, Va., Grace Covenant Presb. Church.
WBRL	....	250	a	Knoxville, Tenn., J. W. Birdwell.
WBRT	....	250	a	Macon, Ga., Middle Georgia Brdcastg. Co.
WCOU	....	250	a	Red Bank, N. J., Monmouth Brdcastg. Co.
WCOV	....	250	a	Lewiston, Maine, Twin City Brdcastg. Co., Inc.
WCRW	....	250	a	Montgomery, Ala., Capital Brdcastg. Co., Inc.
WDEB	....	250	a	Chicago, Ill., Clinton R. White.
WEDC	....	250	a	Harrisburg, Ill., Harrisburg Brdcastg. Co.
WFAS	....	250	a	Chicago, Ill., Emil Denemark, Inc.
WFOY	....	250	a	White Plains, N. Y., Westchester Brdcastg. Corp.
WFTM	....	250	a	St. Augustine, Fla., Fountain of Youth Brdcastg. Co.
WGAC	....	250	a	Fort Myers, Fla., Ft. Myers Brdcastg. Co.
WGBB	....	250	a	Augusta, Ga., Twin States Brdcastg. Co.
WGCM	....	250	a	Freeport, N. Y., Harry H. Carman.
WGGA	....	250	a	Gulfport, Miss., WGCM, Inc.
WGRM	....	250	a	Gainesville, Ga., Gainesville Broadcasters.
WHAT	....	250	a	Greenwood, Miss., P. K. Ewing.
WHRU	....	250	a	Greenfield, Mass., John W. Haigis.
WHIZ	....	250	a	Anderson, Ind., Anderson Brdcastg. Corp.
WHBU	....	250	a	Zanesville, Ohio, WALR Brdcastg. Corp.
WINN	....	250	a	Poyvette, Wis., Wm. C. Forrest
			a	Louisville, Ky., Kentucky Brdcastg. Corp.

BROADCASTING STATIONS BY FREQUENCIES

WJBY	E	250	a	Gadsden, Ala., Gadsden Brdcastg. Co., Inc.
WTEJ	.....	250	a	Hagerstown, Md., Hagerstown Brdcastg. Co.
WJTM	B	250	z	Lansing, Mich., WJTM, Inc.
WJLS	.....	250	z	Beckley, W. Va., Joe L. Smith, Jr.
WJMC	.....	250	a	Rice Lake, Wis., Walter H. Mc Genty.
WJTN	.....	250	a	Jamestown, N. Y., James Brdcastg. Co., Inc.
WJW	M	250	a	Akron, Ohio, WJW, Inc.
WROK	.....	250	a	Sunbury, Pa., Sunbury Brdcastg. Corp.
WLAG	P	250	z	La Grange, Ga., La Grange Brdcastg. Co.
WLOK	.....	250	a	Lima, Ohio, Fort Industry Co.
WJFS	C	250	a	Hibbing, Minn., Head of the Lakes Brdcastg. Co.
WOCB	.....	250	a	Hyanis, Mass., Cape Cod Brdcastg. Co.
WQMT	.....	250	a	Manitowoc, Wis., Francis M. Kadow.
WPAN	.....	250	a	Thomasville, Ga., H. Wimpy.
WPID	5	250	a	Petersburg, Va., Petersburg Newspaper Corp.
WRAL	M	250	z	Raleigh, N. C., Capitol Brdcastg. Co.
WASY	M	250	a	Rochester, N. Y., Brown Radio Service.
WSBC	G3	250	a	Chicago, Ill., WSBC, Inc.
WSIX	M	250	a	Nashville, Ten., WSIX, Inc.
WSSN	.....	250	a	Bridgeton, N. J., Eastern States Brdcastg. Corp.
WSOC	MN	250	a	Charlotte, N. C., Radio Station WSOC, Inc.
WTAX	.....	250	a	Springfield, Ill., WTAX, Inc.

1250 kcs. (239.9 m.)

CMHO	.....	250	z	Santa Clara, Cuba.
CMKC	.....	250	a	Santiago de Cuba, Pinol Battle y Co.
KPKU	a	1000(5)	a	Lawrence, Kans., University of Kansas.
KPAC	.....	500	a	Port Arthur, Tex., Port Arthur Brdcastg. Co.
KTMS	BE	1000	a	Santa Barbara, Calif., News-Press Pub. Co.
KTW	6	1000	a	Seattle, Wash., First Presb. Church.
KWSC	6	5000	a	Pullman, Wash., State College of Wash.
WCAD	D	500	a	Canton, N. Y., St. Lawrence University.
WCAE	MR	5000	a	Pittsburgh, Pa., WCAE, Inc.
WDAE	D	5000	a	Tampa, Fla., Tampa Times Co.
WGNV	D	250	a	Newburgh, N. Y., WGNV Brdcastg. Co., Inc.
WREN	Ba	1000(5)	a	Lawrence, Kans., WREN Brdcastg. Co.
WTMA	N	1000	a	Charleston, S. C., Atlantic Coast Brdcastg. Co.
XEAT	.....	600	a	Parral, Chih., Box 90.
XEDK	.....	500	z	Guadalajara, Jal., Salvador Vasquez T.
XEH	.....	250	z	Monterrey, N. L., Mexico, Radio Tarneva.
XETF	.....	500	a	Veracruz, Ver. C., Jose Rodriguez Lopez.
YVIRK	.....	.....	a	Maracubo, Venezuela, Jose A. Higueria.

1260 kcs. (238 m.)

CFRN	F	1000	a	Edmonton, Alta., G. R. A. Rice.
CMBF	.....	5000	a	Havana, Cuba, Radio Emisora Nacional.
GBX	N	5000	a	Springfield, Mo., Springfield Brdcastg. Co.
KGGM	C	1000	a	Albuquerque, N. Mex., New Mexico Brdcastg. Co.
KYA	E	1000(5)	a	San Francisco, Calif., Hearst Radio, Inc.
WFBM	C	5000	a	Indianapolis, Ind., WFBM, Inc.
WNAC	R	5000	a	Boston, Mass., The Yankee Network, Inc.
WOT	M	1000	a	Washington, D. C., American Brdcastg. Co.
XEBL	.....	500	z	Mazatlan, Sin., Ignacio L. Laiz.
XEBM	.....	150	z	San Luis Potosi, S. L. P., Benjamin Briones.
XERP	.....	250	z	Torreón, Cosh.
XERU	.....	100	z	Chihuahua, Chih., Feliciano Lopez Islas.
XEDF	.....	250	a	Laredo, Tams.
XEDW	.....	250	a	Minatitlan, Ver. C., Hector Silva Canto.
XEL	.....	750	z	Mexico City, D. F.

1270 kcs. (236.1 m.)

CJCB	F	1000	a	Sydney, N. S., Eastern Broadcasters, Ltd.
CMJM	O	1000	a	Ciego de Avila, Cuba, RHC-Cadena Azul.
KFTZ	M	5000	a	Fort Worth, Tex., Tarrant Brdcastg. Co.
KGCU	.....	500(1)	a	Mandan, N. Dak., Mandan Radio Ass'n.
KTFI	N	1000	a	Twin Falls, Idaho, Radio Brdcastg. Corp.
WHBF	M	5000	a	Rock Island, Ill., Rock Island Brdcastg. Co.
WSPR	M	500	a	Springfield, Mass., WSPR, Inc.
WXYZ	B	5000	a	Detroit, Mich., King-Trendle Brdcastg. Corp.
XEBA	.....	250	z	Guzman, Jal., Javier Velasco.
XEBC	.....	100	z	Morelia, Micho.
XEDL	.....	500	a	Navajoa, Son.
XEDN	.....	250	z	Camargo, Chih.
XEFM	.....	100	z	Leon, Gto.
XEFV	.....	100	a	Ivarez, Chih., Dario Cordoba.
XEME	.....	500	a	Merida, Yuc., Perfecto Villamil Cisero.
XENH	.....	500	z	Oaxaca, Oax.
YV3RA	.....	.....	a	Barquisimeto, Venezuela.

BROADCASTING STATIONS BY FREQUENCIES

1280 kcs. (234.2 m.)

CMHA	.....	250	z	Sagua la Grande, Cuba, Abelardo Menocal.
KFOX	.....	1000	a	Long Beach, Calif., Nicholas & Warinner, Inc.
KIT	.....	1000	a	Yakima, Wash., Carl E. Haymond.
WDSU	.....	5000	a	New Orleans, La., WDSU, Inc.
WGBF	.....	1000(5)	a	Evansville, Ind., Evansville on the Air, Inc.
WHBI	.....	1000(2.5)	a	Newark, N. J., May Radio Brdcastg. Corp.
WKST	.....	1000	a	New Castle, Pa., WKST, Inc.
WMRO	.....	250	a	Aurora, Ill., Martin R. O'Brien.
WNEW	.....	5000	a	New York, N. Y., Wodaam Corp.
WTCN	.....	1000(5)	a	Minneapolis, Minn., Minnesota Brdcastg. Corp.
XEAG	.....	250	z	Cordoba, Ver. C., Diodoro Tuniga.
XEBW	.....	600	a	Chihuahua, Chih.
XEE	.....	100	a	Durango, Dgo., Alejandro Stevenson, Jr.
XELK	.....	100	a	Zacatecas, Zac.
XEOX	.....	250	a	Los Mochis, Sin.
XERL	.....	250	z	Colmia, Col., J. Roberto Levy.
XEX	.....	500	a	Monterrey, N. L., El Heraldo del Comercio.
XEXJ	.....	100	z	Tuxtla Gutierrez, Chis.

1290 kcs. (232.4 m.)

CMCH	.....	2	a	Havana, Cuba, Radio Popular.
CMCX	.....	2	z	Havana, Cuba, "La Onda Popular".
CMKD	.....	1000	a	Santiago de Cuba, Radioemisora Oriental.
KGVO	.....	1000	a	Missoula, Mont., Mosby's, Inc.
KHSL	.....	M	a	Chico, Calif., Golden Empire Brdcastg. Co.
KOIL	.....	EMC	a	Omaha, Nebr., Central States Brdcastg. Co.
KRGV	.....	N	a	Weslaco, Tex., KRGV, Inc.
KUOA	.....	D	a	Siloam Springs, Ark., KUOA, Inc.
KVOA	.....	EN	a	Tucson, Ariz., Arizona Brdcastg. Co., Inc.
WFVA	.....	D	z	Fredericksburg, Va., Fredericksburg Brdcastg. Corp.
WHIO	.....	C	a	Dayton, Ohio, Miami Valley Brdcastg. Corp.
WHLD	.....	D	a	Niagara Falls, N. Y., Niagara Falls Gazette Pub. Co.
WKNE	.....	CM	a	Keene, N. H., Twin States Brdcastg. Corp.
WTOC	.....	C	a	Savannah, Ga., Savannah Brdcastg. Co.
XEAP	.....	.....	z	Obergon, Son., Emilio Manzanilla.
XEDA	.....	1000	z	Mexico City, D. F., Pedro Piestra Diaz.

1300 kcs. (230.6 m.)

CMAN	.....	O	1000	a	Pinar del Rio, Cuba, RHC-Cadena Azul.
CMJF	.....	.....	250	z	Camaguey, Cuba, John L. Stowers.
KGLO	.....	C	1000	a	Mason City, Iowa, Mason City Globe Gazette Co.
KOL	.....	M	1000(5)	a	Seattle, Wash., Seattle Brdcastg. Co., Inc.
KVOR	.....	C	1000	a	Colorado Springs, Colo., Out West Brdcastg. Co.
WASH	.....	Na	5000	a	Grand Rapids, Mich., King-Trendle Brdcastg. Corp.
WFRB	.....	R	5000	a	Baltimore, Md., Baltimore Radio Show, Inc.
WIDX	.....	R	1000(5)	a	Jackson, Miss., Lamar Life Ins. Co.
WOOD	.....	Na	5000	a	Grand Rapids, Mich., King-Trendle Brdcastg. Corp.
WWNY	.....	DP	500	z	Watertown, N. Y., The Brockway Co.
XEGF	.....	.....	100	z	Culiacan, Sin.
XEP	.....	.....	500	a	Juarez, Chih., Estaban Perra.
XES	.....	.....	5000	a	Tampico, Tam., Fernando Sada.

1310 kcs. (228.9 m.)

CMGN	.....	O	1000	a	Jovellanos, Cuba, RHC-Cadena Azul.
KFBB	.....	C	5000	a	Great Falls, Mont., Buttrey Broadcast. Inc.
KHON	.....	P	250	a	Honolulu, Hawaii, Hawaiian Brdcastg. Sys. Ltd.
KLS	.....	.....	1000	a	Oakland, Calif., Warner Bros.
TGI	.....	.....	.....	d	Guatemala City, Guat., "Radio Morse."
WCAM	.....	2	500	a	Camden, N. J., City of Camden.
WCAP	.....	2	500	a	Asbury Park, N. J., Radio Industries Broadcast Co.
WDOD	.....	C	5000	c	Chattanooga, Tenn., WDOD Brdcastg. Corp.
WTBA	.....	N	5000	a	Madison, Wis., Badger Brdcastg. Co., Inc.
WISH	.....	P	1000(5)	z	Indianapolis, Ind., Captiol Brdcastg. Corp.
WORC	.....	C	1000	a	Worcester, Mass., Alf. Frank Kleindienst.
WRR	.....	M	5000	a	Dallas, Tex., City of Dallas.
WTNT	.....	2	500	a	Trenton, N. J., WOAX, Inc.
XEAD	.....	.....	500	z	Guadalajara, Jal.
XEC	.....	.....	100	a	Tijuana, B. Cfa., Luis F. Encisco.
XEHB	.....	.....	1000	z	Veracruz, Ver. C.
XEMG	.....	.....	250	z	Monterrey, N. L.

1320 kcs. (227.1 m.)

CMHP	.....	250	z	Placetras, Cuba, Guevara y Gonzalez.
CMKE	.....	250	a	Manzanillo, Cuba.

BROADCASTING STATIONS BY FREQUENCIES

KDYL	R	5000
KLCN	D	100
KTRH	C	5000
WATR	.....	250
WEBC	N	5000
WTAS	C	5000
WTBP	.....	250
WNBZ	D	100
WNEL	.....	5000
XEAL	.....	500
YESY	.....	200

1330 kcs. (225.4 m.)

CMBG	2	1500
CMB5	2	250
KALE	M	5000
KFAC	.....	1000
KFH	C	5000
WBRR	2	1000
WEVD	2	1000
WFBC	N	5000
WHAZ	2	1000
WHBL	.....	500(1)
WL0L	.....	1000
XEBO	.....	600
XEKS	.....	100

1340 kcs. (223.7 m.)

CFGP	.....	250
CHCK	.....	50
CHWK	F	100
CJLS	F	100
CKCO	F	100
CKCV	F	100
CMCI	.....	250
KAND	.....	250
KARM	C	250
KBND	.....	250
KCKN	E	250
KCRJ	E	250
KFPL	.....	250
KFYO	M	250
KGEZ	XZ	250
KGFW	.....	250
KHMO	P	250
KHUB	.....	250
KMYR	P	250
KOCY	.....	250
KOME	EM	250
KPDN	.....	250
KRBA	.....	250
KRIF	P	250
KRMD	.....	250
KROC	EN	250
KSUB	.....	250
KUIN	.....	250
KVIC	.....	250
KVOL	.....	250
KVOX	E	250
KVSF	C	250
KWLM	P	250
KWLM	P	250
KWOC	.....	250
KWOS	.....	250
KXRO	M	250
WATR	DM	250
WAML	.....	250
WBRE	N	250
WBRK	M	250
WBRW	.....	250
WCLS	.....	250
WCMI	M	250
WDAK	.....	250
WDMJ	.....	250
WEBR	B	250
WFMP	.....	250
WENL	.....	250

a	Salt Lake City, Utah, Intermountain Brdstg. Corp.
a	Blytheville, Ark., Fred O. Rimwood.
a	Houston, Tex., KTRH Brdstg. Co.
a	Waterbury, Conn., WATR Co., Inc.
a	Duluth, Minn., Head of the Lakes Brdstg. Co.
a	Pittsburgh, Pa., Pittsburgh Radio Supply House.
a	Jacksonville, Fla., The Metropolis Co.
a	Saranac Lake, N. Y., Up-State Brdstg. Corp.
a	San Juan, P. R., Juan Piza.
z	Mexico City, D. F., Carmen Gutierrez.
z	Nogales, Son.

z	Havana, Cuba, John L. Stowers.
a	Havana, Cuba, Enrique Artalejo.
a	Portland, Ore., KALE, Inc.
a	Los Angeles, Calif., Los Angeles Brdstg. Co., Inc.
a	Wichita, Kans., Radio Station KFII Co.
a	Brooklyn, N. Y., Watch Tower Bible & Tract Society, Inc.
a	New York, N. Y., Debs Memorial Radio Fund, Inc.
a	Greenville, S. C., Greenville News-Piedmont Co.
a	Troy, N. Y., Reusselaer Polytechnic Institute.
g	Sheboygan, Wis., Press Pub. Co.
a	Minneapolis, Minn., Independent Merchants Brdstg. Co.
z	Trapatato, Gto., Alfonso Martinez.
z	Saltillo, Coah.

a	Grande Prairie, Alta., Northern Brdstg. Corp.
z	Charlottetown, P. E. I., CHCK Radio Brdstg. Co. Ltd.
a	Chilliwack, B. C., Chilliwack Brdstg. Co., Ltd.
a	Yarmouth, N. S., Laurie L. Smith.
a	Ottawa, Ont., Dr. G. M. Geldert.
a	Quebec, P. Q., CKCV, Ltd.
z	Camaguey, Cuba, Calle Cisneros y Gurl.
z	Corsicana, Tex.
a	Fresno, Calif., KARM, The George Harm Station
z	Bend, Ore., Pilot Butte, Inc.
a	Kansas City, Kans., KCKN Brdstg. Co.
a	Jerome, Ariz., Central Arizona Brdstg. Co.
f	Dublin, Tex., KFPL Brdstg. Station.
a	Lubbock, Tex., Plains Radio Brdstg. Co.
a	Kalispell, Mont., Donald C. Treloar.
a	Kearney, Neb., Central Nebraska Brdstg. Corp.
z	Hannibal, Mo., Courier-Post Pub. Co.
a	Watsonville, Calif., John P. Scripps.
z	Denver, Colo., F. W. Meyer.
a	Oklahoma City, Okla., Plaza Court Brdstg. Co.
z	Tulsa, Okla., Oil Capital Sales Corp.
z	Pampa, Tex., R. C. Hoiles.
z	Lufkin, Tex.
z	Miles City, Mont., Star Printing Co.
a	Shreveport, La., KRMD, Inc.
a	Rochester, Minn., Southern Minn. Brdstg. Co.
a	Cedar City, Utah, Southern Utah Brdstg. Co.
a	Grants Pass, Ore., Southern Oregon Brdstg. Co.
a	Victoria, Tex., Radio Enterprises, Inc.
a	Lafayette, La., Evangeline Brdstg. Co., Inc.
a	Moorhead, Minn., KVOX Brdstg. Co.
a	Santa Fe, N. Mex., N. Mex. Brdstg. Co.
z	Hot Springs, Ark., Hot Springs Brdstg. Co.
z	Willmar, Minn., Lakeland Brdstg. Co.
a	Poplar Bluff, Mo., Radio Station KWOC.
a	Jefferson City, Mo., Tribune Printing Co.
a	Aberdeen, Wash., KXRO, Inc.
a	Winston-Salem, N. C., Radio Station WATR.
a	Laurel, Miss., New Laurel Radio Station, Inc.
a	Wilkes-Barre, Pa., Louis G. Baltimore.
a	Pittsfield, Mass., Harold Thomas.
a	Welch, W. Va., McDonald Service Co.
a	Joliet, Ill., WCLS, Inc.
a	Ashland, Ky., Ashland Brdstg. Co.
a	Valley Brdstg. Co.
a	Marquette, Mich., Lake Superior Brdstg. Co.
a	Buffalo, N. Y., WEBR, Inc.
a	Milwaukee, Wis., Milwaukee Brdstg. Co.
a	Royal Oak, Mich., Royal Oak Brdstg. Co.

BROADCASTING STATIONS BY FREQUENCIES

WFBG	R	250	a	Altoona, Pa., Gable Brdcastg. Co.
WFHR	.....	250	a	Wisconsin Rapids, Wis., Wm. F. Huffman.
WFIG	.....	250	a	Sumter, S. C., J. Samuel Brady.
WGAU	.....	250	a	Athens, Ga., J. K. Patrick & Co.
WGH	K	250	a	Newport News, Va., Hampton Roads Brdcastg. Corp.
WGTM	.....	250	a	Wilson, N. C., WGTM, Inc.
WHAT	2	250	a	Philadelphia, Pa., Independent Brdcastg. Co., Inc.
WINX	P	250	z	Washington, D. C., Lawrence J. Heller.
WIZE	P	250	z	Springfield, Ohio, Radio Voice of Springfield, Inc.
WJPF	.....	250	a	Herrin, Ill., Orville W. Lyerla.
WJPR	.....	250	a	Greenville, Miss., John R. Pepper.
WLAK	N	250	z	Lakeland, Fla., Lake Region Brdcastg. Co.
WLAV	.....	250	a	Grand Rapids, Mich., Leonard A. Verslius.
WLBC	.....	250	a	Muncie, Ind., Donald A. Burton.
WLBJ	.....	250	a	Bowling Green, Ky., Bowling Green Brdcastg. Co., Inc.
WLNH	M	250	a	Laconia, N. H., Northern Brdcastg. Co.
WMBO	.....	250	a	Auburn, N. Y., WMBO, Inc.
WMFF	B	250	a	Plattsburg, N. Y., Plattsburg Brdcastg. Corp.
WNBH	M	250	a	New Bedford, Mass., E. Anthony & Sons, Inc.
WPER	.....	250	z	De Land, Fla.
WRAW	N	250	a	Reading, Pa., Reading Brdcastg. Co.
WSAJ	G3	250	a	Grove City, Pa., Grove City College.
WSAV	N	250	a	Savannah, Ga., WSAV, Inc.
WSGN	BEM	250	a	Birmingham, Ala., Birmingham News Co.
WSOY	.....	250	a	Decatur, Ill., Commodore Brdcastg., Inc.
WSTV	GP3	250	z	Steubenville, Ohio, Valley Brdcastg. Co.
WTAL	.....	250	a	Tallahassee, Fla., Florida Capitol Brdcastg., Inc.
WTEL	2	250	a	Philadelphia, Pa., Foulkrod Radio Eng. Co.
WTRC	.....	250	a	Elkhart, Ind., Truth Pub. Co., Inc.
XEA	.....	100	a	Mexicali, B. Cia., Alberto Gonzalez.
XEBK	.....	100	z	Nuevo Laredo, Tam., Guajardo y Cortes.
XECC	.....	250	z	Tampico, Tam., Nicolas M. Picet.
XECF	.....	150	z	Los Mochis, Sin., Francisco Perez H.
XTCW	.....	250	z	Cordoba, Ver. C., Voz del Sudeste de Mexico.
XEDH	.....	200	z	Villa Acuna, Coah., Vincente Hernandez.
XEFC	.....	250	z	Merida, Yuc., Julio Molina Font.
XEFZ	.....	250	z	Coatzacoalcos, Ver. C., Pedro E. Rocher.
XEIK	.....	100	z	Chihuahua, Chih., Manuel Armandariz.
XETW	.....	100	a	Guadalajara, Jal.
XEMA	.....	250	z	Fresnillo, Zac., Jose Ma. Acevedo Moya.
XENS	.....	100	z	Toluca, Mex., Instituto Cientifica y Literario

1350 kcs (222.1 m.)

CMHI	.....	250	a	Cienfuegos, Cuba, Romualdo Ugalde.
CMKY	.....	100	z	Puerto Padre, Cuba.
HIZ	.....	200	z	Trujillo, D. R.
KGHF	B	500	a	Pueblo, Colo., Curtis P. Ritchie.
KID	.....	500(3)	a	Idaho Falls, Idaho, KID Brdcastg. Co.
KRRT	C	5000	a	Des Moines, Iowa, Iowa Brdcastg. Co.
KSRO	.....	1000	a	Santa Rosa, Calif., Ernest L. Finley.
WADC	C	5000	a	Akron, Ohio, Allen T. Simmons.
WORK	N	1000	a	York, Pa., York Brdcastg. Co.
WSMB	R	5000	z	New Orleans, La., WSMB, Inc.
XEOK	.....	1000	z	Mexico City, D. F.
XETB	.....	500	z	Torreón, Coah., Aurelio G. Zaragoza.
XETM	.....	1000	a	Naco, Son.
YV4RA	.....	500	b	Valencia, Venezuela, "La Voz de Carabobo."

1360 kcs. (220.4 m.)

CMC	3	250	a	Havana, Cuba, Valdez y Cia.
CMOA	3	250	a	Havana, Cuba, Juan Fernandez Duran.
KGB	M	1000	a	San Diego, Calif., Don Lee Brdcastg. System.
KMS	M	5000	a	Tacoma, Wash., Carl E. Haymond.
KRTO	MN	1000	a	Corpus Christi, Tex., Gulf Coast Brdcastg. Co.
KSCT	N	5000	a	Sioux City, Iowa, Sioux City Journal.
WDRC	C	5000	g	Hartford, Conn., WDRC, Inc.
WKAT	.....	1000	a	Miami Beach, Fla., A. Frank Katzentine.
WSAT	MN	5000	a	Cincinnati, Ohio, Crosley Corp.
WTAO	C	5000	a	Green Bay, Wis., WBBY, Inc.
XEPI	.....	250	z	Aguascalientes, Ags., Pedro C. Rivas
XESA	.....	500	z	Culiacan, Sin.
XEWG	.....	1000	z	Tuarez, Chih.

1370 kcs. (218.8 m.)

CMAC	P	100	z	Guanajay, Cuba.
CMIH	.....	250	d	Ciego de Avila, Cuba, Luis Marani H.
LDTH	P	1000	z	Dubuque, Iowa, Telegraph Herald Co.
KFRO	.....	1000	a	Longview, Tex., Voice of Longview.

BROADCASTING STATIONS BY FREQUENCIES

KGIR	EN	5000	a	Butte, Mont., KGIR, Inc.
KGNO	....	500(1)	c	Dodge City, Kans., Dodge City Brdstg. Co.
WCOA	N	500(1)	a	Pensacola, Fla., Pensacola Brdstg. Co.
WFEA	MN	5000	a	Manchester, N. H., N. H. Brdstg. Co.
WFNC	D	250	a	Fayetteville, N. C., Cumberland Brdstg. Co.
WPAB	....	1000	a	Ponce, P. R., Portorican American Brdstg. Co. Inc.
WSPD	R	5000	a	Toledo, Ohio, The Fort Industry Co.
NEA	....	250	z	Campeche, Cam.
XEAF	....	1000	a	Nogales, Son.
NEHL	....	500	z	Guadalajara, Jal.
XEMR	....	500	z	Monterrey, N. L.
YVIRWY	....	....	.	Coro, Venezuela, Radio Coro.

1380 kcs. (217.3 m.)

CKPC	....	100	a	Brantford, Ont., Telephone City Brdstg., Ltd.
CMHK	....	250	z	Cruces, Cuba, R. G. Gonzalez.
KBWD	P	500	z	Brownwood, Tex., Brown County Brdstg. Co.
KIDO	N	1000	a	Boise, Idaho, Boise Brdstg. Station.
KTSM	N	500	a	El Paso, Tex., Tri-State Brdstg. Co., Inc.
KWK	BM	5000	a	St. Louis, Mo., Thomas Patrick, Inc.
WAWZ	2	1000	a	Zarephath, N. J., Pillar of Fire.
WBNX	2	5000	a	New York, N. Y., WBXX Brdstg. Co., Inc.
WMBG	R	1000(5)	a	Richmond, Va., Havens & Martin, Inc.
WTSP	....	500(1)	a	St. Petersburg, Fla., Pinellas Brdstg. Co.
XELF	....	250	z	Nuevo Laredo, Tam.
XEMX	....	500	z	Mexico City, D. F.

1390 kcs. (215.7 m.)

CMBX	2	250	a	Havana, Cuba, Alberto Alvarez.
CMCB	2	250	a	Havana, Cuba, La Metropolitana.
CMKR	....	250	z	Santiago de Cuba, Jaime Nadal.
KCRC	EM	1000	a	Enid, Okla., Enid Radiophone Co.
KGER	....	1000	a	Long Beach, Calif., Consolidated Brdstg. Corp.
KLPM	....	1000	a	Minot, N. Dak., John B. Cooley.
KSLM	M	1000	a	Salem, Ore., Oregon Radio, Inc.
WCSC	C	1000	a	Charleston, S. C., S. C. Brdstg. Co., Inc.
WTBL	G	5000	a	Syracuse, N. Y., Onondaga Radio Brdstg. Corp.
WGES	G	500(1)	a	Chicago, Ill., Oak Leaves Brdstg. Station, Inc.
WQBC	D	1000	a	Vicksburg, Miss., Delta Brdstg. Co., Inc.
WTJS	....	1000	a	Jackson, Tenn., Sun Pub. Co., Inc.
XEAZ	....	250	z	Reynosa, Tam., Carlos V. Rodriguez.
XEM	....	500	z	Chihuahua, Chih.

1400 kcs. (214.2 m.)

CFAR	....	100	a	Flin Flon, Man., Arctic Radio Corp.
CFOS	....	100	a	Owen Sound, Ont., Owen Sound Sun-Times.
CHRC	....	100	a	Quebec, P. Q., CHRC, Ltd.
CIOC	F	100	a	Lethridge, Alta., H. R. Carson, Ltd.
CKCW	F	100	a	Moncton, N. B., Moncton Brdstg. Co., Ltd.
CKRN	....	250	a	Rouyn, P. Q., La Cie de Radiodiffusion.
CMJW	....	250	z	Camaguey, Cuba.
KELD	....	250	a	El Dorado, Ark., Radio Enterprises, Inc.
KENO	....	250	a	La Vegas, Nev., Nevada Brdstg. Co.
KEVR	3	250	a	Seattle, Wash., Evergreen Brdstg. Corp.
KFGO	D	250	a	Boone, Iowa, Boone Biblical College.
KFPV	....	250	a	Fort Smith, Ark., Southwestern Hotel Co.
KFRU	....	250	a	Columbia, Mo., KFRU, Inc.
KFVS	....	250	a	Cape Girardeau, Mo., Hirsch Battery & Radio Co.
KGFL	....	250	a	Roswell, N. Mex., KGFL, Inc.
KGKL	M	250	a	San Angelo, Tex., KGKL, Inc.
KTCA	....	250	a	Clovis, N. Mex., Western Broadcasters, Inc.
KLUN	....	250	a	Pecos, Tex., J. Hawkins & B. H. Tubbs.
KLUP	....	250	a	Durango, Colo., San Juan Brdstg. Co.
KLUF	....	250	a	Galveston, Tex., KLUF, Inc.
KMAC	5	250	a	San Antonio, Tex., The Wolmac Co.
KOBH	....	250	a	Rapid City, S. Dak., Black Hills Brdstg. Co.
KOKO	....	250	a	La Junta, Colo., Southwest Brdstg. Co.
KONO	5	250	a	San Antonio, Tex., Mission Brdstg. Co.
KORN	....	250	a	Fremont, Nebr., Nebraska Brdstg. Corp.
KRE	....	250	a	Berkeley, Calif., Central Calif. Broadcasters, Inc.
KRKO	3	250	a	Everett, Wash., Everett Brdstg. Co., Inc.
KRLC	....	250	a	Lewiston, Idaho, H. E. Studebaker.
KRMC	....	250	a	Jamestown, N. Dak., Jamestown Brdstg. Co., Inc.
KTEM	M	250	a	Temple, Tex., Bell Brdstg. Co.
KTOK	EMN	250	a	Oklahoma City, Okla., Oklahoma Brdstg. Co., Inc.
KTSW	M	250	a	Emporia, Kans., Emporia Brdstg. Co., Inc.
KTUC	CE	250	a	Tucson, Ariz., Tucson Brdstg. Co., Inc.

BROADCASTING STATIONS BY FREQUENCIES

KVFD	G	250	a	Fort Dodge, Iowa, Northwest Brdcastg. Co.
KVGB	.....	250	a	Great Bend, Kans., Helen Townsley.
KVRS	.....	250	a	Rock Springs, Wyo., Wyoming Brdcastg. Co.
KWLK	.....	250	a	Longview, Wash., Twin City Brdcastg. Corp.
KWYO	.....	250	a	Sheridan, Wyo., Big Horn Brdcastg. Co., Inc.
KYAN	P	250	a	Cheyenne, Wyo., Western Brdcastg. Co. of Wyo.
WABY	BM	250	a	Albany, N. Y., Adirondack Brdcastg. Co., Inc.
WAGF	.....	250	a	Dothan, Ala., Dothan Brdcastg. Co.
WARM	P	250	z	Scranton, Pa., Union Brdcastg. Co.
WATL	M	250	a	Atlanta, Ga., Atlanta Brdcastg. Co.
WATV	.....	250	a	Ashland, Wis., WJMS, Inc.
WBLK	N	250	a	Clarksburg, W. Va., Charleston Brdcastg. Co.
WBNY	2	250	a	Buffalo, N. Y., Roy L. Albertson.
WBTH	.....	250	z	Williamson, W. Va., Williamson Brdcastg. Corp.
WBTM	.....	250	a	Danville, Va., Piedmont Brdcastg. Corp.
WCHI	.....	250	a	Columbus, Miss., Birney Innes.
WCBM	.....	250	a	Baltimore, Md., Baltimore Brdcastg. Corp.
WCNC	.....	250	z	Elizabeth City, N. C., Albermarle Brdcastg. Co.
WCOS	.....	250	z	Columbia, S. C., Carolina Adv. Corp.
WDAS	.....	250	a	Philadelphia, Pa., WDAS, Brdcastg. Station, Inc.
WDEF	.....	250	a	Chattanooga, Tenn., Joe W. Engel.
WDWS	.....	250	a	Champaign, Ill., Champaign News-Gazette, Inc.
WELL	B	250	a	Battle Creek, Mich., Federated Publications, Inc.
WEOA	C	250	a	Evansville, Ind., Evansville, on the Air, Inc.
WEST	M	250	a	Easton, Pa., Associated Broadcasters, Inc.
WFOR	.....	250	a	Hattiesburg, Miss., Forrest Brdcastg. Co., Inc.
WFTL	.....	250	a	Fort Lauderdale, Fla., Tom M. Byran.
WGFR	.....	250	a	Goldsboro, N. C., Eastern Carolina Brdcastg. Co.
WGIL	.....	250	a	Galesburg, Ill., Galesburg Brdcastg. Co.
WGRC	M	250	a	New Albany, Ind., North Side Brdcastg. Corp.
WHBO	.....	250	a	Memphis, Tenn., WHBO, Inc.
WHDF	.....	250	a	Calumet, Mich., Upper Mich. Brdcastg. Co.
WHKY	.....	250	a	Hickory, N. C., Catawba Valley Brdcastg. Co., Inc.
WHLB	C	250	a	Virginia, Minn., Head of the Lakes Brdcastg. Co.
WHUB	.....	250	a	Cookeville, Tenn., WHUB, Inc.
WHYN	P	250	z	Holyoke, Mass., Hampden-Hampshire Corp.
WINC	P	250	z	Winchester, Va., Richard Field Lewis.
WIAC	R	250	a	Johnstown, Pa., WIAC, Inc.
WHIO	.....	250	a	Opelika, Ala., Opelika-Auburn Brdcastg. Co.
WJLB	.....	250	a	Detroit, Mich., John L. Booth Brdcastg., Inc.
WKMO	P	250	z	Kokomo, Ind.
WRPT	N	250	a	Kingsport, Tenn., Kingsport Brdcastg. Co., Inc.
WKWK	Sx	100	z	Wheeling, W. Va.
WLLH	.....	10-100	a	Lawrence, Mass., Merrimac Brdcastg. Co., Inc.
WLLH	MS	250	a	Lowell, Mass., Merrimac Brdcastg. Co., Inc.
WLMAN	.....	250	a	Mansfield, Ohio, Richland, Inc.
WMBR	C	250	a	Jacksonville, Fla., Florida Brdcastg. Co.
WMFD	.....	250	a	Wilmington, N. C., Richard A. Dunlea.
WMGA	.....	250	z	Moultrie, Ga., Frank R. Pidcock, Sr.
WMIN	.....	250	a	St. Paul, Minn., WMIN Brdcastg. Co.
WMSL	E	250	a	Decatur, Ala., Tenn. Valley Brdcastg. Co., Inc.
WORD	.....	250	a	Spartanburg, S. C., Spartanburg Advertising Co.
WPAY	.....	250	a	Portsmouth, Ohio, Veebee Corp.
WRAK	.....	250	a	Williamsport, Pa., WRAK, Inc.
WRDO	MN	250	a	Augusta, Maine, WRDO, Inc.
WRFN	.....	250	a	Racine, Wis., Racine Brdcastg. Corp.
WSAU	.....	250	a	Wausau, Wis., Northern Brdcastg. Co., Inc.
WSLB	.....	250	z	Ogdensburg, N. Y., St. Lawrence Brdcastg. Corp.
WSVS	G2	250	e	Buffalo, N. Y., Board of Education.
WTCM	.....	250	a	Traverse City, Mich., Midwestern Brdcastg. Co.
NEAT	.....	100	z	Navajo, Son.
NEAM	.....	250	z	Matamoros, Tam.
NEDE	.....	100	z	Torreón, Coah.
NEF	.....	100	a	Iuarez, Chih., Gilberto Gil.
NEFL	.....	250	z	Morelia, Micho., Carlos Gutierrez M.
NETA	.....	100	z	Jalapa, Ver. C.
NEFK	.....	250	z	Acapulco, Gro.
NEFH	.....	100	z	Merida, Yuc.
NEPF	.....	100	z	Ensenada, B. Cfa.
NEWE	.....	100	z	Silao, Gto.
NEXM	.....	250	z	Guadalajara, Jal.
NEXO	.....	100	z	San Luis Potosi, S.I.P.
VV1RC	.....	600	a	Maracaibo Venez., "La Voz de la Fe."
VV4RE	.....	200	a	Valencia, Venez., "Radio Valencia."
VV6RA	.....	250	a	Bolívar, Venez., "Ecos del Orinoco."
.....	P	250	z	Clarksville, Tenn., Wm. D. Hudson.

1410 kcs. (212.5 m.)

CKMO	.....	1000	a	Vancouver, B. C., B. C. Brdcastg. Sys., Ltd.
CMHB	.....	250	z	Saucti Spiritus, Cuba, V. E. Weiss y Cia.

BROADCASTING STATIONS BY FREQUENCIES

KERN	BE	1000	a	Bakersfield, Calif., McClatchy Brdcastg. Co.
KQV	....	1000	a	Pittsburgh, Pa., KQV Brdcastg. Co.
WALA	....	5000	a	Mobile, Ala., Pape Brdcastg. Co.
WING	N	5000	a	Dayton, Ohio, Great Trails Brdcastg. Corp.
WKBH	C	5000	a	La Crosse, Wis., WKBH, Inc.
WNBC	B	1000(5)	a	New Britain, Conn., State Brdcastg. Corp.
XEBS	....	750	z	Mexico City, D. F.
XELC	....	250	z	Laredo, Tam.
XERY	....	500	z	Agua Prieta, Son.

1420 kcs. (211.1 m.)

CMBD	2	250	z	Havana, Cuba, Luiz Perez Marcia.
CMCO	2	250	a	Havana, Cuba, Calle Vista Alegre.
KABR	....	5000	a	Aberdeen, S. Dak., Aberdeen Brdcastg. Co.
KLRA	C	5000	a	Little Rock, Ark., Arkansas Brdcastg. Co.
KUJ	....	1000	a	Walla Walla, Wash., KUJ, Inc.
WFCI	P	1000	z	Pawtucket, R. I., Pawtucket Brdcastg. Co.
WHK	BKM	5000	f	Cleveland, Ohio, United Brdcastg. Co.
WQDM	D	1000	z	St. Albans, Vt., Regan & Bostwick.
WWSR	DP	1000	z	St. Albans, Vt., Vermont Radio Corp., Inc.
XEDS	....	500	z	Mazatlan, Sin.
XESJ	....	1000	z	Saltillo, Coah.

1430 kcs. (209.7 m.)

CMKZ	....	250	z	Palma Soriano, Cuba, Joaquin Venero Obregon.
KLO	BEM	5000	a	Ogden, Utah, Interstate Brdcastg. Corp.
KTUL	C	5000	a	Tulsa, Okla., Tulsa Brdcastg. Co., Inc.
WARD	2a	500	a	Brooklyn, N. Y., United States Brdcastg. Corp.
WBBC	2a	500	a	Brooklyn, N. Y., Brooklyn Brdcastg. Corp.
WIRE	MR	5000	a	Indianapolis, Ind., Indianapolis Brdcastg., Inc.
WLTH	2	500	a	New York, N. Y., WLTH-New York, Inc.
WVFW	2a	500	a	Brooklyn, N. Y., Paramount Brdcastg. Corp.
XEAO	....	100	z	Villa Acuna, Coah.
NECZ	....	1000	z	San Luis Potosi, S.L.P., Teperino Z. Jiminez.
XEOK	....	100	z	Progreso, Yuc., Arturo Pina Perez.
YV4RL	....	800	a	Maracay, Venez., "Radio Maracay".

1440 kcs. (208.2 m.)

CMGH	....	500	a	Matanzas, Cuba, "Rialto".
CMJI	....	250	a	Ciego de Avila, Cuba, Gilberto Gesse Lopez.
KFTM	....	500	a	Grand Forks, N. Dak., University of N. Dak.
KGNC	M	1000(5)	a	Amarillo, Tex., Plains Radio Brdcastg. Co.
KMED	N	1000	b	Medford, Ore., Mrs. W. J. Virgin.
WAAB	EM	1000	a	Boston, Mass., The Yankee Network, Inc.
WBCM	....	500(1)	a	Bay City, Mich., Bay Brdcastg. Co., Inc.
WHIS	....	500(1)	a	Bluefield, W. Va., Daily Telegram Ptg. Co.
WROK	M	500(1)	a	Rockford, Ill., Rockford Broadcasters, Inc.
WWSA	E	500(1)	a	Montgomery, Ala., Montgomery Brdcastg. Co., Inc.
NEFI	....	1000	a	Chihuahua, Chih., Feliciano Lopez Islas.
XELZ	....	1000	z	Mexico City, D.F., Maria Gardena de Tetina.
XERT	....	500	z	Tijuana, B. Cfa.

1450 kcs. (206.8 m.)

CFLC	....	100	a	Prescott, Ont., Radio Ass'n of Prescott.
CHLN	....	100	a	Three Rivers, P.Q., Three Rivers le Nouvelliste.
CKCA	F	100(25)	a	Kenora, Ont., Kenora Brdcastg. Co., Ltd.
CKLN	F	100	a	Nelson, B. C., News Pub., Co., Ltd.
CMAB	....	250	z	Pinar del Rio, Cuba, Hotel Ricardo.
CMHM	....	250	z	Cienfuegos, Cuba.
HRN	....	500	b	Tegucigalpa, Honduras, "La Voz de Honduras".
KARC	M	250	a	San Antonio, Tex., Alamo Brdcastg. Co., Inc.
KATE	E	250	a	Albert Lea, Minn., Albert Lea Austin Brd. Co. Inc.
KBPS	4	250	a	Portland, Ore., Benson Polytechnic School.
KCMC	M	250	a	Texarkana, Tex., KCMC, Inc.
KDNT	....	250	a	Denton, Tex., Harwell V. Shepard.
KEUB	EM	250	a	Price, Utah Eastern Utah Brdcastg. Co.
KFAM	EN	250	a	St. Cloud, Minn., The Times Pub. Co.
KFCB	....	250	a	Cheyenne, Wyo., Frontier Brdcastg. Co.
KFIZ	E	250	a	Fond du Lac, Wis., Reporter Printing Co.
KFMB	....	250	z	San Diego, Calif.
KFUN	P	250	z	Las Vegas, Nev.
KGFF	EM	250	a	Shawnee, Okla., KGFF Brdcastg. Co., Inc.
KGIW	3	250	a	Alamosa, Colo., E. L. Allen.
KGLU	EN	250	a	Safford, Ariz., Gila Brdcastg. Co.
KIDW	3	250	a	Lamar, Colo., Lamar Brdcastg. Co.
KIRB	....	250	a	La Grande, Ore., Harold M. Finley.
KMYC	....	250	a	Marysville, Calif., Marysville-Yuba City Brdcastrs. Inc.
KNET	....	250	z	Palestine, Tex.

BROADCASTING STATIONS BY FREQUENCIES

KORE	M	250	a	Eugene, Ore., Eugene Broadcast Station.
KRBC	M	250	a	Ablene, Tex., Reporter Brdcast. Co.
KRRM	EN	250	a	Bozeman, Mont., KRRM Broadcasters.
KRIC	.....	250	z	Beaumont, Tex., KRIC, Inc.
KRLH	.....	250	z	Midland, Tex., Clarence Scharbau.
KSAN	.....	250	a	San Francisco, Calif., Golden Gate Brdcastg. Corp.
KTRU	.....	250	f	Sioux City, Iowa, Sioux City Brdcastg. Co.
KVAK	.....	250	a	Achison, Kans., Carl Latenser.
KWAL	.....	250	a	Wallace, Idaho, C. Howarth and C. Berger.
KWBG	.....	250	a	Hutchinson, Kans., Nations Center Brdcast. Co., Inc.
KXL	.....	250	b	Portland, Ore., KXL Broadcasters.
TGO	.....	200	a	Quezaltenango Guatemala, Director of Elec. Comm.
WACO	M	250	b	Waco, Tex., Frontier Brdcastg. Co., Inc.
WAGM	.....	250	a	Presque Isle, Maine, Aroostook Brdcastg. Corp.
WAOV	P	250	z	Vincennes, Ind., Vincennes News Papers, Inc.
WAZL	M	250	a	Hazleton, Pa., Hazleton Brdcastg. Service, Inc.
WCBS	N	250	a	Springfield, Ill., WCBS, Inc.
WCHV	.....	250	a	Charlottesville, Va., Community Brdcastg. Corp.
WEED	.....	250	a	Rocky Mount, N. C., Wm. Avera Wynne.
WFMI	.....	250	a	Youngstown, Ohio, Wm. F. Maag, Jr.
WFPG	.....	250	a	Atlantic City, N. J., Neptune Brdcastg. Corp.
WGL	N	250	a	Fort Wayne, Ind., Westinghouse Radio Stations, Inc.
WGNC	.....	250	a	Gastonia, N. C., WGNC, Inc.
WGOV	.....	250	a	Valdosta, Ga., Governor E. D. Rivers.
WGPC	.....	250	a	Albany, Ga., Albany Brdcastg. Co., Inc.
WHDL	.....	250	a	Olean, N. Y., WHDL, Inc.
WHFC	.....	250	a	Cicero, Ill., WHFC, Inc.
WHLN	P	250	z	Harlan, Ky., Blanford Radio Co., Inc.
WHLS	.....	250	a	Port Huron, Mich., Port Huron Brdcastg. Co.
WHMA	.....	250	a	Anniston, Ala., Harry M. Ayers.
WIBM	B	250	a	Jackson, Mich., WIBM, Inc.
WILM	.....	250	a	Wilmington, Del., Delaware Brdcastg. Co.
WJMS	.....	250	a	Ironwood, Mich., WJMS, Inc.
WKEU	.....	250	a	Griffin, Ga., Station WKEU.
WKIP	.....	250	a	Poughkeepsie, N. Y., Poughkeepsie Brdcastg. Corp.
WLAP	M	250	a	Lexington, Ky., American Brdcastg. Corp.
WLEU	B	250	a	Eric, Pa., WLEU Brdcastg. Corp.
WLPM	.....	250	a	Suffolk, Va., Suffolk Brdcastg. Corp.
WMAS	C	250	a	Springfield, Mass., WMAS, Inc.
WMBH	.....	250	a	Joplin, Mo., Joplin Brdcastg. Co.
WMDF	P	250	z	Greenwood, S. C., Grecco, Inc.
WMFT	N	250	a	Daytona Beach, Fla., W. Wright Esch.
WMSD	.....	250	a	Muscle Shoals City, Ala., Muscle Shoals Brd. Corp.
WMVA	P	250	z	Martinsville, Va., Martinsville Brdcastg. Co.
WMWH	P	250	z	Augusta, Ga., W. Montgomery Harison
WNAW	P	250	z	Bridgeport, Conn., Harold Thomas
WNOE	.....	250	a	New Orleans, La., WNOE, Inc.
WOC	.....	250	a	Davenport, Iowa, Tri-City Brdcastg. Co.
WPAD	.....	250	a	Paducah, Ky., Paducah Brdcastg. Co.
WPAR	C	250	a	Parkersburg, W. Va., Ohio Valley Brdcastg. Corp.
WRLC	P	250	z	Toccoa, Ga., R. G. Le Tourneau
WSLI	.....	250	a	Jackson, Miss., Standard Life Brdcastg. Co.
WSPB	.....	250	a	Sarasota, Fla. WSPB, Inc.
WWDC	P	250	z	Washington, D. C., Capital Brdcastg. Co.
XFBJ	.....	100	a	Victoria, Tam., Fernando Elizalde.
XFBQ	.....	100	z	Torreón, Coah., Maria Refugio Acosta.
XFDI	.....	100	z	Magdalena, Son.
XFFK	.....	100	z	Merida, Yuc., Manuel Zapata Espinosa.
XFGC	.....	100	z	Zamora, Micho., Guillermo Calzada.
XFIN	.....	250	z	Aguascalientes, Ags.
XFPF	.....	100	z	Orizaba, Ver.
XFRK	.....	100	z	Tepic, Nav.
XEXE	.....	100	z	Texcoco, Mex.
XFXP	.....	100	z	Matamoros, Tam.
XEY	.....	250	z	San Luis Rio Colorado, Son.

1460 kcs. (205.4 m.)

CIGX	F	1000	a	Yorkton, Sask., Yorkton Brdcastg. Co., Ltd.
CMCG	.....	250	a	Havana, Cuba, "La Onda", S.A.
CMKO	E	500	z	Santiago de Cuba, Cadena Azul.
KGNF	D	1000	a	North Platte, Nebr., Great Plains Brdcastg. Co.
KINY	.....	1000	a	Tuneau, Alaska, Edwin A. Kraft.
KSO	BM	1000(5)	a	Des Moines, Iowa, Iowa Brdcastg. Co.
WBNS	C	1000(5)	a	Columbus, Ohio, WBNS, Inc.
WHFC	C	500(1)	a	Rochester, N. Y., WHFC, Inc.
WHP	C	1000(5)	b	Harrisburg, Pa., WHP, Inc.
WMPS	M	500	a	Memphis, Tenn., Memphis Comm. Appeal.
WOKO	CK	500(1)	a	Albany, N. Y., WOKO, Inc.
XELH	.....	100	z	Nuevo Laredo, Tam.
XETU	.....	1000	z	Tampico, Tam.

BROADCASTING STATIONS BY FREQUENCIES

1470 kcs. (204 m.)

CKGB	F	1000	a	Timmins, Ont., R. H. Thomson.
CMGE	.....	250	a	Cardenas, Cuba, Genaro Sebater.
CMJO	.....	250	a	Ciego de Avila, Cuba, Bonifacio Hdelonso.
HISQ	.....	25	z	Trujillo, D. R., Julio A. Garcia.
KDFN	.....	1000	a	Casper, Wyo., Donald Lewis Hathaway.
KELA	M	1000	a	Centralia, Wash., Central Brdcastg. Corp.
KXYZ	B	1000	a	Houston, Tex., Harris County Brdcastg. Co.
WBIG	C	5000	a	Greensboro, N. C., N. C. Brdcastg. Co., Inc.
WCBA	a	1000	a	Allentown, Pa., Lehigh Valley Brdcastg. Co.
WMBD	C	1000(5)	a	Peoria, Ill., Peoria Brdcastg. Co.
WSAN	Na	1000	a	Allentown, Pa., Lehigh Valley Brdcastg. Co.
XEAU	.....	5000	z	Tijuana, B. Cla.
XESM	.....	1000	z	Mexico City, D.F., Av. Claudio Bernard.
YV3RE	.....	300	a	Barquisimeto, Venez., "Radio Barquisimeto"

1480 kcs. (202.6 m.)

CFCT	.....	500	a	Victoria, B. C., Victoria Brdcastg. Ass'n.
CHGS	F	50	a	Summerside, P.E.I., R. T. Holman, Ltd.
CMHX	.....	250	a	Cienfuegos, Cuba, J. Garcia R.
KCMO	.....	1000(5)	a	Kansas City, Mo., KCMO Brdcastg. Co.
KGCN	F	1000	a	Wolf Point, Mont., E. E. Krebsback.
KIEM	M	500	a	Eureka, Calif., Redwood Brdcastg. Co.
KTBS	N	1000	a	Shreveport, La., Tri-State Brdcastg. Sys., Inc.
WAGA	B	500	a	Atlanta, Ga., Liberty Brdcastg. Corp.
WGAR	C	1000(5)	a	Cleveland, Ohio, WGAR Brdcastg. Co.
WHOM	.....	500(1)	a	Jersey City, N. J., N. J. Brdcastg. Corp.
WSAR	M	1000	f	Fall River, Mass., Doughty & Welch Elec. Co., Inc.

1490 kcs. (201.2 m.)

CFRC	F	100	a	Kingston, Ont., Queens University.
CHLP	F	100	a	Montreal, P.Q., La Patrie Pub. Co.
CIJC	F	100	a	Sault Ste. Marie, Ont., Whitby & Hyland.
CMCA	2	250	a	Havana, Cuba, Tester y Gonzalez.
CMKF	.....	250	a	Holguin, Cuba, Manuel De Gongora.
CMOX	2	250	a	Havana, Cuba, Perez y Chisholm.
KAWM	.....	250	a	Gallup, N. Mex., A. W. Mills.
KBIX	EM	250	a	Muskogee, Okla., Okla. Press Pub. Co.
KBKR	.....	250	a	Baker, Ore., Louis P. Thornton.
KBST	.....	250	a	Big Spring, Tex., Big Spring Herald Brdcastg. Co.
KBUR	P	250	z	Burlington, Iowa, Burlington Brdcastg. Co.
KDAL	C	250	a	Duluth, Minn., Red River Brdcastg. Co., Inc.
KDB	EM	250	a	Santa Barbara, Calif., Santa Barbara Brdcastrs., Ltd.
KDRO	.....	250	z	Sedalia, Mo., Drolich Bros.
KEYS	P	250	z	Corpus Christi, Tex., Nueces Brdcastg. Co.
KGFI	.....	250	z	Brownsville, Tex.
KGKB	.....	250	z	Tyler, Tex.
KGKY	.....	250	a	Scottsbluff, Nebr., Hilliard Co.
KNEL	.....	250	a	Brady, Tex., Y. L. Burns.
KNOW	M	250	a	Austin, Tex., Frontier Brdcastg. Co., Inc.
KONB	P	250	z	Omaha, Nebr., MSB Brdcastg. Co.
KOTN	.....	250	a	Pine Bluff, Ark., Universal Brdcastg. Corp.
KOVC	.....	250	a	Valley City, N. Dak., KOVC, Inc.
KPAB	.....	250	a	Laredo, Tex., Mervel M. Valentine.
KPLC	.....	250	a	Lake Charles, La., Calcasieu Brdcastg. Co.
KPLT	.....	250	a	Paris, Tex., North Texas Brdcastg. Co.
KPO	M	250	a	Wenatchee, Wash., Westcoast Brdcastg. Co.
KRNR	M	250	a	Roseburg, Ore., News-Review Pub. Co.
KSAM	.....	250	z	Huntsville, Tex.
KTOH	.....	250	a	Iihue, Hawaii, Garden Island Pub. Co., Ltd.
KVOE	M	250	a	Santa Ana, Calif., Voice of the Orange Empire, Inc.
KVWC	.....	250	z	Vernon, Tex., Northwestern Brdcastg. Co.
KWFE	.....	250	a	Hobbs, N. Mex., W. E. Whitmore.
KXO	M	250	a	El Centro, Calif., Valradio Co., Inc.
KYCA	E	250	a	Prescott, Ariz., Southwest Brdcastg. Co.
WBAB	C	250	a	Atlantic City, N. J., Press Union Pub. Co.
WBOC	.....	250	a	Salisbury, Md., Peninsula Brdcastg. Co.
WBTA	P	250	z	Batavia, N. Y., Batavia Brdcastg. Corp.
WDAN	.....	250	a	Danville, Ill., Northwestern Pub. Co.
WDRC	P	250	z	Escanaba, Mich.
WDNC	.....	250	a	Durham, N. C., Durham Radio Corp.
WFER	C	250	a	Eric, Pa., Presque Isle Brdcastg. Co.
WGAL	MN	250	a	Lancaster, Pa., WGAL, Inc.
WGVV	N	250	z	Charleston, W. Va., Kanawah Valley Brdcastg. Co.
WGTC	D	250	a	Greenville, N. C., Greenville Brdcastg. Co.
WHBB	.....	250	a	Selma, Ala., Selma Brdcastg. Co., Inc.
WIGM	P	250	z	Medford, Wis.

BROADCASTING STATIONS BY FREQUENCIES

WJFK	.....	250	a	Detroit, Mich., J. F. Hopkins, Inc.
WKBB	N	250	a	Dubuque, Iowa, Sanders Bros.
WKBV	.....	250	a	Richmond, Ind., Knox Radio Corp.
WKBZ	.....	250	a	Muskegon, Mich., Ashbacker Radio Corp.
WKNY	.....	250	a	Kingston, N. Y., Kingston Brdcastg. Corp.
WKRO	P	250	z	Cairo, Ill., Oscar C. Hirsch.
WMMI	.....	250	a	Cordele, Ga., Cordele Dispatch Pub. Co., Inc.
WMOG	.....	250	a	Brunswick, Ga., Coastal Brdcastg. Co.
WMRC	.....	250	a	Greenville, S. C., Textile Brdcastg. Co.
WMRF	P	250	z	Lewistown, Pa., Lewistown Brdcastg. Co.
WMRN	.....	250	z	Marion, Ohio, Marion Brdcastg. Co.
WNBF	C	250	a	Binghamton, N. Y., W. B. Jones Adv. Agency.
WNLC	M	250	a	New London, Conn., Thames Brdcastg. Corp.
WOLF	.....	250	a	Syracuse, N. Y., Civic Brdcastg. Corp.
WOMI	.....	250	a	Owensboro, Ky., Owensboro Brdcastg. Co.
WOPI	.....	250	a	Bristol, Tenn., Radiophone Station WOPI.
WRDW	C	250	a	Augusta, Ga., Augusta Brdcastg. Co.
WRGA	.....	250	a	Rome, Ga., Rome Brdcastg. Corp.
WSLA	.....	250	a	Roanoke, Va., Roanoke Brdcastg. Corp.
WSTP	M	250	a	Salisbury, N. C., Piedmont Brdcastg. Corp.
WSYB	M	250	a	Rutland, Vt., Philip Weiss Music Co.
WTMC	.....	250	a	Ocala, Fla., Ocala Brdcastg. Co., Inc.
WTMV	.....	250	a	East St. Louis, Ill., Miss. Valley Brdcastg. Co., Inc.
WWSW	.....	250	a	Pittsburgh, Pa., Walker & Downing Radio Corp.
NECH	.....	250	z	Toluca, Mex.
NEDR	.....	100	z	Guaymas, Son., Modeste Ortega.
NEGT	.....	100	z	Guadalajara, Jal.
NETR	.....	100	z	Parral, Chih.
NETR	.....	100	z	Vadero, Tam.
NEXF	.....	100	z	Veracruz, Ver. C.
NEXL	.....	100	z	Saltillo, Coah.
YV4RR	.....	500	a	Puerto Cabello, Venez., "Radio Pto. Cabello".
.....	P	250	z	Natchez, Miss., Natchez Brdcastg. Co.

1500 kcs. (199.9 m.)

KSTP	MR	50000
WISV	C	50000
NERH	.....	500
YVIRA	.....	150

[]	a	St. Paul, Minn., KSTP, Inc.
[]	a	Washington, D. C., CBS, Inc.
[]	z	Mexico City, D. F.
[]	a	Maracaibo, Venez., "Ecos del Zulia".

1510 kcs. (198.6 m.)

KGA	BM	10000
WLAC	C	50000
WMEX	.....	5000

[]	a	Spokane, Wash., Louis Wasmer.
[]	a	Nashville, Tenn., WLAC Brdcastg. Serv.
[]	a	Boston, Mass., The Northern Corp.

1520 kcs. (197.3 m.)

KOMA	C	50000
TGW	.....	5000
WHIP	D	5000
WKBW	CM	50000
WPRP	.....	1000(5)

[]	a	Oklahoma City, Okla., KOMA, Inc.
[]	e	Guatemala City, Guat., Radiodifusora Nacional
[]	z	Hammond, Ind., Hammond-Calumet Brdcastg. Corp.
[]	a	Buffalo, N. Y., Buffalo Brdcastg. Corp.
[]	a	Ponce, Puerto Rico, Julio M. Conesa

1530 kcs. (196 m.)

KFBK	BE	10000
WCKY	C	50000

[]	a	Sacramento, Calif., McClatchey Brdcastg. Co.
[]	a	Cincinnati, Ohio, L. B. Wilson, Inc.

1540 kcs. (194.7 m.)

EMBH	5000
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[]	e	Havana, Cuba, Alberto Alvarez
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1550 kcs. (193.4 m.)

.....	P	20000
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[]	z	Mexico City, D. F.
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1560 kcs. (112.2 m.)

CMHD	250
WQXR	10000

[]	d	Caibarien, Cuba, Manuel Alvarez M.
[]	a	New York, N. Y., Interstate Brdcastg. Co.

1570 kcs. (191.0 m.)

CFPL	F	1000
NEAW	.....	100000

[]	a	London, Ont., London Free Press
[]	a	Monterrey, N. L.

1580 kcs. (189.8 m.)

CMCT	2	250
CMCR	2	250
CMJQ	.....	250

[]	a	Havana, Cuba, Radio Emisora Comercial
[]	z	Havana, Cuba, Av. de Menocal 115
[]	z	Nuevitas, Cuba

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BROADCASTING STATIONS BY LOCATIONS

Frequency is given in kilocycles in second column. For power and network affiliations, refer to the list of Broadcasting Stations by Frequencies.

THE UNITED STATES OF AMERICA

ALABAMA

Anniston	
WHMA	1450
Birmingham	
WAPI	1070
WBRC	960
WSGN	1340
Decatur	
WMSL	1400
Dothan	
WAGF	1400
Gadsden	
WJBY	1240
Huntsville	
WBHP	1230
Mobile	
WALA	1410
WMOB	1230
Montgomery	
WCOV	1240
WSFA	1440
Muscle Shoals City	
WMSD	1450
Opelika	
WJHO	1400
Selma	
WHBB	1490
Tuscaloosa	
WTRD	1230

ALASKA

Anchorage	
KFQD	790
Fairbanks	
KFAR	610
Ketchikan	
KINY	1460
Juneau	
KGBU	930

ARIZONA

Globe	
KWJB	1240
Jerome	
KCRJ	1340
Lowell	
KSUN	1230
Phoenix	
KOY	550
KPHO	1230
KTAR	620
Prescott	
KYCA	1490
Safford	
KGLU	1450

Tucson	
KTUC	1400
KVOA	1290
Yuma	
KYUM	1240

ARKANSAS

Blytheville	
KLCN	1320
El Dorado	
KELD	1400
Fort Smith	
KFWP	1400
Hot Springs	
KTHS	1090
KWFC	1340
Jonesboro	
KBTM	1230
Little Rock	
KARK	920
KGHI	1230
KLRA	1420
Pine Bluff	
KOTN	1490
Siloam Springs	
KUOA	1290

CALIFORNIA

Bakersfield	
KERN	1410
KPMC	1600
Berkeley	
KRE	1400
Beverly Hills	
KMPC	710
Chico	
KHSL	1290
El Centro	
KXO	1490
Eureka	
KIEM	1480
Fresno	
KARM	1340
KMJ	580
Glendale	
KIEV	870
Long Beach	
KFOX	1280
KGER	1390
Los Angeles	
KBCA	790
KFAC	1330
KFI	640
KFSG	1150
KFVD	1020
KFWB	980

KGfJ	1230
KHJ	930
KMTR	570
KNX	1070
KRRD	1150
Marysville	
KMYC	1450
Merced	
KYOS	1080
Modesto	
KTRB	860
Monterey	
KDON	1240
Oakland	
KLS	1310
KIX	910
KROW	960

Pasadena	
KPPC	1240
Redding	
KVCV	1230
Sacramento	
KFBK	1530
KROY	1240
San Bernardino	
KFXM	1240
San Diego	
KFMB	1450
KFSD	600
KGB	1360
San Francisco	
KFRC	610
KGO	810
KIBS	1100
KPO	680
KSAN	1450
KSFO	560
KYA	1260

San Jose	
KQW	740
San Luis Obispo	
KVEC	1230
Santa Ana	
KVOE	1490
Santa Barbara	
KDB	1490
KTMS	1250
Santa Rosa	
KSRO	1350
Stockton	
KGDM	1130
KWG	1230
Visalia	
KTKC	920
Watsonville	
KHUB	1340

COLORADO

Alamosa	
KGIW	1450
Colorado Springs	
KVOR	1300
Denver	
KFEL	950
KLZ	560

KMYR	1340
KOA	850
KPOF	
KVOD	630
Durango	
KIUP	1400
Grand Junction	
KFXJ	1230
Greeley	
KFKA	910
La Junta	
KOKO	1400
Lamar	
KIDW	1450
Pueblo	
KGHF	1350
Sterling	
KGEK	1230

CONNECTICUT

Bridgeport	
WICC	600
WNAB	1450
Hartford	
WDRG	1360
WTIC	1080
WHTT	1230
New Britain	
WNBC	1410
New Haven	
WELI	960
New London	
WNLC	1490
Waterbury	
WATR	
WBRY	1590

DELAWARE

Wilmington	
WDEL	1150
WILM	1450

DISTRICT OF COLUMBIA

Washington	
WINK	1340
WISV	1500
WMAL	630
WOL	1260
WRC	980
WWDC	1450

FLORIDA

Daytona Beach	
WMEJ	1450
De Land	
WPER	1340

Ft. Lauderdale	
WFTL	1400
Ft. Myers	
WFTM	1240
Gainesville	
WRUF	850
Jacksonville	
WTAX	930
WHIP	1320
WMBR	1400
Lakeland	
WFLK	1340
Miami	
WTOD	
WQAM	560
Miami Beach	
WKAT	1360
Ocala	
WTMC	1490
Orlando	
WDBO	580
WLOF	1230
Panama City	
WDLP	1230
Pensacola	
WCOA	1370
St. Augustine	
WFOY	1240
St. Petersburg	
WSUN	
WTPS	1380
Sarasota	
WSPB	1450
Tallahassee	
WTAL	1340
Tampa	
WDAE	
WFLA	970
West Palm Beach	
WJNO	1230

GEORGIA

Albany	
WALB	1500
WGPC	1450
Athens	
WGAU	1340
Atlanta	
WAGA	1480
WATL	1400
WGST	920
WSB	750
Augusta	
WGAC	
WMWH	1450
WRDW	1490
Brunswick	
WMOG	1490
Columbus	
WRBL	1230
Cordele	
WMJM	1490
Dalton	
WBLJ	1230

BROADCASTING STATIONS BY LOCATIONS

Gainesville
WGGA 1240

Griffin
WKEU 1450

La Grange
WLAG 1240

Macon
WBML 1240
WBMZ 940

Moultrie
WMGA 1400

Rome
WRGA 1490

Savannah
WSAV 1340
WTOC 1290

Thomasville
WPAX 1240

Toccoa
WRLC 1450

Valdosta
WGOV 1450

Waycross
WAYZ 1230

West Point
WDAK 1340

HAWAII

Hilo
KHBC 1230

Honolulu
KGMB 590
KGU 760
KHON 1310

Lihue
KTOH 1490

IDAHO

Boise
KIDO 1380

Idaho Falls
KID 1350

Lewiston
KRLC 1400

Nampa
KFXD 1230

Pocatello
KSEI 930

Twin Falls
KTFI 1270

Wallace
KWAL 1450

ILLINOIS

Aurora
WMRO 1280

Bloomington
WJBC 1230

Cairo
WKRO 1490

Carthage
WCAZ 1080

Champaign
WDWS 1400

Chicago
WAAP 950
WBBM 780
WCBD 1110
WCFL 1000

WCRW 1240
WEDC 1240
WENR 890
WGES 1390
WGN 720
WJJD 1160
WLS 890
WMAQ 670
WMBL 1110
WSBC 1240

Cicero
WHFC 1450

Danville
WDAN 1490

Decatur
WSOY 1340

East St. Louis
WTMV 1490

Galesburg
WGIL 1400

Harrisburg
WERQ 1240

Herrin
WJPF 1340

Joliet
WCLS 1340

Peoria
WMBD 1470

Quincy
WTAD 930

Roc. ford
WROK 1440

Rock Island
WHBF 1270
WCBS 1450
WTAX 1240

Tuscola
WDZ 1050

Urbana
WILL 580

INDIANA

Anderson
WHBU 1240

Elkhart
WTRC 1340

Evansville
WEOA 1400
WGBF 1280

Fort Wayne
WGL 1450
WOWO 1190

Gary
WIND 560

Hammond
WHIP 1520
WTOB 1230

Indianapolis
WFBM 1260
WIBC 1070
WIRE 1430
WISH 1310

Kokomo
WKMO 1400

Muncie
WLBC 1340

New Albany
WGRC 1400

Richmond
WKBV 1490

South Bend
WSBT 960

Terre Haute
WBOW 1230

Vincennes
WAOV 1450

West Lafayette
WBAA 920

IOWA

Ames
WOI 640

Boone
KFGQ 1400

Burlington
KBUR 1490

Cedar Rapids
WMT 600

Davenport
WOC 1450

Decorah
KWLC 1240

Des Moines
KRNT 1350
KSO 1460
WHO 1040

Dubuque
KDTH 1370
WKB 1490

Fort Dodge
KFVD 1490

Iowa City
WSUI 910

Marshalltown
KFJB 1230

Mason City
KGLO 1300

Ottumwa
KBLZ 1240

Shenandoah
KFNF 920
KMA 960

Sioux City
KSCI 1360
KTRI 1450

KANSAS

Atchinson
KVAK 1450

Coffeyville
KGGF 690

Dodge City
KGNO 1370

Emporia
KTSW 1400

Garden City
KIUL 1240

Great Bend
KVG 1400

Hutchinson
KWBG 1450

Kansas City
KCKN 1340

Lawrence
KFKU 1250
WREN 1250

Manhattan
KSAC 580

Pittsburg
KOAM 810

Salina
KSAL 1150

Topeka
WBW 580

Wichita
KANS 1240
KFBI 1070
KFH 1330

KENTUCKY

Ashland
WCMI 1340

Bowling Green
WLB 1340

Harlan
WHLN 1450

Hopkinsville
WHOP 1230

Lexington
WLAP 1450

Louisville
WAVE 970
WHAS 840
WTNN 1240

Owensboro
WOMI 1490

Paducah
WPAD 1450

LOUISIANA

Alexandria
KALB 1240

Baton Rouge
WJBO 1150

Lafayette
KVOL 1340

Lake Charles
KPLC 1490

Monroe
KMLB 1230

New Orleans
WDSU 1280
WIBW 1230
WMOE 1450
WSMB 1350
WWL 870

Shreveport
KRMD 1340
KTBS 1480
KWKH 1130

MAINE

Augusta
WROD 1400

Bangor
WARI 1230
WLRZ 620

Lewiston
WCOU 1240

Portland
WCSH 970
WGAN 560

Presque Isle
WAGM 1450

MARYLAND

Baltimore
WBAL 1090

WCAO 600
WCBM 1400
WFBR 1300
WITH 1230

Cumberland
WTBO 820

Frederick
WFMD 930

Hagerstown
WJEJ 1240

Salisbury
WBOC 1490

MASSACHUSETTS

Boston
WAAB 1440
WBZ 1030
WCOP 1150
WEEI 590
WHDH 850
WMEX 1510
WNAC 1260
WORL 950

Fall River
WSAB 1480

Greenfield
WHAU 1240

Holyoke
WHYN 1400

Hyannis
WOCB 1240

Lawrence
WLAW 680
WLLH 1400

Lowell
WLLH 1400

New Bedford
WNBH 1340

Pittsfield
WBRK 1340

Salem
WESX 1230

Springfield
WBZA 1030
WMAS 1450
WSPR 1270

Worcester
WMAW 1230
WORC 1310
WTAG 580

MICHIGAN

Battle Creek
WELI 1400

Bay City
WBCM 1440

Calumet
WHDF 1400

Detroit
WIBK 1490
WLB 1400
WTR 760
WJH 950
WXYZ 1270

East Lansing
WKAR 870

Escanaba
WDAR 1490

BROADCASTING STATIONS BY LOCATIONS

Flint
WFDF 910

Grand Rapids
WASH 1300
WGRB 1230
WLAW 1340
WOOD 1300

Ironwood
WJ

Jackson
WIBM 1450

Kalamazoo
WKZO 590

Lansing
WJIM 1240

Lapeer
WMPG 1230

Marquette
WDMJ 1340

Muskegon
WKBZ 1490

Pontiac
WCAR 1130

Port Huron
WHL5 1450

Royal Oak
WEXL 1340

Saginaw
WHAL 980
WSAM 1230

Sault Ste. Marie
W500 1230

Traverse City
WTCM 1400

MINNE-SOTA

Albert Lea
KATE 1450

Duluth
KDAL 1490
WEBC 1320

Fergus Falls
KGDE 1230

Hibbing
WMFG 1240

Mankato
KYSM 1230

Minneapolis
WCCO 830
WDGY 1130
WLB 770
WLOL 1330
WTCN 1280

Moorhead
KV0X 1340

Northfield
WCAL 770

Rochester
KROC 1340

St. Cloud
KFAM 1450

St. Paul
KSTP 1500
WMIN 1400

Virginia
WHLB 1400

Willmar
KWLM 1340

Winona
KWNO 1230

MISSIS-SIPPI

Columbus
WCBI 1400

Greenville
WJPR 1340

Greenwood
WGRM 1240

Gulfport
WGCM 1240

Hattiesburg
WFOR 1400

Jackson
WJDN 1300
W5LI 1450

Laurel
WAML 1340

McComb
WSKB 1230

Meridian
WCOC 910

Vicksburg
WQBC 1390

MISSOURI

Cape Girardeau
KFVS 1400

Clayton
KFUO 850

Columbia
KFUR 1400

Hannibal
KHMO 1340
Jefferson City
KWOS 1340

Joplin
WMBH 1450

Kansas City
KCMO 1480
KITE 1500
KMBC 980
WDAF 610
WHB 880

Poplar Bluff
KWOC 1340

St. Joseph
KFEQ 680

St. Louis
KMOX 1120
KSD 550
KWK 1380
KNOK 630
WEV 770
WIL 1230

Sedalia
KDRO 1490

Springfield
KGBX 1260
KWTO 560

MONTANA

Billings
KGHL 790

Bozeman
KRBM 1450

Butte
KGIR 1370

Great Falls
KFBB 1310

Helena
KPPA 1240

Kalispell
KGEZ 1340

Miles City
KRJF 1340

Missoula
KGVO 1290

Wolf Point
KGCX 1480

NEBRASKA

Fremont
KORN 1400

Grand Island
KMMJ 750

Hastings
KHAS 1230

Kearney
KGFV 1340

Lincoln
KFAB 780
KFOR 1240

Norfolk
WJAG 1090

North Platte
KGNF 1460

Omaha
KOIL 1290
KONB 1490
KOWH 660
WOW 590

Scottsbluff
KGKY 1490

NEVADA

Las Vegas
KENO 1400
KFUN 1450

Reno
KOH 630

NEW HAMPSHIRE

Keene
WKNE 1290

Laconia
WLNH 1340

Manchester
WFEA 1370
WMUR 610

Portsmouth
WHEB 750

NEW JERSEY

Asbury Park
WCAP 1310

Atlantic City
WBAB 1400
WFPG 1450

Bridgeton
WSNJ 1240

Camden
WCAM 1310

Jersey City
WAAT 970
WHOM 1480

Newark
WHBI 1280

Paterson
WPAT 930

Red Bank
WBRB 1240

Trenton
WTNJ 1310

Zarephath
WAWZ 1380

NEW MEXICO

Albuquerque
KQGM 1260
KOB 1030

Carlsbad
KAVE 1240

Clovis
KICA 1400

Gallup
KAWM 1490

Hobbs
KWEW 1490

Roswell
KGFL 1400

Santa Fe
KVSF 1340

NEW YORK

Albany
WABY 1400
WOKO 1460

Auburn
WMBO 1340

Batavia
WBTB 1490

Binghamton
WBNF 1490

Brooklyn
WARD 1430
WBBC 1430
WBRR 1330
WCNV 1600
WVFW 1430

Buffalo
WBEN 930
WBNY 1400
WEBR 1340
WGR 550
WKBW 1520
WSVS 1400

Canton
WCAD 1250

Elmira
WENY 1230

Freeport
WGBB 1240

Ithaca
WHCU 870

Jamestown
WJTN 1240

Kingston
WKNY 1490

Newburgh
WGNV 1250

New York
WABC 880
WBNX 1380
WEAF 660
WEVD 1330
WHN 1050
WINS 1000
WJZ 770
WLTH 1430
WMCA 570
WNEW 1280
WNYC 830
WOR 710
WOV 1130
WQXR 1560

Niagara Falls
WHLD 1290

Ogdensburg
WSLB 1400

Olean
WHDL 1450

Plattsburg
WMFF 1340

Poughkeepsie
WKIP 1450

Rochester
WHAM 1180
WHEC 1460
WSAY 1240

Salina
WAGE 620

Saranac Lake
WNBZ 1320

Schenectady
WGY 810

Syracuse
WFBL 1390
WOLF 1490
WSYR 570

Troy
WHAZ 4330
WTRY 980

Utica
WIBX 1230

Watertown
WATN 1240
WWNY 1300

White Plains
WFAS 1240

Woodside
WWRL 1600

NORTH CAROLINA

Asheville
WISE 1400
WWNC 570

Charlotte
WBT 1110
WSOC 1240

Durham
WDNC 1490

Elizabeth City
WCNC 1400

Fayetteville
WFNC 1370

Gastonia
WGNC 1450

BROADCASTING STATIONS BY LOCATIONS

Goldsboro
 WGBR 1400
Greensboro
 WBIG 1470
Greenville
 WGTC 1490
Hickory
 WHKY 1400
High Point
 WMFR 1230
Kinston
 WFTC 1230
Raleigh
 WPTF 680
 WRAL 1240
Roanoke Rapids
 WCBT 1230
Rocky Mount
 WEDD 1450
Salisbury
 WSTP 1490
Wilmington
 WMFD 1400
Wilson
 WGTM 1340
Winston-Salem
 WATR 1310
 WSJS 600

NORTH DAKOTA

Bismarck
 KFYP 550
Devils Lake
 KDLR 1240
Fargo
 WDAY 970
Grand Forks
 KFJM 1440
Jamestown
 KRMC 1400
Mandan
 KGCU 1270
Minot
 KLPM 1390
Valley City
 KOVC 1490

OHIO

Akron
 WADC 1350
 WAKR 1500
 WJW 1240
Ashtabula
 WICA 970
Canton
 WHBC 1230
Cincinnati
 WCKY 1530
 WCPO 1230
 WKRC 550
 WLW 700
 WSAI 1360
 W8XO 700
Cleveland
 WCLE 610
 WGAR 1480

WHK 1420
WTAM 1100
Columbus
 WBNS 1460
 WCOL 1230
 WHKC 640
 WOSU 570
Dayton
 WHIO 1290
 WING 1410
Lima
 WLOK 1240
Mansfield
 WMAN 1400
Marion
 WMRN 1490
Portsmouth
 WPAY 1400
Springfield
 WIZE 1340
Steubenville
 WSTV 1340
Toledo
 WSPD 1370
 WTOL 1230
Youngstown
 WFMT 1450
 WKBN 570

OKLAHOMA

Ada
 KADA 1230
Ardmore
 KVSO 1240
Elk City
 KASA 1240
Enid
 KCRC 1390
Lawton
 KSWO 1150
Muskogee
 KBIX 1490
Norman
 WNAD 690
Oklahoma City
 KOCY 1340
 KOMA 1520
 KTOK 1400
 WKY 930
Okmulgee
 KHBG 1240
Ponca City
 WBBZ 1230
Shawnee
 KGFF 1450
Fulsa
 KOME 1340
 FTUL 1430
 KVOO 1170

OREGON

Albany
 KWIL 1240
Astoria
 KAST 1230
Baker
 KBKR 1490

Bend
 KBND 1340
Corvallis
 KOAC 550
Eugene
 KORE 1450
Grants Pass
 KUIN 1340
Klamath Falls
 KFFJ 1240
La Grande
 KIBM 1450
Marshfield
 KOOS 1230
Medford
 KMED 1440
Portland
 KALE 1330
 KBPS 1450
 KEX 1190
 KGW 670
 KOIN 970
 KWJJ 1080
 KNL 1450
Roseburg
 RRNR 1490
Salem
 KST M 1390
The Dalles
 KODL 1230

PENN-SYLVANIA

Allentown
 WCBA 1470
 WSAJ 1470
Altoona
 WFRG 1340
DuBois
 WCED 1230
Easton
 WEST 1400
Erie
 WFPC 1490
 WLEU 1450
Glenside
 WTRG 990
Greensburg
 WHJB 620
Grove City
 WSAJ 1340
Harrisburg
 WHP 1460
 WKBO 1230
Hazleton
 WAZL 1450
Johnstown
 WJAC 1400
Lancaster
 WGAL 1490
Lewistown
 WMRF 1490
New Castle
 WKST 1280
New Kensington
 WKPA 1150

Philadelphia
 KYW 1060
WCAU 1210
 WDAS 1400
 WFIL 560
 WHAT 1340
 WIP 610
 WPEN 950
 WTEL 1340
Pittsburgh
 KDKA 1020
 KOY 1410
 WCAE 1250
 WTAE 1320
 WWSW 1490
Reading
 WEEU 850
 WRAW 1340
Scranton
 WARM 1400
 WGBI 910
 WQAN 910
Sharon
 WPIC 790
Sunbury
 WKOK 1210
Uniontown
 WMB5 590
Wilkes-Barre
 WBAN 1240
 WBRK 1340
Williamsport
 WRAK 1400
York
 WORK 1350

PUERTO RICO

Mayaguez
 WPR4 790
Ponce
 WPAB 1370
 WPRP 1520
San Juan
 WKAO 620
 WNEL 1320
RHODE ISLAND
Pawtucket
 WFIC 1420
Providence
 WEAN 790
 WJAR 920
 WPRO 630

SOUTH CAROLINA

Anderson
 WAIM 1230
Charleston
 WCSC 1390
 WTMA 1250
Columbia
 WCOS 1400
 WIS 560

Florence
 WOLS 1230
Greenville
 WFBC 1330
 WMRC 1490
Greenwood
 WMDF 1450
Spartanburg
 WOPD 1400
 WSPA 950
Sumter
 WFIG 1350

SOUTH DAKOTA

Aberdeen
 KABR 1420
Brookings
 KFDY 790
Pierre
 KGFN 630
Rapid City
 KOBI 1400
 WCAT 1230
Sioux Falls
 KELO 1230
 KSOO 1140
Vermillion
 KUSD 920
Watertown
 KWAT 1240
Yankton
 WNAX 570

TENNESSEE

Bristol
 WOPT 1490
Chattanooga
 WAPO 1150
 WDEF 1400
 WDOD 1310
Cookeville
 WHUB 1400
Jackson
 WJTS 1390
Johnson City
 WJHL 910
Kingsport
 WKPT 1400
Knoxville
 WETR 1240
 WNOX 990
 WROL 620
Memphis
 WHBQ 1400
 WMC 790
 WMPS 1460
 WREC 600
Nashville
 WLAC 1510
 WSIX 1240
 WSM 650

BROADCASTING STATIONS BY LOCATIONS

TEXAS		Midland	Rutland	Pullman	WISCONSIN	
Abilene		KRLH 1450	WSYB 1490	KWSC 1250	Seattle	Appleton
KRBC 1450		Palestine	St. Albans	KEVR 1400	KEVR 1400	WHBY 1230
Amarillo		KNET 1450	WQDM 1420	KIRO 710	Ashland	WATW 1400
KFDA 1230		Pampa	WWSR 1420	KJR 1000	WEAU 1070	Fond du Lac
KGNC 1440		KPDN 1340	Waterbury	KOL 1300	KFIZ 1450	
Austin		Paris	WDEV 550	KOMO 950		
KNOW 1490		KPLT 1490		KRSC 1150		
KTBC 1150		Pecos		KTW 1250		
		KIUN 1400		KXA 770		
Beaumont		Port Arthur	VIRGINIA			
KFDM 560		KPAC 1250	Charlottesville	Spokane	Green Bay	
KRIC 1450		San Angelo	WCHV 1450	KFIO 1150	WTAQ 1360	
Big Spring		KGKL 1400	Danville	KFPY 920	Janesville	
KBST 1490		San Antonio	WBTM 1400	KGA 1510	WCLO 1230	
Brady		KABC 1450	Fredericksburg	KHQ 590	La Crosse	
KNEL 1490		KMAC 1400	WFVA 1290	Tacoma	WKBH 1410	
Brownsville		KONO 1400	Harrisonburg	KMO 1360	Madison	
KGFT 1490		KTSA 550	WSVA 550	KVI 570	WHA 970	
Brownwood		WOAI 1200	Lynchburg	KVAN 910	WBA 1310	
KBWD 1380		Sherman	WLVA 1230	Wenatchee	Manitowoc	
College Station		KRRV 910	Martinsville	KPQ 1490	WOMT 1240	
WTAW 1150		Sweetwater	WMVA 1450	KUJ 1420	Marinette	
Corpus Christi		KXOX 1240	Newport News	Walla Walla	WMAM 570	
KEYS 1490		Temple	WGH 1340	KIT 1280	Medford	
KRIS 1360		KTEM 1400	Norfolk	WEST VIRGINIA	WIGM 1490	
Corsicana		Texarkana	WTAR 790	Beckley	Milwaukee	
KAND 1340		KCMC 1450	Petersburg	WJLS 1240	WEMP 1340	
Dallas		Tyler	WPLD 1240	Bluefield	WISN 1150	
KRLD 1080		KGKB 1490	Richmond	WHIS 1440	WTMJ 620	
WFAA 820		Vernon	WBBL 1240	Charleston	Povnette	
WRR 1310		KVWC 1490	WMBG 1380	WCHS 580	WIBU 1240	
Denton		Victoria	WRNL 910	WGKY 1490	Racine	
KDNT 1450		KVIC 1340	WRVA 1140	Clarksburg	WRJN 1400	
Dublin		Waco	Roanoke	WBLK 1400	Rice Lake	
KFPL 1340		WACO 1450	WVBT 960	Fairmont	WJMC 1240	
El Paso		Weslaco	WVSL 1490	Huntington	Shebovgan	
KROD 600		WRGV 1290	Suffolk	WSAZ 980	WIIBL 1330	
KTSM 1380		Wichita Falls	WLPM 1450	Logan	Stevens Point	
Fort Worth		KWFT 620	Winchester	WLOG 1230	WLBI 930	
KFIZ 1270		UTAH			Superior	
KGKO 570		Cedar City	Winc 1400	WDSM 1230	Wausau	
WBAP 820		KSUB 1340	WASHINGTON	Farmont	WSAU 1400	
Galveston		Logan	Aberdeen	WMMN 920	Wisconsin Rapids	
KLUF 1400		KVNU 1230	KNRO 1340	Huntington	WFHR 1340	
Harlingen		Ogden	Bellingham	WLOG 1230	WYOMING	
KGBS 1240		KLO 1430	KVOS 1230	Morgantown	Casper	
Houston		Price	Centralia	WAWJ 1230	KDFN 1470	
KPRC 950		KEUB 1450	KELA 1470	Parkersburg	Cheyenne	
KTRH 1320		Provo	Everett	WPAR 1450	KFBC 1450	
KXYZ 1470		KOVO 1240	KRKO 1400	Welch	KYAN 1400	
Huntsville		Salt Lake City	Longview	WBRW 1340	Powell	
KSAM 1490		KDYL 1520	KWLK 1400	Wheeling	KPOW 1230	
Kilgore		KSL 1160	Olympia	WKWK 1400	Rock Springs	
KOCA 1240		KUTA 570	KGy 1240	WVVA 1170	KVRS 1400	
Laredo		VERMONT			Williamson	
KPAB 1490		Burlington		WBTH 1400	Sheridan	
Longview		WCAX 1230			KWYO 1400	
KFR0 1370						
Lubbock						
KFY0 1330						
Lufkin						
KRBA 1340						

BROADCASTING STATIONS BY LOCATIONS

CANADA

<p>ALBERTA</p> <p>Calgary CFAC 960 CFCN 1010 CFJ 1230</p> <p>Edmonton CFRN 1260 CFCA 930 CKUA 580</p> <p>Grande Prairie CFGP 1340</p> <p>Lethbridge CJOC 1400</p> <p style="text-align: center;">BRITISH COLUMBIA</p> <p>Chilliwack CHWK 1340</p> <p>Kamloops CFJC 910</p> <p>Kelowna CKOV 630</p> <p>Nelson CKLN 1450</p> <p>Prince Rupert CFPR 1240</p> <p>Trail CJAT 610</p> <p>Vancouver CBR 1130 CJOR 600 CKMO 1410 CKWX 980</p> <p>Victoria CFCT 1480</p> <p>MANITOBA</p> <p>Brandon CKX 1150</p> <p>Flin Flon CFAR 1400</p> <p>Winnipeg CJRC 630 CKY 990</p> <p style="text-align: center;">NEW BRUNSWICK</p> <p>Campbellton CKNB 1240</p> <p>Fredericton CFNB 550</p> <p>Moncton CKCW 1400</p> <p>Sackville CBA 1070</p> <p>St. John CHSJ 1150</p> <p style="text-align: center;">NOVA SCOTIA</p> <p>Glace Bay VAS 685</p>	<p>Halifax CHNS 960</p> <p>Sydney CJOB 1270</p> <p>Yarmouth CJLS 1340</p> <p style="text-align: center;">ONTARIO</p> <p>Brantford CKPC 1380</p> <p>Chatham CFCO 630</p> <p>Cobalt CKMC 1240</p> <p>Hamilton CHML 900 CKOC 1150</p> <p>Kenora CKCA 1450</p> <p>Kingston CFRC 1490</p> <p>Kirkland Lake CJKL 560</p> <p>London CFPL 1570</p> <p>North Bay CFCH 1230</p> <p>Ottawa CBO 910 CKCO 1340</p> <p>Owen Sound CFOS 1406</p> <p>Port Arthur CKPR 580</p> <p>Prescott CFLC 1450</p> <p>St. Catharines CKTB 1230</p> <p>Sault Ste. Marie CJIC 1490</p> <p>Stratford CJCS 1240</p> <p>Sudbury CKSO 790</p> <p>Timmins CKGB 1470</p> <p>Toronto CBL 740 CBY 1010 CFRB 860 CKCL 580</p> <p>Windsor CKLW 800</p> <p>Wingham CKNX 1230</p> <p style="text-align: center;">PRINCE EDWARD ISLAND</p> <p>Charlottetown CFCY 630 CHCK 1340</p>
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Summerside
CHGS 1480

QUEBEC

<p>Chicoutimi CBJ 1240</p> <p>Hull CKCH 1240</p> <p>Montreal CBF 690 CBM 940 CFCF 600 CHLP 1490 CKAC 730</p> <p>New Carlisle CHNC 610</p> <p>Quebec CBV 980 CHRC 1400 CKCV 1340</p> <p>Rimouski CJBR 900</p> <p>Rouyn CKRN 1400</p>	<p>Ste. Anne de la Pocatiere CHIB 1230</p> <p>Sherbrooke CHLT 1240</p> <p>Three Rivers CHLN 1450</p> <p>Val d'Or CKVD 1230</p> <p style="text-align: center;">SASKATCHEWAN</p> <p>Moose Jaw CHAB 1220</p> <p>Prince Albert CKBI 900</p> <p>Regina CJRM 980 CKCK 620</p> <p>Saskatoon CFQC 600</p> <p>Watrous CBK 540</p> <p>Yorkton CJGN 1460</p>
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<p>CMCO 1230</p> <p>CMCQ 1420</p> <p>CMCU 1190</p> <p>CMCR 1580</p> <p>CMCW 1230</p> <p>CMCX 1290</p> <p>CMCY 590</p> <p>CMK 740</p> <p>CMOA 1360</p> <p>CMOX 1490</p> <p>CMQ 690</p> <p>CMW 550</p> <p>CMX 1010</p> <p>CMZ 630</p>	<p>Holguin CMKT 1490 CMKO 1220 CMKV 600</p> <p>Jovellanos CMGN 1310</p> <p>Manzanillo CMKE 1320 CMKM 560</p> <p>Matanzas CMGF 1246 CMGH 1440</p>
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CUBA

<p>Artemisa CMAX 830</p> <p>Banes CMKX 1090</p> <p>Caibarien CMHD 1560</p> <p>Camaguey CMJA 1060 CMJC 1340 CMJE 1230 CMJF 1300 CMJK 620 CMJL 920 CMJN 740 CMJW 1400</p> <p>Cardenas CMGE 1470</p> <p>Ciego de Avila CMJH 1370 CMJI 1440 CMJM 1270 CMJO 1470</p> <p>Cienfuegos CMHJ 1350 CMHN 1450 CMHX 1480</p>	<p>Cruces CMHK 1380</p> <p>Guanajay CMAC 1370</p> <p>Guantanamo CMKH 1130 CMKS 900</p> <p>Havana CMBC 790 CMBD 1420 CMBF 1260 CMBG 1330 CMBH 1540 CMBL 860 CMBQ 1150 CMBR 1330 CMBX 1390 CMBY 1110 CMBZ 950 CMC 1360 CMCA 1490 CMCB 1390 CMCF 910 CMCG 1460 CMCH 1290 CMCJ 1580 CMCK 980 CMCM 1060</p>
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<p>Nuevitas CMJQ 1580</p> <p>Palma Soriano CMKZ 1430</p> <p>Pinar del Rio CMAB 1450 CMAN 1300</p> <p>Placetas CMHP 1320</p> <p>Puerto Padre CMKY 1350</p> <p>Sagua la Grande CMHA 1280</p> <p>Sancti Spiritus CMIB 1410</p> <p>Santa Clara CMII 570 CMHN 960 CMHO 1250 CMHQ 810</p> <p>Santiago CMKC 1250 CMKD 1290 CMKG 1050 CMKN 930 CMKQ 1460 CMKR 1390 CMKU 970 CMKW 1000</p> <p>Trinidad CMIT 990</p>

BROADCASTING STATIONS BY LOCATIONS

MEXICO

AGUAS-CALIENTES

Aguascalientes
XEBI 1360
XEJX 1450

BAJA CALIFORNIA

Ensenada
XEPF 1400
Mexicali
XEA 1340
XEAO 910
XECL 990

Rosarito Beach
XERB 1090
Tijuana
XEAC 690
XEAU 1470
XEBG 1010
XEC 1310
XEGM 950
XEMO 860
XEON 1140
XERT 1440

CAMPECHE

Campeche
XEA 1370

CHIAPAS

Tuxtla Gutierrez
XEXJ 1280

CHIHUAHUA

Camargo
XEDN 1270
Chihuahua
XEBU 1260
XEBW 1280
XEFI 1440
XEJK 1340
XEM 1390

Juarez
XEF 1400
XEFV 1270
XEFJ 970
XEP 1300
XEWG 1360

Parral
XEAT 1250
XEJR 1490

COAHUILA

Nueva Rosita
XEMJ 920
Piedras Negras
XEMU 580
Sabinas
XEBX 610

Saltillo
XES 1330
XESJ 1420
XEXU 1490
Torreon
XEBP 1260
XEBQ 1450
XEDF 1400
XEOH 600
XETB 1350

Villa Acuna
XEAB 1600
XEAQ 1430
XEDH 1340

COLIMA

Colima
XERL 1280

DISTRITO FEDERAL

Mexico
XEA 1320
XEB 1220
XERS 1440
XEBZ 660
XEDA 1290
XEDP 750
XEFO 1110
XETP 1110
XEK 970
XEL 1260
XELA 830
XELZ 1440
XEMC 1590
XEMX 1380
XEN 600
XENK 620
XEOF 560
XEPH 590
XEPX 1000
XEO 940
XEOK 1350
XERC 790
XERH 1500
XESM 1470
XEST 1060
XEV 900
XEXX 860

DURANGO

Durango
XEE 1280

GUANAJUATO

Irapuato
XEBQ 1330
Leon
XEFM 1270
XERZ 550
Silao
XEW 1400

GUERRERO

Acapulco
XEKJ 1400

JALISCO

Guadalajara
XEAD 1310
XED 680
XEDK 1250
XEGT 1490
XEHK 960
XEHU 1370
XELW 1340
XELM 1400
Guzman
XEB 1270

MEXICO

Texcoco
XEXE 1450
Toluca
XECH 1490
XENS 1340

MICHOACAN

Morelia
XEB 1270
XEL 1400
XESF 600
Zamora
XEGC 1450

NAYARIT

Tepec
XERK 1450
XENT 980

NUEVO LEON

Monterrey
XEA 1570
XEB 630
XEG 1050
XEH 1250
XEMG 1310
XEMR 1370
XET 900
XEX 1280

OAXACA

Oaxaca
XENH 1270

PUEBLA

Puebla
XECD 1170
XEHR 1090

SAN LUIS POTOSI

San Luis Potosi
XEBM 1260
XECZ 1430
XENQ 1400

SINALOA

Culiacan
XEGF 1300
XESA 1360

Los Mochis
XECF 1340
XEOX 1280

Mazatlan
XEBL 1260
XEDS 1420
XERJ 610

SONORA

Agua Prieta
XERY 1410

Cananea

XEFO 980
XEJS 1150

Guaymas
XEDR 1490

Hermosillo
XEBH 920
XEO 960

Magdalena
XEDJ 1450

Naco
XETM 1350

Navojoa
XEAJ 1400
XEDL 1270

Nogales
XEAF 1370
XEOX 1010
XESY 1320

Obregon
XEAP 1290

San Luis Rio Colorado
XEY 1450

TAMAULIPAS

Madero
XETR 1490

Matamoros
XEA 1400
XEO 970
XEXP 1450

Nuevo Laredo
XEBK 1340
XEDF 1260

XEFE 960
XELC 1410
XELF 1380
XELH 1460
XELJ 790
XENT 1140

Reynosa
XEAZ 1390

Tampico
XEA 1340
XEFW 810
XES 1300
XETU 1460

Victoria
XEBJ 1450

VERA CRUZ

Coatzacoalcos
XEFZ 1340

Cordoba
XEA 1280
XECW 1340

Jalapa
XEA 1400

Minatitlan
XEDW 1260

Orizaba
XEP 1450

Veracruz
XEB 1310
XEF 1250
XEU 960
XEF 1490

YUCATAN

Merida
XEF 1340
XEFK 1450
XEME 1270
XEMH 1400
XEZ 600

Progreso
XEOK 1430

ZACATECAS

Fresnillo
XEMA 1340
Zacatecas
XELK 1280

NORTH AMERICA

BAHAMAS

Nassau
ZNS 790

COSTA RICA
Heredia
TI-NRH 725

San Jose

TIEP 830
TIGH 690
TIGPH 600
TIGPH2 1225
TING 750
TIPG 625

BROADCASTING STATIONS BY LOCATIONS

DOMINI- CAN REPUBLIC

Ciudad	
Trujillo	
HIN	1090
RIX	950
HIZ	1350
HISQ	1470

EL SALVADOR

San Salvador	
YSS	640

GUATE- MALA

Guatemala	
City	
TGW	1520
TGI	1310
Quezalten- ango	
TGQ	1450

HAITI

Leogane	
HIK	1080
Port-au- Prince	
HHW	1230

HONDURAS

Tegucigalpa	
HRN	1450

MIQUELON

St. Pierre	
FQN	609

NEW- FOUND- LAND

St. John's	
VOGY	840
VONF	640
VOWR	700

NICARA- GUA

Managua	
YNOW	1230
YNPH	660

PANAMA

Colon	
HOK	640

SOUTH AMERICA

VENEZUE- LA

Barcelona	
YV6RE	1080

Barquisimeto	
YV3RA	1270
YV3RE	1470

Bolivar	
YV6RA	1400

Caracas

YVKA	630
YV5RA	960
YV5RB	790
YV5RG	1010
YV5RH	720
YV5RI	590
YV5RL	1160

Coro	
YVIRW	1370

La Guaira	
YV5RZ	1050

Maracaibo	
YVIRA	1500
YVIRC	1400
YVIRD	1150
YVIRF	1120
YVIRK	1250

Maracay	
YV4RD	1150
YV4RL	1430

Puerto Cabello	
YV4RR	1490

San Cristobal	
YV2RB	980

Valencia	
YV4RA	1350

BROADCASTING STATIONS BY FREQUENCIES

(Concluded from Page 80)

1590 kcs. (188.6 m.)

KITE	M	1000
WAKR	BP	1000
WALB	P	1000
WBRY	CM	5000
XEMC	....	5000

a	[]
z	Kansas City, Mo., First Natl. Television, Inc.
z	Akron, Ohio, Summit Radio Corp.
z	Albany, Ga., Herald Pub. Co.
a	Waterbury, Conn., American-Republican, Inc.
z	Mexico City, D. F.

1600 kcs. (187.4 m.)

KPMC	M	1000
WCNW	2	500
WWRL	2	500
XEAB	....	5000

a	[]
a	Bakersfield, Calif., Pioneer Mercantile Co.
a	Brooklyn, N. Y., Arthur Faske
a	Woodside, N. Y., Long Island Brdstg. Corp.
z	Villa Acuna, Coah.

WMI on 6480 kcs. was heard giving weater reports at 10:10 p.m. (Cadorath—Man.)

WNBI on 11890 kcs. now under a special grant on a temporary basis subject to no complaints by any station having a prior claim to the channel. WNBI's assigned frequency is 11820 kcs. (RX)

WRUL relinquishes its 15250 kcs. channel to WLWO while acquiring 15350 kcs., and 17750 kcs. (RX) WRUL heard testing its new transmitter at Scituate from 9:30-9:45 p.m.

Verification is a white card with blue print. (Laudansky—Mass.)

WRUW granted permit to increase power from 20 kw. to the required 50 kw. WRUW also granted the use of 15350 kcs., and 17750 kcs., while relinquishing its assignment on 15250 kcs. (RX)

WWV (5000 kcs.) the Bureau of Standards station was burned to the ground on November 7. WWV now broadcasting unmodulated signals. Call is sent every half-hour in code. (Wells—Ont., Woolacott—N. Y.)

BROADCASTING STATIONS BY CALL LETTERS

For power and network affiliations, see the list of stations by frequencies.

The space under the call letters may be used for logging or checking.

CBA	1070	CHGS	1480	CKCW	1400	CMBX	1390	CMHP	1320	CMKW	1000
CBF	690	CHLN	1450	CKGB	1470	CMBY	1110	CMHQ	810	CMKX	1090
CBJ	1240	CHLP	1490	CKLN	1450	CMBZ	950	CMHT	990	CMKY	1350
CBK	540	CHLT	1240	CKLW	800	CMC	1360	CMHX	1480	CMKZ	1430
CBL	740	CHML	900	CKMC	1240	CMCA	1490	CMJA	1060	CMOA	1360
CBM	940	CHNC	610	CKMO	1410	CMCB	1390	CMJC	1340	CMOX	1490
CBO	910	CHNS	960	CKNB	1240	CMCF	910	CMJE	1230	CMQ	690
CBR	1130	CHRC	1400	CKNX	1230	CMCG	1460	CMJF	1300	CMW	550
CBV	980	CHSJ	1150	CKOC	1150	CMCH	1290	CMJH	1370	CMX	1010
CBY	1010	CHWK	1340	CKOV	630	CMCJ	1580	CMJI	1440	CMZ	630
CFAC	960	CJAT	610	CKPC	1380	CMCK	980	CMJK	620	FQN	609
CFAR	1400	CJBR	900	CKPR	580	CMCM	1060	CMJL	920	HHK	1080
CFCF	600	CJCA	930	CKRN	1400	CMCO	1230	CMJM	1270	HHW	1230
CFCH	1230	CJCB	1270	CKSO	790	CMCQ	1420	CMJN	740	HIN	1090
CFCN	1010	CJCJ	1230	CKTB	1230	CMCR	1580	CMJO	1470	HIX	950
CFCO	630	CJCS	1240	CKUA	580	CMCU	1190	CMJQ	1580	HIZ	1350
CFCT	1480	CJGX	1460	CKVD	1230	CMCW	1230	CMJW	1400	H18Q	1470
CFCY	630	CJIC	1490	CKWX	980	CMCX	1290	CMK	740	HOK	640
CFGP	1340	CJKL	560	CKX	1150	CMCY	590	CMKC	1250	HRN	1450
CFJC	910	CJLS	1340	CKY	990	CMGE	1470	CMKD	1290	KABC	1450
CFLC	1450	CJOC	1400	CMAB	1450	CMGF	1240	CMKE	1320	KABR	1420
CFNB	550	CJOR	600	CMAC	1370	CMGH	1440	CMKF	1490	KADA	1230
CFOS	1400	CJRC	630	CMAN	1300	CMGN	1310	CMKG	1050	KALB	1240
CFPL	1570	CJRM	980	CMAX	830	CMHA	1280	CMKH	1130	KALE	1330
CFPR	1240	CKAC	730	CMBC	790	CMHB	1410	CMKM	560	KAND	1340
CFQC	600	CKBI	900	CMBD	1420	CMHD	1560	CMKN	930	KANS	1240
CFRB	860	CKCA	1450	CMBF	1260	CMHI	570	CMKO	1220	KARK	920
CFRC	1490	CKCH	1240	CMBG	1330	CMHJ	1350	CMKQ	1460	KARM	1340
CFRN	1260	CKCK	620	CMBH	1540	CMHK	1380	CMKR	1390	KASA	1240
CHAB	1220	CKCL	580	CMBL	860	CMHM	1450	CMKS	900	KAST	1230
CHCK	1340	CKCO	1340	CMBQ	1150	CMHN	960	CMKU	970	KATE	1450
CHGB	1230	CKCY	1340	CMBS	1330	CMHO	1250	CMKV	600	KAVE	1240

BROADCASTING STATIONS BY CALL LETTERS

KAWM	1490	KEYS	1490	KFRO	1370	KGHF	1350	KIEV	870	KNOW	1490
KBIX	1490	KFAB	780	KFRU	1400	KGHI	1230	KINY	1460	KNX	1070
KBIZ	1240	KFAC	1330	KFSD	600	KGHL	790	KIRO	710	KOA	850
KBKR	1490	KFAM	1450	KFSG	1150	KGIF	1370	KIT	1280	KOAC	550
KBND	1340	KFAR	610	KFUN	1450	KGIW	1450	KITE	1590	KOAM	810
KBPS	1450	KFBB	1310	KFUO	850	K6KB	1490	KIUL	1240	KOB	1030
KBST	1490	KFBC	1450	KFVD	1020	KGKL	1400	KIUN	1400	KOBH	1400
KSTM	1230	KFBI	1070	KFVS	1400	KGKO	570	KIUP	1400	KOCA	1240
KBUR	1490	KFBK	1530	KFWB	980	KGKY	1490	KJBS	1100	KOCY	1340
KBWD	1380	KFDA	1230	KFXD	1230	KGLO	1300	KJR	1000	KODL	1230
KCKN	1340	KFDM	560	KFXJ	1230	KGLU	1450	KLBM	1450	KOH	630
KCMC	1450	KFDY	790	KFXM	1240	KGMB	590	KLCN	1320	KOIL	1290
KCMO	1480	KFEL	950	KFYO	1340	KGNC	1440	KLO	1430	KOIN	970
KCRC	1390	KFEQ	680	KFYR	550	KGNF	1460	KLPM	1390	KOKO	1400
KCRJ	1340	KFGQ	1400	KGA	1510	KGNO	1370	KLRA	1420	KOL	1300
KDAL	1490	KFH	1330	KGB	1360	KGO	810	KLS	1310	KOMA	1520
KDB	1490	KFI	640	KGBS	1240	KGU	760	KLUF	1400	KOME	1340
KDFN	1470	KFIO	1150	KGBU	930	KGVO	1290	KLX	910	KOMO	950
KDKA	1020	KFIZ	1450	KGBX	1260	KGW	620	KLZ	560	KONB	1490
KDLR	1240	KFJB	1230	KGCU	1270	KGY	1240	KMA	960	KONO	1400
KDNT	1450	KFJI	1240	KGCS	1480	KHAS	1230	KMAC	1400	KOOS	1230
KDON	1240	KFJM	1440	KGDE	1230	KHBC	1230	KMBC	980	KORE	1450
KDRO	1490	KFJZ	1270	KGDM	1130	KHBG	1240	KMED	1440	KORN	1400
KDTH	1370	KFKA	910	KGEK	1230	KHJ	930	KMJ	580	KOTN	1490
KDYL	1320	KFKU	1250	KGER	1390	KHMO	1340	KMLB	1230	KOYC	1490
KECA	790	KFMB	1450	KGEZ	1340	KHON	1310	KMMJ	750	KOVO	1240
KELA	1470	KFNF	920	KGFF	1450	KHQ	590	KMO	1360	KOWH	660
KELD	1400	KFOR	1240	KGFI	1490	KHSL	1290	KMOX	1120	KOY	550
KELO	1230	KFOX	1280	KGFJ	1230	KHUB	1340	KMPC	710	KPAB	1490
KENO	1400	KFPL	1340	KGFL	1400	KICA	1400	KMTR	570	KFAC	1250
KERN	1410	KFPW	1400	KGFW	1340	KID	1350	KMYC	1450	KPDN	1340
KEUB	1450	KFPY	920	KGFX	630	KIDO	1380	KMYR	1340	KPFA	1240
KEVR	1400	KFQD	790	KGGF	690	KIDW	1450	KNEL	1490	KPHO	1230
KEX	1190	KFRC	610	KGGM	1260	KIEM	1480	KNET	1450	KPLC	1490

BROADCASTING STATIONS BY CALL LETTERS

KPLT	1490	KSAL	1150	KTW	1250	KWIL	1240	TING	750	WATN	1240
KPMC	1600	KSAM	1490	KUIN	1340	KWJB	1240	TIPG	625	WATR	1320
KPO	680	KSAN	1450	KUJ	1420	KWJJ	1080	TIRCC	1200	WATW	1400
KPOF	910	KSCJ	1360	KUOA	1290	KWK	1380	TI4NRH	725	WAVE	970
KPOW	1230	KSD	550	KUSD	920	KWKH	1130	VAS	685	WAWZ	1380
KPPC	1240	KSEI	930	KUTA	570	KWLC	1240	VOGY	840	WAYX	1230
KPQ	1490	KSFO	560	KVAK	1450	KWLK	1400	VONF	640	WAZL	1450
KPRC	950	KSL	1160	KVAN	910	KWLM	1340	VOWR	700	WBAA	920
KQV	1410	KSLM	1390	KVCV	1230	KWNO	1230	WAAB	1440	WBAB	1490
KQW	740	KSO	1460	KVEC	1230	KWOC	1340	WAAF	950	WBAL	1090
KRBA	1340	KSOO	1140	KVFD	1400	KWOS	1340	WAAT	970	WBAP	820
KRBC	1450	KSRO	1350	KVGB	1400	KWSC	1250	WABC	880	WBAX	1240
KRBM	1450	KSTP	1500	KVI	570	KWTO	560	WABI	1230	WBBC	1430
KRE	1400	KSUB	1340	KVIC	1340	KWYO	1400	WABY	1400	WBBL	1240
KRGV	1290	KSUN	1230	KVNU	1230	KXA	770	WACO	1450	WBBM	780
KRIC	1450	KSWO	1150	KVOA	1290	KXL	1450	WADC	1350	WBBR	1330
KRIS	1360	KTAR	620	KVOD	630	KXO	1490	WAGA	1480	WBBZ	1230
KRJF	1340	KTBC	1150	KVOE	1490	KXOK	1240	WAGE	620	WBCM	1440
KRKD	1150	KTBS	1480	KVOL	1340	KXRO	1340	WAGF	1400	WBEN	930
KRKO	1400	KTEM	1400	KVOO	1170	KXYZ	1470	WAGM	1450	WBHP	1230
KRLC	1400	KTFI	1270	KVOR	1300	KYA	1260	WAIM	1230	WBIG	1470
KRLD	1080	KTHS	1090	KVOS	1230	KYAN	1400	WAIR	1340	WBIR	1240
KRLH	1450	KTHC	920	KVOX	1340	KYCA	1490	WAJR	1230	WBLJ	1230
KRMC	1400	KTMS	1250	KVRS	1400	KYOS	1080	WAKR	1590	WBLK	1400
KRMD	1340	KTOH	1490	KVSF	1340	KYSM	1230	WALA	1410	WBML	1240
KRNR	1490	KTOK	1400	KVSO	1240	KYUM	1240	WALB	1590	WBNS	1460
KRNT	1350	KTRB	860	KVWC	1490	KYW	1060	WAML	1340	WBNX	1380
KROC	1340	KTRH	1320	KWAL	1450	TGQ	1450	WAOV	1450	WBNY	1400
KROD	600	KTRI	1450	KWAT	1240	TGW	1520	WAPI	1070	WBOC	1490
KROW	960	KTSA	550	KWBG	1450	TGI	1310	WAPO	1150	WBOW	1230
KROY	1240	KTSM	1380	KWEW	1490	TIEP	830	WARD	1430	WBRB	1240
KRRV	910	KTSW	1400	KWFC	1340	TIGH	690	WARM	1400	WBRC	960
KRSC	1150	KTUC	1400	KWFT	620	TIGPH	605	WASH	1300	WBRE	1340
KSAC	580	KTUL	1430	KWG	1230	TIGPH2	1225	WATL	1400	WBRK	1340

BROADCASTING STATIONS BY CALL LETTERS

WBRW	1340	WCMJ	1340	WDWS	1400	WFHR	1340	WGPC	1450	WHIS	1440
WBRY	1590	WCNC	1400	WDZ	1050	WFIG	1340	WGR	550	WHIZ	1240
WBT	1110	WCNW	1600	WEAF	660	WFIL	560	WGRB	1230	WHJB	620
WBTA	1490	WCOA	1370	WEAN	790	WFLA	970	WGRC	1400	WHK	1420
WBTH	1400	WCOC	910	WEAU	1070	WFMD	930	WGRM	1240	WHKC	640
WBTM	1400	WCOL	1230	WEBC	1320	WFMJ	1450	WGST	920	WHKY	1400
WBZ	1030	WCOP	1150	WEBQ	1240	WFNC	1370	WGTC	1490	WHLB	1400
WBZA	1030	WCOS	1400	WEBR	1340	WFOR	1400	WGTM	1340	WHLD	1290
WCAD	1250	WCOU	1240	WEDC	1240	WFOY	1240	WGY	810	WHLN	1450
WCAE	1250	WCOV	1240	WEED	1450	WFPG	1450	WHA	970	WHL5	1450
WCAL	770	WCPO	1230	WEEI	590	WFTC	1230	WHAI	1240	WHMA	1450
WCAM	1310	WCRW	1240	WEEU	850	WFTL	1400	WHAL	980	WHN	1050
WCAO	600	WCSC	1390	WELI	960	WFTM	1240	WHAM	1180	WHO	1040
WCAP	1310	WCSH	970	WELL	1400	WFVA	1290	WHAS	840	WHOM	1480
WCAR	1130	WDAE	1250	WEMP	1340	WGAC	1240	WHAT	1340	WHOP	1230
WCAT	1230	WDAF	610	WENR	890	WGAL	1490	WHAZ	1330	WHP	1460
WCAU	1210	WDAK	1340	WENY	1230	WGAN	560	WHB	880	WHUB	1400
WCAX	1230	WDAN	1490	WEOA	1400	WGAR	1480	WHBB	1490	WHYN	1400
WCAZ	1080	WDAS	1400	WERC	1490	WGAU	1340	WHBC	1230	WIBA	1310
WCBA	1470	WDAY	970	WEST	1400	WGBB	1240	WHBF	1270	WIBC	1070
WCBD	1110	WDBC	1490	WESX	1230	WGBF	1280	WHBI	1280	WIBG	990
WCBI	1400	WDBJ	960	WEVD	1330	WGBI	910	WHBL	1330	WIBM	1450
WCBM	1400	WDSO	580	WEW	770	WGBR	1400	WHBQ	1400	WIBU	1240
WCBS	1450	WDEF	1400	WEXL	1340	WGCM	1240	WHBU	1240	WIBW	580
WCBT	1230	WDEL	1150	WFAA	820	WGES	1390	WHBY	1230	WIBX	1230
WCCO	830	WDEV	550	WFAS	1240	WGGG	1240	WHCU	870	WICA	970
WCED	1230	WDGY	1130	WFBC	1330	WGH	1340	WHDF	1400	WICC	600
WCFL	1000	WFLP	1230	WFBG	1340	WGIL	1400	WHDH	850	WIGM	1490
WCHS	580	WDMJ	1340	WFBL	1390	WGKV	1490	WHDL	1450	WIL	1230
WCHV	1450	WDNC	1490	WFBM	1260	WGL	1450	WHEB	750	WILL	580
WCKY	1530	WDOD	1310	WFCI	1420	WGN	720	WHEC	1460	WILM	1450
WCLE	610	WDRC	1360	WFBR	1300	WGNC	1450	WHFC	1450	WINC	1400
WCLO	1230	WDSM	1230	WFDL	910	WGNV	1250	WHIO	1290	WIND	560
WCLS	1340	WDSU	1280	WFEA	1370	WGOV	1450	WHIP	1520	WING	1410

BROADCASTING STATIONS BY CALL LETTERS

WINN	1240	WJPF	1340	WLAP	1450	WMCA	570	WNEL	1320	WPER	1340
WJNS	1000	WJPR	1340	WLAV	1340	WMDF	1450	WNEW	1280	WPIC	790
WINX	1340	WJR	760	WLAW	680	WMEX	1510	WNLC	1490	WPID	1240
WIOD	610	WJRD	1230	WLB	770	WMFD	1400	WNOE	1450	WPRA	790
WIP	610	WJSV	1500	WLBC	1340	WMFF	1340	WNOX	990	WPRO	630
WIRE	1430	WJTN	1240	WLEU	1450	WMFG	1240	WNYC	830	WPRP	1520
WIS	560	WJW	1240	WLBL	930	WMFJ	1450	WOAI	1200	WPTF	680
WISE	1400	WJZ	770	WLBZ	620	WMFR	1230	WOC	1450	WQAM	560
WISH	1310	WKAQ	620	WELU	1450	WMGA	1400	WOCB	1240	WQAN	910
WISN	1150	WKAR	870	WLLH	1400	WMIN	1400	WOI	640	WQBC	1390
WITH	1230	WKAT	1360	WLNH	1340	WMJM	1490	WOKO	1460	WQDM	1420
WIZE	1340	WKBB	1490	WLOF	1230	WMMN	920	WOL	1260	WQXR	1560
WJAC	1400	WKBH	1410	WLOG	1230	WMOB	1230	WOLF	1490	WRAK	1400
WJAG	1090	WKBN	570	WLOK	1240	WMOG	1490	WOLS	1230	WRAL	1240
WJAR	920	WKBO	1230	WLOL	1330	WMPC	1230	WOMI	1490	WRAW	1340
WJAS	1320	WKBV	1490	WLPM	1450	WMPS	1460	WOMT	1240	WRBL	1230
WJAX	930	WKBW	1520	WLS	890	WMRC	1490	WOOD	1300	WRC	980
WJBC	1230	WKBZ	1490	WLTH	1430	WMRF	1490	WOPI	1490	WRDO	1400
WJBK	1490	WKEU	1450	WLVA	1230	WMRN	1490	WOR	710	WRDW	1490
WJBO	1150	WKIP	1450	WLW	700	WMRO	1280	WORC	1310	WREC	600
WJBW	1230	WKMO	1400	WMAL	630	WMSD	1450	WORD	1400	WREN	1250
WJBY	1240	WKNE	1290	WMAM	570	WMSL	1400	WORK	1350	WRGA	1490
WJDX	1300	WKNY	1490	WMAN	1400	WMT	600	WORL	950	WRJN	1400
WJEJ	1240	WKOK	1240	WMAQ	670	WMUR	610	WOSU	570	WRLC	1450
WJHL	910	WKPA	1150	WMAS	1450	WMVA	1450	WOV	1130	WRNL	910
WJHO	1400	WKPT	1400	WMAW	1230	WMWH	1450	WOW	590	WROK	1440
WJHP	1320	WKRC	550	WMAZ	940	WNAB	1450	WOWO	1190	WROL	620
WJIM	1240	WKRD	1490	WMBD	1470	WNAC	1260	WPAB	1370	WRR	1310
WJJD	1160	WKST	1280	WMBG	1380	WNAD	690	WPAD	1450	WRUF	850
WJLB	1400	WKWK	1400	WMBH	1450	WNAX	570	WPAR	1450	WRVA	1140
WJLS	1240	WKY	930	WMBI	1110	WNBC	1410	WPAT	930	WSAI	1360
WJMC	1240	WKZO	590	WMBO	1340	WNBF	1490	WPAX	1240	WSAJ	1340
WJMS	1450	WLAC	1510	WMBR	1400	WNBH	1340	WPAY	1400	WSAM	1230
WJNO	1230	WLAG	1240	WMBS	590	WNBZ	1320	WPEN	950	WSAN	1470
WJOB	1230	WLAK	1340	WMC	790						

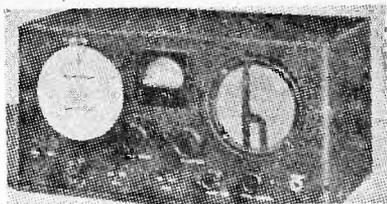
BROADCASTING STATIONS BY CALL LETTERS

WSAR	1480	WTAD	930	WWVA	1170	XEBU	1260	XEFO	1110	XELZ	1440
WSAU	1400	WTAG	580	WXYZ	1270	XEBW	1280	XEFQ	980	XEM	1390
WSAV	1340	WTAL	1340	W8XO	700	XEBX	610	KEFV	1270	XEMA	1340
WSAY	1240	WTAM	1100	XEA	1370	XEBZ	660	XEFW	810	XEMC	1590
WSAZ	930	WTAQ	1360	XEAA	1340	XEC	1310	XEFZ	1340	XEME	1270
WSB	750	WTAR	790	XEAB	1600	XECA	1340	XEG	1050	XEMG	1310
WSBC	1240	WTAW	1150	XEAC	690	XECD	1170	XEGC	1450	XEMH	1400
WSBT	960	WTAX	1240	XEAD	1310	XECF	1340	XEGF	1300	XEMJ	920
WSFA	1440	WTBO	820	XEAF	1370	XECH	1490	XEGM	950	XEMO	860
WSGN	1340	WTCM	1400	XEAG	1280	XECH	1490	XEGT	1490	XEMR	1370
WSIX	1240	WTCN	1280	XEAI	1320	XECL	990	XEH	1250	XEMU	580
WSJS	600	WTEL	1340	XEAJ	1400	XECW	1340	XEHB	1310	XEMX	1380
WSKB	1230	WTHT	1230	XEAM	1400	XECZ	1430	XEHK	960	XEN	690
WSLB	1400	WTIC	1080	XEAO	910	XED	680	XEHL	1370	XENK	620
WSLI	1450	WTJS	1390	XEAP	1290	XEDA	1290	XEHR	1090	XENT	1140
WSLS	1490	WTMA	1250	XEAQ	1430	XEDE	1400	XEI	1400	XEO	970
WSM	650	WTMC	1490	XEAT	1250	XEDF	1260	XEJ	970	XEOF	560
WSMB	1350	WTMJ	620	XEAU	1470	XEDH	1340	XEJA	1400	XEOH	600
WSNJ	1240	WTMV	1490	XEAW	1570	XEDJ	1450	XEJK	1340	XEOK	1430
WSOC	1240	WTNJ	1310	XEAZ	1390	XEDK	1250	XEJP	1150	XEON	1140
WSOD	1230	WTOC	1290	XEB	1220	XEDL	1270	XEJR	1490	XEOT	960
WSOY	1340	WTOL	1230	XEBA	1270	XEDN	1270	XEJS	1150	XEOX	1280
WSPA	950	WTRC	1340	XEBC	1270	XEDP	730	XEJX	1450	XEP	1300
WSPB	1450	WTRY	980	XEBG	1010	XEDR	1490	XEK	970	XEPF	1400
WSPD	1370	WTSP	1380	XEBH	920	XEDS	1420	XEKJ	1400	XEPH	590
WSPR	1270	WVFW	1430	XEBI	1360	XEDW	1260	XEKS	1330	XEPP	1450
WSPY	1490	WVDC	1450	XEBJ	1450	XEE	1280	XEL	1260	XEPX	1000
WSTV	1340	WWJ	950	XEBK	1340	XEF	1400	XELA	830	XEQ	940
WSUI	910	WWL	870	XEBL	1260	XEFB	630	XELC	1410	XEQK	1350
WSUN	620	WWNC	570	XEBM	1260	XEFC	1340	XELF	1380	XEQN	1010
WSVA	550	WWNY	1300	XEBO	1330	XEFE	960	XELH	1460	XERB	1090
WSVS	1400	WWRL	1600	XEBP	1260	XEFI	1440	XELJ	790	XERC	790
WSYB	1490	WWSR	1420	XEBQ	1450	XEFK	1450	XELK	1280	XERH	1500
WSYR	570	WWSW	1490	XEBS	1410	XEFM	1270	XELW	1340	XERJ	610

XERK	1450
XERL	1280
XERT	1440
XERY	1410
XERZ	550
XES	1300
XESA	1360
XESF	600
XESJ	1420
XESM	1470
XEST	1060
XESY	1320
XET	990
XETB	1350
XETF	1250
XETM	1350
XETR	1490
XETU	1460
XEU	960
XEW	900
XEWE	1400
XEWG	1360
XEX	1280
XEXE	1450
XEXF	1490
XEXH	1270
XEXJ	1280
XEXM	1400
XEXP	1450
XEXQ	1400
XEXS	1340
XEXT	980

XEXU	1490
XEXX	860
XEY	1450
XEZ	600
YNOW	1230
YNPH	660
YSS	640
YVKA	630
YVIRA	1500
YVIRC	1400
YVIRD	1150
YVIRF	1120
YVIRK	1250
YVIRW	1370
YV2RB	930
YV3RA	1270
YV3RE	1470
YV4RA	1350
YV4RD	1150
YV4RE	1400
YV4RL	1430
YV4RR	1490
YV5RA	960
YV5RB	790
YV5RG	1010
YV5RH	720
YV5RI	590
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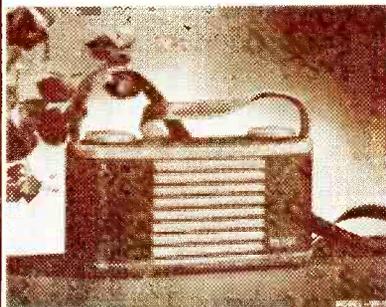
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