

RADIO IN DEX

The All-Wave Radio Log Authority

NSE

No. 142

MARCH - APRIL, 1941

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IN
CANADA
30c



PHONE ADAPTERS for QUIET RADIO

Do you listen in late at night while others are sleeping? Does your town require you to turn your radio down at a certain hour? If you are an apartment dweller, or a DXer, or if there is more than one radio in your home, equip your set with headphones and win the gratitude of your family and your neighbors.

We offer a phone adapter which will permit the use of headphones with your radio. It can be used with any radio set, regardless of make, and is fully guaranteed. Very easily installed.

TRIMM QUIET RADIO ATTACHMENT

This kit, including adapter and headphones, is made by the makers of the famous "Trimm" headphones. Headset and loud-speaker may be used separately or together.

Adapter with Trimm Featherweight Headphones—

\$13.50

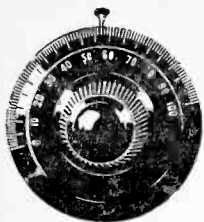
Adapter with Trimm Dependable Headphones—

\$5.95

Adapter with Acme DeLuxe Headphones—

\$4.40

THE RADEX PUBLISHING CO., Emerson, New Jersey



RADIO INDEX

Reg. U. S. Patent Office



SEVENTEENTH YEAR

MARCH 1, 1941

NO. 142

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

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

Owen P. Callin, *Amateur Editor*

Radexing with the Radexers

By RAY La ROCQUE

Contestants in the big RADEX championship prize contest seem to have been very active during the past couple of months. Let's glance at what our Radexers are doing in this division (broad-
 ... of Mont-
 ... up with 651
 ... of Rome, N.
 ... son Richards
 ... ster Stedman
 ... 43, and Nor-
 ... mford, Conn.
 ... with 241. Many
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 ... e midst of the
 ... s month! This,
 in the form of a letter from David
 Thomas of Proctorville, Ohio, sort of
 changes the standings in many divi-
 sions and creates new leaders in some
 of them. Here they are:

SUPREME SUPREMACY: For the total number of stations verified:
 Thomas—Ohio2393
 Becker—Ohio1350
 Botzum—Penna.1210
 Forestieri—N. Y.1028
 Horton—Mass. 981

BEGINNER'S SUPREMACY: Total number of stations verified by

DXers who have been verifying stations two years or less:

Richards—Ill.20 mo. 414
 Landry—P. Q.17 mo. 376
 Blinn—Kans.22 mo. 291
 Metcalf—Ohio12 mo. 269
 F. Lee—N. J.24 mo. 262

OLD TIMER'S SUPREMACY:

For the oldest dated verifications:
 Podall—Vt. Nov. 1916
 Barnhart—Pa. Feb. 1923
 Allen—Calif. Dec. 1923
 Thomas—Ohio Mar. 1924
 Jordon—Penna. Aug. 1924

S. A. SUPREMACY: For the most South American stations verified:

Reichardt—Mass.35
 Botzum—Penna.32
 Forestieri—N. Y.19
 Burnham—Mass.17
 Lippincott—Me. 9
 Barnes—Ill. 9

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)

T. A. SUPREMACY: For the most Trans-Atlantic stations verified:

Reichardt—Mass.	158
Botzum—Penna.	33
Lippincott—Me.	29
Forestieri—N. Y.	23
Burnham—Mass.	14

T. P. SUPREMACY: For the most trans-Pacific stations verified:

Reichardt—Mass.	84
Tarr—Wash.	50
Botzum—Penna.	25
Lippincott—Me.	18
Forestieri—N. Y.	7

CLUB BUTTONS—STATIONERY

In this issue we launch here and now our official campaign for club buttons, seals, and stationery for RADEX Club members. The tabulation of names in favor of the plan begins here and will continue in each issue until 100 members have signified their approval of the plan. When we have reached 100, then your Radexer in chief will deposit the list into the hands of the powers that be and say, "there, Mr. Boss, are one hundred members who want club emblems."

The names:

- 1.—John D. Long, Dalton, Ga.
- 2.—Ed Medric, Brooklyn, N. Y.
- 3.—Roy Woollacott, Rochester, N. Y.
- 4.—Henry Bennett, Collingswood, N. J.
- 5.—Robert Mc Connell, Middletown, Ohio
- 6.—Clarence L. Mustoe, Brady, Mont.
- 7.—Weston Richards, Zion, Ill.

PERSONALITIES:

Many happy returns of the day to Radexer Frederic T. Krueger, who was 72 years young last month! . . . Welcome back into the DX game to Bob Gilchrist who will be remembered for his association with the old Interstate Radio Association. . . A new Hallierafters Defiant graces the listening post of Malcolm Horlick of Youngstown, Ohio.

THIS 'N' DATA

Because they obtained their construction permits by a false statement

of ownership, WTMC in Ocala, Fla., and WDLF in Panama City, Fla. have had their licenses revoked by the F. C. C. . . . WSUN takes over the facilities of WFLA on 620 kcs., and WKGA in Tampa is awarded the choice call letters—WFLA! . . . After many long years of refusing, the FCC finally looks with favor upon granting WHDH full time on 830 kcs., much to the woe of KOA! . . . New call letters assigned: KBWD to Brownwood, Texas, WPER to DeLand, Fla., WHLN to Harlan, Ky., KPOW to Powell, Wyo., KSWO to Lawton, Okla., WKRO to Cairo, Ill., WMAW to Worcester, Mass., WRLC to Toccoa, Ga.

WAAB was granted a new license by the FCC, but was told to be a good boy hereafter, or else!! It seems WAAB has adopted a policy of broadcasting editorials urging the election of certain political candidates which is considered to be against good radio ethics. A station should remain constantly neutral in political matters. . . . A new station for Greenwood, S. C. with 250 watts on 1420 kc. . . .

BITS AND TIPS

From our readers! Glen Thorman wants to know if it's too late to enter the RADEX contest. It's never too late, Glen. . . . Say, can anyone help Vern Lee Gibbs, Rt. 5, Lexington, Ky. identify the all night Spanish speaking station on 1150 kcs! . . . For those who do not already know, G. L. Banta reminds listeners that the FCC checks provide excellent opportunity to boost your score in the RADEX contest. . . . N. Bernard Boonin, 246 So. Fairview Ave., Upper Darby, Penna. wants to know what station he heard in back of KTRH at 2:00 a.m.

WBAL took a month to answer then verified by air-mail. . . . There is no known "Northern California Network" according to Bill Gabriel, Jr., but the California Radio System is comprised of KSAN KFBK, KMJ, KERN, KFVB, KFOX, KFSD, KTMS, and KOH. This is for Wes-

ton Richards. . . Peter Landry up in Montreal wants to know about the Spanish speaking stations on the air Xmas morning on 1030 kcs. and 1160 kcs.

The following choice bits are from the same Pete Landry for all and sundry who care to make use of them : Stations on the air before 5:00 a.m. are WMCA, WIP, WPIC, WMMN, XERA, XENT, WCAR, WEDC, WOL, WNEW, WNOE, KXYZ, WWSW and WJBK.

On at 5:00 a.m. are: KYA, XEAW, WBT, WCAU, KUOA* and WHIS.

On at 5:30 a.m. are: WCHS, WIBW, WPTF, WJR, KFAB*, WHAS, WRNL, KMA, KDKA, XEG, WRVA, and WWVA.

On at 5:45 a.m. are WHIO, WNEL, and WCKY.

On at 6:00 a.m. are: WGR, WFIL, KWTO, WSYR, WEEI, WKZO*, WCAO, WICC, WROL, WPRO, CFRB, WOR, CKAC, WEAN, CKSO, KOAM*, CBL, WKAR, WWL, WLS, WBEN, WWJ, WSPA*, WDBJ, WAAT, WTRY*, WRC, WBZ, KNOX, WHN, CKLW, WTIC, WBAL, WTAM, WCOP*, WSAZ, WSAM, WNAC, WFBR, WSAI, WSPD, WFBL, WING WHIS, WBNS, WOOD, WBIG, WJSV, and KITE.

On at 6:30 a.m. are: WDEV, CHRC, CKCL, CFCF, KXOK*, WHKC, WSM, WEAJ, WGN, WSB, WJJZ, WEW, WTAR, WGY, WBAP, WHDH, WABC, WHB*, CBF, CBM, KMOX, CHSJ, WAPI, WHAM, WMAZ, CKCH (6:40), WXYZ, WDOD, WJHP*, and WBBR.

On at 7:00 a.m. are: WTMJ, KOWH*, WCCO, WCSH, WEAU, WIBC*, WMBI, CHLP, WJJD, WOWO, WCAE, WNBX, KLCN, and WKBW. (All of the previous are the observations of Friend Landry who has marked his most difficult catches with an asterisk and tabulated them as they would appear on your dial from 550 kcs. down the line to

1550 kcs!)

George Wetherell and Jim Davis both come to the aid of Hank Bennett in his query about the piece played before "God Save The King" on Canadian network stations. It is "O Canada". . . Residents of Penn Yan, N. Y. are petitioning the FCC for a new station to serve the picturesque "Finger Lakes" region, according to Roy Woollacott. . . Ooops! We nearly forgot to mention that Arnold Worme was one of those who also answered the "O Canada" query.

Robert Koppelon of Newark, N. J. pays high praise to communications receivers when he says that he can't see how anyone using a set like these (communications) receivers can get any fun out of DXing since it can pick up anything on the air. . . While some communications receivers are very good, we hardly believe any of them can live up to Radexer Koppelon's expectations. Too many other factors besides a good receiver enter into the matter of hearing everything on the air to even think of such a thing. There is the matter of location, antenna, ground system, and what is more important, atmospheric conditions. . . A threat, a warning, or what have you comes from Bob Gilchrist who says he has made a slow start in the RADEX Contest, but is going to make a very strong finish!

P. O. BOX R9

ASHEVILLE, NORTH CAROLINA—William Waldman, "I am 18½ years of age and have a Kadette 7 tube and a Truetone 11 tube radio. I had a 4 tube T. R. F. set which I used in Chicago where I was able to log KOA in Denver and WTIC in Hartford. Cubans were common on that set which was 10 years old!"

WASHINGTON, R. I.—Phillip Potter: "WJEJ says that my cards are the first reports from Rhode Island."

STRATHROY, ONTARIO—Charles A. Mills: "First, here is a summary of one year of DXing on this radio—a Philco 17 T on the broadcast band. 488 stations with 141 verifications received and reports out to several more. This includes all states except Arizona, Idaho, Nevada, and New Mexico. The California stations have been coming in better so far this season than last year."

WEST MONTREAL, P. Q.—Arnold F. Worme: "I'm using an Espey 5 tube superhet with built in antenna (loop) and a 40 ft. 1/2 wave doublet tuned to 25 meters on the roof. Although the set has no band spread, I find it has plenty of power and selectivity. My broadcast band totals 73 stations, 61 in the United States, 12 in Canada, with WOAI in San Antonio the southernmost, and WHO in Des Moines, the farthest west."

PORT CREDIT, ONTARIO — Fraser Hendrick: "Port Credit, as you probably know is on Lake Ontario, 14 miles west of Toronto. I put up a new 110 ft. antenna for DX-ing this year. With this antenna and a 5 tube Westinghouse receiver I was able to log the following at 11:30 a.m. until 2:00 p.m.: WSB, WHOM, WLTH, KITE, WDGY, WSPR, WLAW, WLAC, WBIG, WCSH, WIRE, WTMJ. Has any DXer living within 200 miles of Detroit, ever been able to get a veri from WJR?"

DULUTH, MINNESOTA—Nils J. Nordstrom: "May 13, 1939 was the start of one of my hobbies. This one is called 'DXing' and it began about fifteen days after we purchased our first radio. This is a six tube table model Airline with a range from 535 to 1720 kcs."

NEWBURG, NEW YORK—Don Reynolds: "I've just about given up ham and shortwave DXing because of the war. Now I'm concentrating on my old favorite, the broadcast band. The Cubans literally swamp the dial here at night. A few SA's manage to break through now and

then. I have reports out to CB118 and HJ1ABN. The TA stations have not given a peep so far this season, the TP's have been quite active on a few occasions. I heard 13 of them one morning, but none lasted long enough for a good report."

ST. LOUIS, MISSOURI—Arthur J. Kimble, 4643 Page Blvd: "I have been hearing two Spanish speaking stations on the broadcast band, but have been unable to log them because all announcements have been in Spanish. Could you tell me if at any time these stations announce in English. They come in on 690 kcs. and 730 kcs." (The 690 kcs. station is CMQ in Havana which occasionally announces in English on the quarter hour—RL).

TERRA ALTA, W. VA. — Joe Jones: "The receiver here is an SX-24 HALLICRAFTERS with a Guthman U-42 preselector. The broadcast band has been rather noisy so far this season. Here is a list of all night broadcasting stations: WWSW, WJBK, KXYZ, KSAN, KFAC, KLS, WNEW, WOL, WEDC, KRKD, KJBS, KWJJ, KFVD, WIP and WMCA."

ROCHESTER, PENNA. — A. G. Schleiter: "I started a new log of stations on October 20th and have 361 stations in just 41 days—a very poor record. I have had double that in one month."

PORT RICHMOND, N. Y.—Peter A. Clarius: "This is my first report of the season to RADEX. New stations logged are: KRKD, WPID, WKPT, WHUB, WBRW, WKY, WGTC, WFPG, WBML, WKIP, KYAN, WAOV, KXOK, WLOF, KPHO, WMJM, WLOG, WSOO, WINN, KMJ, WJPR, WSTV, WFHR, WTCM, WJHO, WCNI, WMOG, WLBK, KFXJ, KENO, WKNE, XEU, WJOB, WBLJ, KUOA, WTAG, WPAB and WARM. WFPG is now verifying with a very attractive card and they ask that all reports be sent to the "Steel Pier" in care of Blair Throm, chief engineer."

HARTFORD, CONN.—Leon Prague: "Having just joined the RADEX Club, this is my first report. During my first year as a broadcast band DXer, I have heard 213 stations and verified 38 on an Emerson 4 tube radio."

STRATHROY, ONTARIO—Lorne Mitchell: "I have been DXing only a month, having been introduced to the hobby by Radexer Charles Mills here in Strathroy. I am using a 1931 Rogers Radio at the present time. I have logged a hundred and seventeen stations on the broadcast band and have written for 49 verifications. To date I have 22 replies."

MILWAUKEE, WISCONSIN—Fred Borchardt, 5103 N. Sherman Blvd: "I would like very much to receive information regarding FCC tests or any DX programs conducted by stations in Maine, Vermont, New Hampshire, Wyoming, and Delaware."

UPPER DARBY, PENNA.—George Wetherill, Jr., 247 So. Carol Blvd: "Does anyone know the power of the station on 550 kcs. at the George Washington Bridge? Is there any chance of my picking it up? Would you please tell me of any other non-commercial Broadcast band stations that I have a chance of hearing. Both Nat Boonin and I hear code stations on 900 kcs. and 940 kcs. in the daytime, and at night on 580 and 630 kcs. Are these harmonics, images, or real stations? I notice that someone reported hearing a M-1 in Boston Harbor. Are there any such stations in Philadelphia?"

RIDGEWOOD, NEW JERSEY—Llyod Rees: "How is this for daylight reception? Noon on Dec. 28, 42° Fahrenheit, raining: WGR, WTAG WEEI, WLBZ, WLAW, CKAC, CBL, WBEN, WFMD, CBF, KDKA, CBA, WSPR, WDAS, WJSV, WKBW, WTAM, WBT, and WHAM."

ASTORIA, NEW YORK—Joseph Janata: "I recently bought a new Howard Model 435 and like it very

much. A verification from WADC arrived after 11 months of waiting. Could this be a record?"

TORONTO, ONTARIO—Jim Davis: "I bought my first copy of RADEX a few days ago and I think it is by far much better than any other radio magazine: I am using a Spar-ton Model 253 with a 100 ft. aerial. Log is 180 stations on the broadcast band."

CHICAGO, ILLINOIS—Blake H. Page: "I've been DXing since 1922 when radio was an infant. Some of my verifications date back to 1923 or 1924. I believe I have heard some 1500 or more stations. I'm now using my third Scott receiver since 1932—which is when I first started to use RADEX. For daytime records, I have heard as far south as WWL, east to WBZ, north to WEBC, and west to WOW."

COVERING THE CONTINENTS Domestic Dialings

"W" Calls In The East: WLAW came on the air at 4:15 p.m. on December 1 with its new 5 kw. transmitter. . . . WJAR and WBRV also have permits for 5 kw. . . . WOCB is operating from West Yarmouth, a part of the town of Yarmouth. . . . WFPG stands for "World's Favorite Playground." . . . WKNY is located in the Gov. Clinton Hotel in Kingston. . . . WESX signs on at 8 a.m. on Sunday. . . . Has WRTD been deleted? (Yes—RL). . . . What station uses or has used the call KCFI. (Roger F. Scott, Whitinsville, Mass.)

WEEI, now on from 6:00 a.m. to 1:00 a.m. is scheduled soon to come on the air at 4:45 a.m. . . . WNAC from 6 a.m. to 1:15 a.m., WBZ from 6 a.m. to 1 a.m., WCOP from 6 a.m. to 4:30 p.m., and WHDH from 6:30 a.m. to 7 p.m. . . . WAAB is from 7 a.m. to 2 a.m., WORL from 7 a.m. to 4:30 p.m., WMEX from 8 a.m. to midnight, WLAW, from 6:30 a.m. to 1:15 a.m. WESX and WLLH both come on at 6:30 until? . . . WGAN is now using its 5 kw. (Stanwood R. Morss, Bradford, Mass.)

WGN verified by duplicate letter which says the issuing of verification cards and stamps has been discontinued. . . . WBTM verified by letter with Danville, the World's Best Tobacco Market printed across the bottom. . . . WMSD; KWYO KADA, and WJR have verifications showing their antenna towers. (Fred Binkley, Jr., China Spring, Tex.)

WEAF on 660 kcs. has a new transmitter at Port Washington, L. I. They sent an eight page folder on the station. . . . The following new stations are now on the air: WKPA, WGAC, WLAV, WBLJ, WSOO, WAKR, WDAK. . . . WMAL comes on at 6 a.m., KUOA on at 5 a.m., (Charles A. Mills, Strathroy, Ontario)

It is three years since WLAW took its place on the air with the many other stations throughout the United States and in that space of time they have done a great service to the public and its many listeners. On the WLAW inaugural program it was announced that WMUR on 610 kcs., the station owned by Gov. Murphy is under construction. (Matthew E. Leshner, Lawrence, Mass.)

WMRO's card is printed in silver and black with call letters in red, and the blanks filled in with green ink. The card is a glossy white. . . . WMCA is inaugurating a new policy, going on a 24 hour schedule. Important note in schedule is the curfew on jazz at 2:00 a.m. until 7:00 a.m. This time will be filled with soft music, poetic readings, impromptu guest appearances, etc. . . . (George Wetherill, Jr., Upper Darby, Penna.)

WEEU has a test program every Monday morning at 6:30 a.m. . . . WTCN's card is in red, white, and blue with the American Flag pictured on it. . . . WGY sent three stamps showing views of the transmitter. . . . WTAM has a DX tip program every Saturday night at 11:15 p.m. . . . WINX was heard on their test programs. (N. Bernard Boonin, Upper Darby, Penna.)

WAAT sent a card with large red letters on it. . . . WKIP operates from 7:00 a.m. to 12:05 a.m. on weekdays and from 8:00 a.m. to 12:05 a.m. on Sundays (N. Bernard Boonin)

WFBR in Baltimore is Maryland's pioneer broadcast station and operates daily from 7 a.m. to midnight. . . . WSAJ operates from 6 a.m. until 2 a.m. daily. On Sundays they come on the air at 8 a.m. (Elwin L. Gleason, Moosic, Penna.)

WLAP is going to change frequency and power. WSOY took 12 months to verify. . . . KOTN has changed from 100-250 watts. (Vernon Lee Gibbs, Lexington, Ky.)

WICC is on the air at 6:00 a.m. until 2:00 a.m. . . . WGAN is now on from 7 a.m. to midnight. (Lee D. Johnson, Portland, Me.)

WJAX have finished remodeling their studios and expect to increase their day and night power to 5 kw. When completed their fidelity will not be equaled by any station east of Louisiana and South of Carolina, except for WSB! (Ed Medric, Brooklyn, N. Y.)

WJEJ verified with a full color post-card showing a moonlight scene of their transmitter. (Edward Laudansky, Dorchester, Mass.)

WROL is now on 620 kcs. . . . WJHL is now on 880 kcs. . . . WSPA begins broadcasting at 6:00 a.m. and signs at 5:00 p.m. (William Waldman, Asheville, N. C.)

WSPR is now testing on 1240 kcs. . . . WINX, Washington's newest broadcasts a full hour of news from 12-1 a.m. nightly. . . . (Bob Gilchrist, New York, N. Y.)

WOLF in Syracuse was very pleased with the report I gave them concerning their daytime signal strength here in Rochester. They verified by letter stating that they would like other reports from other DX friends of mine. The stamps I enclosed were returned! (Roy Woollacott, Rochester, N. Y.)

KEUB's card is in red and black. . . . WAYX is in black with call letters in green. KFXJ's card shows a

picture of their new transmitter. (Harold Blinn, Arkansas City, Kans.)

WSPA verifies with a very appreciative letter. . . . WBAL sends large advertising blotters with their verification. (Fred Borchardt, Milwaukee, Wis.)

WGBF heard on their new frequency of 1250 kcs. in the evening with an R7-8 signal. (Bill Gabriel, Lakewood, Ohio)

WHBI, in my last report, was classed a religious station, but I found out later that it was KUOA that I was hearing. (Leon Prague, Hartford, Conn.)

WOLF's verification was signed by Lawrence A. Reilly, chief engineer. (Lester Balcom, Malden, Mass.)

WKAQ can be heard signing off at 10:05 p.m. with the Star Spangled Banner. (Norman H. Kane, Drexel Hill, Penna.)

WKNE's verification was received two days after mailing the report. WKNE uses 5 kw. (Norman L. Maguire, Stamford, Conn.)

WJHL and WKPT both operate from 6 a.m. to 11 p.m. . . . WBIR will operate the same schedule starting in January. . . . (Bill Scott, Johnson City, Tenn.)

WDEF on 1370 kcs. is on the air daily until midnight. . . . WBLJ our new station in Dalton is on the air from 7 a.m. to midnight with 250 watts. C. W. Roberts is the chief engineer. (John D. Long, Dalton, Ga.)

WGR and WSYR sign on the air at 6 a.m. . . . WGAC was heard R3 through WEDC. (Weston Richards, Zion, Ill.)

"K" Calls In the West: KUOA is heard with R8-9 signal every morning. They send a post-card with big red letters in the upper left hand corner. (N. Bernard Boonin, Upper Darby, Penna.)

KYW is now using their 50 kw. This greatly adds to the strength of the signal in urban Philadelphia. XERA is pretty well eliminated, now. (Norman H. Kane, Drexel Hill,

Penna.)

KMA has an early morning program and the station comes in like a local until WPEN comes on the air. . . . KOWH can be heard with a nice signal in the early morning even after WEAf's carrier is turned on. . . . KENO is the first Nevada station that I have heard, but my report, out over a month has not been answered yet! (George Wetherhill, Upper Darby, Penna.)

KXOK is now operating on 630 kcs. . . . KYW is going to need more than 50 kw. in order to lick XEAW here. (Roy Woollacott, Rochester, N. Y.)

KGA on 1470 kcs. operates daily from 10 a.m. to 3 a.m. using 5 kw. . . . KWK operates daily from 7:00 a.m. to 1:30 a.m. and Sundays from 8 a.m. to 1:30 a.m. (Elwin L. Gleason, Moosic, Penna.)

KITE's verification stationery shows a large kite flying among the clouds. . . . KGIR's verification message is on a sheet of copper! (Fred Borchardt, Milwaukee, Wis.)

KPO, KNX, KHJ, KFAC, KFAC, KGO, KMJ and KFVD can be heard regularly in the early morning. . . . KFI signs off at 3:15 a.m. . . . KFVB has been heard around 2 a.m. . . . KRKD has been logged between 3 - 4 a.m. . . . KERN (1380 kcs.) signs off with newscast at 3:00 a.m. . . . KFBK on 1490 kcs. signs off at 3:00 a.m. . . . KVI also signs off at 3:00 a.m. (Charles A. Mills, Strathroy, Ont.)

KWAT in Watertown, S. Dak. verified in 29 days. The slogan is "The Voice of South Dakota." (Robert Mc Connell)

KWIL in Albany, Oregon on 1210 kcs. has been heard with equipment tests. (Joseph Jones, Terra Alta, W. Va.)

KGFJ on 1200 kcs., KROY on 1210 kcs., and KSAN on 1420 kcs. are still on the air during the FCC tests. Can anything be done about it? (If they interfered with the FCC's monitoring of the stations they would be asked

to remain silent—RL)

Bahamas: ZNS has been heard occasionally through WGY. News from London was heard at 7:45 p.m. On verification, both the shortwave and broadcast band stations are listed. (George Wetherill, Jr., Upper Darby, Penna.; Roy Woollacott, Rochester, N. Y.; and Peter G. Landry, Montreal, P. Q.)

Canada: CKCL on 580 kcs. is being heard here well with their increase in power to 1000 watts. . . . CBR on 1100 kcs. is heard several times weekly. . . . CHNC signs off at 11 p.m. which is midnight Canadian time. . . . (Edward Laudansky, Dorchester, Mass.)

CBW in Windsor is listed in a Toledo, Ohio newspaper on 600 kcs. Has anyone any information on this station? (Bill Gabriel, Lakewood, Ohio)

VE9BC in Revelstoke, B. C. on 840 kcs. with 20 watts is the first of a number of small broadcasting stations being installed by the CBC in certain sections of British Columbia and Northern Ontario, where residents have poor reception because of natural barriers. The station is in charge of the Telegraph Line Repeater Operator at Revelstoke, who feeds all CBC network programs, sustaining and commercial through this low powered transmitter, which is powerful enough to service the residents of this mountain area. The station does not sign off or on, as no microphone is located at this point. Its present experimental call letters will be changed shortly and a call similar to other CBC stations will be given the station. Similar stations are to be built at various points and small settlements throughout the Rocky Mountains along the two Canadian Railway lines. Later it is planned to have these stations in Northern Ontario, north of Lake Superior. (George Wetherill, Jr., Upper Darby, Penna.)

CBY in Toronto is going to in-

crease its power from 100 to 1000 watts and a new antenna is going to be built outside the city limits. As it is now, CBL carries all commercial programs of the CBC because CBY has not enough power to be heard far out of Toronto. CBY now carries quite a few programs of the MBS. (Jim Davies, Toronto, Ontario)

CFRC on 1510 kcs. in Kingston, Ontario verified by a government post card. (Roy Woollacott, Rochester, N. Y.)

CBA in Sackville on 1050 kcs., CBK in Watrous on 540 kcs., and CBL in Toronto on 890 kcs. can all be heard on Saturday nights from 8 p.m. with hockey game broadcasts. . . . CKCL on 580 kcs. is another Canadian station having verification stamps. . . . CKTB has a black card with large silver letters. . . . CHML on 1010 kcs. has a card with a green picture of studio building with message printed over the top. . . . **NOTE:** Some Canadian stations will be noticed to be giving the time one hour ahead of other stations in the same time zone. This is because of a government regulation stating that cities on Daylight Saving Time in the Summer would remain on it for the duration of the war. (Charles A. Mills—Strathroy, Ont.)

Newfoundland: VONF on 640 kcs. is not heard very well lately. They relay B. B. C. news from London at 8 p.m. They sign off at 9:30 p.m. (Roy Woollacott, Rochester, N. Y.)

VOCM is listed on 1006 kcs. in a Newfoundland newspaper. (Edward Laudansky, Dorchester, Mass.)

Latin America

Argentina: LRA is heard almost every morning from 1:30-3:30 a.m. with a four tone whistle and station announcements in Spanish and English. (George Wetherill, Peter C. Landry, Roy Woollacott, N. Bernard Boonin)

LT-3 is the one South American I have heard this season. (N. Bernard

Boonin)

Colombia: HJAN was heard with an R9 signal and verified through WOAI. As soon as WOAI signed the Colombian came in fine. . . . HJCZ is heard on 1040 kcs. over WTIC and KRLD! Some nights these stations cannot be heard, and then HJCZ puts in an R6 signal. . . . HJBJ in Santa Marta has been heard several times in the early mornings. (George Wetherill, Jr., Upper Darby, Penna.)

HJAN on 1190 kcs. heard one evening for four consecutive hours. The time from 8 p.m. to midnight. They were also on Christmas morning as was HJAH on 1080 kcs. (Peter C. Landry, Montreal, P. Q.)

Costa Rica: TIGP on 625 kcs., TIEP on 825 kcs., and TILS on 880 kcs. was heard Christmas morning. (Peter C. Landry, Montreal, P. Q.)

TIPG on 625 kcs. can be heard as early as 7:30 p.m. with an R4 signal. Has anyone ever received a veri from this station? (Roy Woollacott)

TI4NRH heard with a fair signal but QRM'd by WGN. They were heard much better after 2:00 a.m. (George Wetherill)

Cuba: CMBH on 1600 kcs. is heard R9 plus. Report has been out four months and no verification yet! . . . CMBC is now operating on a frequency of 780 kcs. They are heard R9 plus. . . . CMKG is heard on 1000 kcs. using 10 kw. (Vernon Lee Gibbs, Lexington, Ky.)

CMQ's card has a picture of their transmitter and is printed in brown on white. (N. Bernard Boonin)

CMOX on 1510 kcs. is heard almost every night with American music. (Weston Richards, Zion, Ill.)

CMKN on 640 kcs., CMHQ on 670 kcs., CMQ on 690 kcs., CMCF on 810 kcs., CMHI on 830 kcs., CMX on 880 kcs., CMCK on 970 kcs., are being heard regularly in the evening. . . . CMCY on 590 kcs., CMCD on 630 kcs., CMBL on 720 kcs., CMK on 750 kcs., CMKU on 770 kcs., CMCM

on 850 kcs., CMBX on 1180 kcs., and CMOX on 1510 kcs. are heard occasionally in the evening. (Peter C. Landry, Montreal, P. Q.)

Ecuador: HC2AJ was heard on their DX program with a weak signal. (George Wetherill, and Fred Benkley, China Spring, Texas)

Guatemala: TGW on 1520 kcs. should, by the time this appears in print, be using their new 10 kw. transmitter. (RX)

There is a low pitched heterodyne from another Spanish speaking station on TGW. Who is it? (Roy Woollacott)

Mexico: XEH on 740 kcs. has been heard several times on Sunday morning with special DX programs. . . . XEL on 1150 kcs., and XESM on 1400 kcs. heard regularly every a.m. (Peter C. Landry)

XERA, XEAW, and XENT took long enough to answer my reports, but now they're over-doing it. To date I have 3 XERA cards, 2 XENT cards, and one from XEAW. . . . (George Wetherill)

XEL on 1150 kcs. is heard very well around 2 a.m. They announce their call letters in English. . . . XEG is now operating on 1050 kcs. They broadcast both Spanish and English programs. . . . XEW is heard all evening with strong signals. All programs are in Spanish. (Roy Woollacott)

XEQ on 730 kcs. in Mexico City has a program from 12:30-1 a.m. consisting of American dance tunes. . . . XEMO on 860 kcs. can be heard most mornings until 3 a.m. . . . (Charles A. Mills)

XENT on 990 kcs. now and can be distinguished between KDKA and WHO. Nill J. Nordstrom, Duluth, Minn.)

XEH was heard testing new RCA equipment and urgently requesting reports. . . . XECL is on till 3 a.m. with a program for the United States. (Weston Richards)

Panama: HOK verification received for report on special DX program.

Puerto Rico: WKAQ on 1240 kcs. is heard well beginning at 6 p.m. The call letters are announced in English on the half hour. (Roy Woollacott)

Uruguay: CX-6 on 650 kcs. verification received. (Peter C. Landry)

Venezuela: Delete from service: YV5RR on 1010 kcs., YV5RD on 1450 kcs., YV5RQ on 882 kcs., YV5RE on 1110 kcs., YV4RI on 1450 kcs.

Frequency Changes: YV1RD from 1153 to 1150 kcs., YV3RE from 1475 kcs. to 1470 kcs., and YV5RB from 1200 to 790 kcs.

Call Changes: YV3RC—"La Voz de Lara (1270 kcs.) changed to YV3RA—"Radio America"; YV5RG—"Ondas Populares" (1010 kcs.) changed slogan to "Emisoras Unidas Ondas Populares—Estudios Univer-so"; YV4RL (1430 kcs.) uses slogan "Radio Maracay"; YV4RG—"Radio Marconi" (1153 kcs.) is now YV4RD on 1150 kcs.; YV5RX—"La Voz de la Patria" (720 kcs.) now uses YV5RH with same slogan and frequency.

Location Changes: YV5RL—"Radio Tropical" on 1160 kcs. from El Valle to Caracas. (Jose Carriazo, Jr., Havana, Cuba)

QUERY: A Latin American puzzling Norman Kane and George Wetherill on 825 kcs. is evidently TIEP in San Jose, Costa Rica using 500 watts.—RL, Mass.

Tuning the TA's

France: "Radio Nationale Francaise" is by far the best heard TA' station this season on its 1393 kcs. channel. From the type of programs and announcements we judge that this station is undoubtedly the former "Radio Lyons" with increased power. A sister station to this is heard on 1321 kcs. usually operating in parallel which can be the former "Radio Mediterranee" at Antibes, France. These stations were reported by Radexers George Wetherill, and Norman Kane. (RL—Mass.)

"Toulouse-Pyrenees" on 775 kcs. and "Lyon La Doua" on 648 kcs. were heard on Jan. 8 for my first TA

reception. (Peter C. Landry).

"Radio Toulouse" on 913 kcs. has been heard spasmodically throughout the winter season, but Paris Mondial, and Rennes along with "Radio Normandie" are absent this season. (RL—Mass.)

Germany: A German speaking station was heard on approximately 630 kcs. in the early morning with a good signal. Can anyone identify it? (May have been the former Vigra, Norway station on 629 kcs., using 100,000 kw.—RL) Question supplied by George Metherill.

Hamburg was heard on Christmas morning with a fair signal and fading badly. I managed to get a report out to them, but whether they reply is doubtful. (George Wetherill)

Stations speaking a language believed to be German were heard on 850 kcs. (Probably Stavener—Norway—RL) on 720 kcs. (Probably Jaarsveld, Netherlands—RL) and on 660 kcs. the latter which was undoubtedly Cologne. All these were heard from 1:10 a.m. to 3:30 a.m. (Peter C. Landry)

Great Britain: "Home Service Stations" on 667 kcs., and 767 kcs., were heard with R3 and R4 signals respectively. (Peter C. Landry)

The synchronized transmitters on 1149 kcs. were heard very well at times during January after WHAM signed. Programs are usually in a foreign language and sometimes there is QRM from XEL. (Roy Woollacott)

The British station on 1050 kcs. has been fighting it out with KNX lately. It may be heard as early as midnight with news in English. This is followed by news in French and other languages. The programs are the same as 1149 kcs. (Roy Woolacott, Rochester, N. Y.)

Norway: "Stavenger Kringkaster" was my first TA logged on Aug. 17, 1940 at 2:26 p.m. and a veri received on 10-10-40 by air mail, passed by both censors. 2:26 p.m. is correct

(Please turn to page 95)

The Inside Story of That New Radio

B. FRANCIS DASHIELL

This season of the year finds many new radios coming into use. For, like everything else, radio sets are changing in appearance, convenience and efficiency. However, the basic principles operating inside these superb examples of the cabinet-makers' art have changed but little. Strip a radio of its fancy dressing and the many new gadgets that provide for ease of operation and you will find the fundamentals much the same as when the first super-hetrodyne circuit was discovered. Practically all radios now utilize improved super-heterodyne principles, and the old tuned-radio-frequency receivers that served so well are just about obsolete.

No two radios of different models and makes, even when using the same number of tubes, are identical. When we stop to think that a couple of thousand radio engineers are employed to develop new ideas, that over 10,000 models appeared during the past decade, and approximately 30 million sets are in use in America today, it is easy to understand that no description of a radio receiver can be made to apply to all sets in use everywhere. But the essential principles, although often abused by liberal radio designers, remain as constant throughout the years as those which explain why airplanes fly and automobiles run. It is of these general fundamentals that we shall speak.

Now that you have a new radio, or an old one for that matter, you may wonder what is under that venter of polished wood, bright metal, and mysterious buttons, knobs and switches. The modern radio is much like the automobile; you can operate it after a few simple lessons, and yet never learn just what makes it work and why. For this reason, the radio novice, unless he is ground-

ed in radio and electrical fundamentals, seldom fails to get the real inside story of his new radio. It is true he learns all there is to the art of tuning and picking up stations by consulting RADEX, and quickly becomes adept at DX reception. But he also hears much about kilocycles, megacycles, wave lengths and frequencies, static, interference, automatic tuning, tubes, antennas and doublets. These sometimes puzzle, but it is what goes on inside, when the signals from the antenna enter here, go in and around and around, and come out there, that mystifies so many people.

But, believe it or not, its quite simple and highly interesting! Yet the story of modern radio is amazing, even to those who have become its master. It has proved to be one of our greatest achievements, and today America leads the world in the production and use of radio apparatus. Radio, as you may already imagine, therefore, was not the invention of a single person. Yet, just after the turn of the century, a foreign scientist named Marconi put a few discoveries together and made them work. Americans, however, have made radio what it is, and they use it far more widely and with much more freedom than any of the other nations of the world.

The magic of electricity provides the energy so vital to radio. Magnetism, light, and sound, also play essential parts. But the power to scatter radio signals from great transmitting stations to millions and millions of receivers comes from electricity. However, the total energy radiated from one station may be no more than that which is consumed by the electric toaster at our breakfast table! And there is no limit to the number of radio sets that can be brought to life merely by the passing

of a single radio wave which flies through the air and around the wires of our receivers with the speed of light—186,000 miles a second! Behind the dials and controls of our radio receivers lurks practically all the effects of electricity, and yet a child can control them and bring them into play with the touch of a finger!

Let us not enter into a discussion of weighty theories. They may best be left to text books and studious experimenters. Instead, we shall sit before the new radio and, in our minds, picture the flight of the broadcast signals from their source across space to our homes and radios. But, it must be remembered, these things happen very quickly—seven times around the world in one second! One cannot think that fast, so don't try! By a snap of a switch and touch of the dial, we bring in some foreign station. But this simple action brings into play many of the marvelous laws of nature. Instantly, sweet melody pours forth from the loud speaker, and it seems indeed that the musician must be standing beside the radio, so perfect is his art, instead of being many thousands of miles away. His finger, too, has not yet left the key of the piano before you hear the note; it even comes to you a split fraction of a second before those listeners who sit in the back row of the broadcast studio can hear the sound!

This is because radio emissions travel with the speed of light—186,000 miles a second—as compared with only 1,120 feet a second for sound. Thus, it requires just about 1/60th of a second for a voice from Europe to be electrically wafted to your home receiving set!

Here is how a standard broadcast station works:

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

A person talks into the microphone as if it were a telephone. His voice sets up varying vibrations in the microphone. The lower the pitch the slower the vibrations. These vibrations have various "intensities" and "frequencies", "Intensity" means the degree of sound, and "frequency" refers to the number of sound waves which can be transmitted in a given length of time.

In the studio these vibrations are converted into electrical current having the same "frequency" and "intensity" characteristics as the sound delivered into the microphone. After being checked and double checked at the studio, these electric impulses are sent over leased telephone wires to the individual transmitting station (usually some miles distant), or to other radio stations carrying the same broadcast. This is the method used in so-called "network" broadcasting.

These electrical vibrations which represent the voice or music in the studio are sometimes called the "audio wave". They are greatly amplified in intensity—sometimes 10,000,000 times—before they are imposed upon the "carrier wave" at the transmitter. The carrier wave is the one assigned to the radio station by the Federal Communications Commission—that to which the dials on the radio receiver must be tuned in order to hear the station.

The intensity and the frequency of this wave are constant, and all by itself it cannot transmit any music or speech. In order to do this it must be varied in some way in accordance with the fluctuations of the audio waves. This is called "modulation". In the standard broadcast band the audio waves are imposed on the carrier wave in such a way as to cause its frequency to remain constant and its "amplitude" (or power) to vary in accord with the audio waves. This is called "amplitude modulation".

These modulated radio waves are then put on the air by the transmit-

ting antenna. They radiate from the antenna tower like waves moving with the speed of light. They emerge in the same fashion that ripples do in a calm body of water disturbed by a thrown stone. However, these radiations move out in ALL directions. Some of them follow the contour of the ground and are called "ground waves." Others dart upward and are called "skywaves." The former give the best daytime reception. At night, however, the "skywaves" are forced back to earth by a ceiling of electrical particles which science calls the "ionosphere." This nightly rebound gives the listener a choice of more distant stations.

Radio waves pass through buildings and other objects subject, of course to absorption and interference. As in the case of artificial ripples on water, radio vibrations weaken with distance. Seasonal disturbances and sunspot periods can also disrupt and throw them off their course.

Standard broadcast stations in this country transmit 550,000 to 1,600,000 waves a second. They are known as "long wave" stations because the waves they transmit are actually long. At 550,000 waves a second, the distance between the crests is 1,800 feet. This is known as "wave length." A station transmitting 550,000 waves a second is said to have a frequency of 550,000 "cycles." This corresponds to 550 "kilocycles" (one kilocycle equals 1000 cycles) which, for the sake of convenience, is the usual marking on your receiving set dial. ("Kilo" means one thousand, and "cycle" refers to a complete swing of an electric vibration. Thus, "kilocycle" is a short way of denoting a thousand of these vibrations or oscillations a second. By the same token, a "megacycle" is equivalent to 1000 kilocycles.)

The so-called "short wave" broadcast stations transmit from 6,000,000 to 25,000,000 waves per second. These waves are sent out one after the

other so rapidly that the distance between their crests is only from 50 to 150 feet. It is a paradox that "short waves" go farther than "long waves." That is why international broadcasts are on "short waves."

Unknown to most people, radio transmission goes out in three simultaneous waves. The fundamental frequency or carrier wave, is accompanied by two other waves, one immediately above and the other immediately below the main carrier. These are called "side bands." The distance separating the main frequency and its companion frequencies is known as the "modulation frequency."

The modulated radio wave from the radio station transmitter is picked up by the home receiving antenna. That is to say, it sets up in the receiving antenna modulated radio frequency current having the same frequency and the same varying intensity as the radio frequency currents in the transmitting antenna. The receiving set changes these impulses back into sound which is amplified so that the human ear can hear. In the receiver the carrier wave and the audio waves, of which the modulated wave is comprised, are separated by a device called a "detector" or "demodulator". The carrier wave is shunted off into the ground. Having done its job it is no longer needed. The audio waves, however, are sent to the loud speaker or "telephone head set" where they are transformed back into sound waves.

Radio waves occupy only a portion of what science calls the "electromagnetic spectrum." Imagine the latter as a ruler marked off in kilocycles (which means frequencies) for eight different classes of electric radiation. The radio part of it ranges from 10 to more than 400,000 kilocycles (or frequencies). Not all of this is useful at the present time. But into the useful portion, at varying intervals and in various widths, are crowded many types of radio services.

The number of frequencies avail-

able for standard broadcast service are limited, so there is international agreement as to their use. This is necessary to prevent broadcasts in one country from "colliding" with broadcasts in another country. Thus though the same frequencies have to be used throughout the world, they are shared in such manner as to minimize interference.

Standard broadcast occupies from 550 to 1600 kilocycles (or frequencies). This is known as the standard broadcast "band". This band was adopted for broadcasting because a score of years ago, when broadcasting began, the lower frequencies were used by other radio services, ships at sea, Government stations, and by radiotelegraph stations employing code signals. Very little attention was given to the higher frequencies in those early days. It was believed that they were not suitable for broadcasting since it was known that their ground waves were much more highly absorbed and weakened than those of the longer waves. They turned out to be the only ones possible for broadcasting to great distances, such as to foreign countries, because of the sky waves which bounce back to earth as previously explained.

Today the development of FM (frequency modulation) and television bids to make the ultra-high frequencies (above 30,000 kilocycles) also very useful. The FM development on the ultra-high frequencies is interesting because it promises more natural reproduction of music and speech than is obtainable on the lower frequencies and greater relief from static and noise. In the FM wave it is the amplitude or power which remains constant instead of the frequency as in the standard AM (amplitude modulation) wave, and it is the frequency which varies with the audio wave instead of the amplitude when the carrier and audio waves are superposed.

To prevent interference and confu-

sion, it is necessary to apportion broadcast frequencies into "channels." In our standard broadcast band there are 106 such channels, each 10 kilocycles wide. A broadcast channel can be used by a number of stations if the stations are adequately separated to prevent interfering with one another or are protected by directional antenna systems.

A standard broadcast channel, in effect, means the path assigned to the emission of a particular station. The broadcast station's carrier wave, plus its two "side bands," must keep within the channel. The side band is the range of frequencies required for the audio program (music or speech).

A broadcast station is assigned 10 kilocycles of the spectrum for its emissions to travel in. It is permitted a certain amount of "swing" or deviation. However, its carrier must operate within 20 cycles of the assigned frequency.

Hearings differ, but the perceptible range of sound to humans is from about 16 cycles to 16,000 cycles a second. A new dog whistle emits sound which does not register on the human ear. A piano keyboard sets up vibrations of from some 27 to 4,000 cycles a second. The new FM (frequency modulation) system advocates a maximum of 15,000 cycles a second.

A broadcast channel may be likened to a modern highway, with the dividing white line of the latter representing the assigned radio carrier frequency, and the side bands symbolic of the adjacent traffic lanes. A broadcast station program travels the etherway with identifying call letters akin to license plates of an auto traversing a land highway. Both must keep in their assigned lanes to prevent "colliding" with traffic in adjacent lanes. Such "collisions" are responsible for the squeaks or rumbles often heard when you attempt

(Please turn to page 52)

On The West Coast

By MELVIN FISHER

It does "Ye olde correspondent's" heart good to see the increase in activity in western DX, coupled with the fine line-up of prizes we now boast for the RADEX contest winners! The way you fellows are twisting the dials and sending in the reports you're a cinch for some of these prizes. Just go after the veries, for those are the "blue chips" in these contests!

This past winter has been very good for reception of the Japanese stations, both on the broadcast band and short-wave, while reception from "Down Under" has been a trifle disappointing, judging from the comparative scarcity of reports on stations from this part of the world. However, we are just now heading into the Spring "peak" period for reception of these stations, and so have one more big chance this season to go after Australian and New Zealand additions to our logs.

At this time it is a little early to list any results in our Distance contest, but we expect to have some good entries in the next issue, though everybody has until July 1st to get distant veries in. Standings will be listed in two divisions: Broadcast Band,, and Shortwave.

We all wish to extend a hearty welcome to newcomers to RADEX, whether you are a beginner or a "vet" at this hobby of DX. We hope that all our relations together will be most pleasant, and of long standing. So please "get your feet wet", fellows.—enter the contests—send in reports for the column; you'll certainly earn our appreciation!

I've had several requests from new RADEXERS asking how they might become reporters to the column. As all the old-timers know, there is no

"red tape" connected at all. Just take your pen in hand and start writing, or sit down to your typewriter and punch out a card or a letter to us, stating what you have heard via your radio. Joining the RADEX club is just as simple—put your request on a postal card and address it to RADEX, 12 Locust Avenue, Emerson, N. J., and a free membership card will be sent you. You will note our short-wave reports are arranged by countries—it will help us immeasurably to have each one of you submit your reports in this fashion, for by each one working a little harder, a great deal of work is saved one person. We wish to thank all of you who already follow this procedure—your cooperation has helped a lot.

Competition was terrific for places on the Big Three this time, but we are prepared to present the winners. Here they are!

THE BIG THREE

1. Russell Cain.
2. G. R. Jewell, Jr.
3. Art Cushen.

Russell Cain stepped from third to first place by virtue of consistent, newsy reports. Hot on his heels were "Gil" Jewell and Art Cushen, with very good reports. Hal Tuncil, a newcomer, just missed the Big Three, and deserves honorable mention along with Fred Anderson of the Philippines, and Bill Petty, of Hawaii.

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).

Russell Cain hails from Reno, "Gil" Jewell from San Diego, and Art Cushen from far-off New Zealand, so we have all districts pretty well represented in the honor roll this month. Who's going to be our leader next issue?

THE BROADCAST BAND

T. BRANDON, EDMONTON, ALTA.—"Have been taking RADEX since 1933 and have every issue since then. I use a DeForest 5-tube, 1940 model, and a General Electric 8 tube set. My first DX was in 1922 on a home-made peanut tube radio. How many remember these old timers: WBAP when they were using 500 watts; WCAJ, using 15 watts, and KFKX, Hastings, Nebraska? CKUA will increase to 1000 watts immediately and go commercial. My best DX catches are CBA, CMQ, WSMB, WOOD, WASH, KWK, and KFAM."

BOB BROWN, GOSHEN, IND.—Bob bought the 23-tube Scott that Joe Lippincott has been using the last couple of seasons and says, "I hope I can live up to the reputation Joe and the set have established." (We have a feeling Bob will give a good account of himself.) He heard KENO, KERN, and KRE, all between 11:45 p.m. and 12:05 a.m., PST. He says, "I've been trying to identify a Spanish speaking station on 1130 k/c. The announcer sounds like a Mexican and they play American records. Could it be XEIP?" He also mentions 2YC is on 860 k/c and wonders how they could have interfered with 4QS on 760 k/c. He is right, and it's our mistake... 2YH was the station that interfered with 4QS, and as mentioned in last issue was changed to 750 k/c to avoid this difficulty.

FOREST L. WEBB, SALINAS, CALIF.—"CKLN were heard Nov. 17 with a DX program. WTAG was heard signing off at midnight. HOK was heard on an NNRC special at 12:15 a.m. on Nov. 22. WLAV was hard on a test program on Nov. 23. WHAI was heard signing off at midnight. 4QS, 4YA, 4QG, 2BL, 4QN,

2FX, 3WV, 1YA, and 3GI have all been heard. Leonard Shreve signs KDON veries. WJHO informs me that there has never been anyone by the name of Robert Donahue connected with that station, as stated in RADEX list of veri-signers. Robert B. Wilds, chief engineer, signs all veries. The call of the new Tampa, Fla., station is WKGA. KLS has "upped" its power to 1000 watts, and KARK to 5000.

HARRY H. JOHNSON, LOS ANGELES.—"CMQ, 690 k/c, was heard 3-4 a.m., with very strong signal. KYCA was heard testing 12 to 12:30 a.m. on Sunday morning, Nov. 24. They asked for reports outside the state, and in return will send a picture of their station. They come on the air at 6 a.m. KPPC at Pasadena can be heard on Sundays with a religious program. Their call letters signify Pasadena Presbyterian Church."

BOB DOOLITTLE, GLENDALE, CALIF.—"My specialty is police stations. Have tried for veries, but no response. Mebbe the 'cops' figure I shouldn't eavesdrop! Have logged over 132, including many UHFS. I use a Hughes Mitchell converter (specially adjusted) into a PHILCO all-wave receiver."

CLARENCE LEE MUSTOE, BRADY, MONT.—"KSAL verie was signed by the chief engineer, N. E. Vance, Jr. I am one who hopes the RADEX club gets pins, buttons, and stationery—at least one of them."

NORMAN L. MAGUIRE, ALBUQUERQUE, N. M.—"KOB will increase its power to 50000 watts. It is enlarging its transmitter facilities at this present writing. Our other local station, KGGM will increase its power to 25000 watts shortly, and its other station, KVSF in Sante Fe, will then use the old KGGM transmitter. Reception here has not been up to regular standards as yet. However, with a new receiver coming in a few weeks, I imagine that my DXing will pick up." Norman gives us a few veri-signers: KYAN-L. Peach: KNOW-

James E. Lewis, Chief Engineer; and KSUB-Sherman T. Wright, Mgr.

BILL PETTY, WHEELER FIELD, OAHU, HAWAII.—“I’ve just purchased a new HALLICRAFTERS SX28 receiver; boy, does it pull them in! Our December FCC tests I heard KWEW, KFIZ, WMPS, WAVE, KGHF, WJMS, KGCU, KFJM, WHDF, and KUOA. I heard KGBU behind KHJ on 900 k/c at 11:45 p.m. WGY was heard recently overriding KGO at 9:30 p.m.”

R. A. BUTTS, EASTON, WASH.—“The past season I logged 390 stations—77 on shortwave and 313 on BCB—we are expecting a new arrival in the near future. We are hoping for a son and if so I will make a real “DX hound” of him. RADEX surely is a live wire radio magazine. Keep up the good work.” (A later letter from Ray informs us that the new arrival was a son, born on Friday, Dec. 13).

H. H. CROW, JR., SACRAMENTO, CALIF.—“KENG verifies, signed by Bob White. KYAN, a Mutual outlet, was picked up through KRE, KTUC, KUJ, and goodness knows what else. KODL in The Dalles is on the air.” He would like to know how it is that he heard KGXC relaying CBC programs. Also, he has had no luck verifying KYCA, and wonders what experiences other DXers have had with this station. He would also appreciate hearing from anyone who has heard KOVO testing or has verified them this year.

FRED A. ANDERSON, FORT MILLS, P. I.—“Well, the DXing isn’t so bad here. So far I have logged 18 U. S. stations, 8 Australians, 5 Japanese, 6 Chinese, 5 South Africans, and one in Saigon, French-Indo China. I have verified (all BCB) KZRM, KZRH, KZRF, KZIB, KZRC (1200 k/c), JZL (590 k/c, JZL-4 (980 k/c) and ZET (1000 k/c) in Durban, South Africa. In the evening here from 8 p.m. I catch the U. S. stations signing on the air, a day behind Manila. I sure miss those FCC checks.” Just as Fred closed his letter he tuned in

KQW and they announced the time as 6:40 a.m., while Fred was ready to go to bed at 10:40 p.m., Manila time. Many of you will remember Fred as the soldier from Fort McDowell, Calif., whose report appeared in the Nov.-Rec. issue...at that time he said he was to leave shortly for Manila and that we would hear more from him after he arrived there. Well, Fred, we’re all glad to have you still with us, and now that you’re our “advance guard” in the Far East we’ll be counting on you to keep us posted on DX news from out that way, OM.

KEN WHITE, OAKLAND CALIF.—“I am fifteen years old and very much interested in radio. I started logging BCB stations on Dec. 1, 1940, and so far I have 57 from 16 states. The receiver I am using is a Howard, Model 400. I got my first RADEX about a month ago and like it very much.”

T. P. VASILOPOULOS, WEST LOS ANGELES, CALIF.—“KTOH has been heard, using my body as an antenna. KGMB, KGU, and KINY in Juneau, Alaska, were also heard... I’m breaking down the eight tube super, and building an 11 or 12 tube set with another stage of both R.F. and I.F., using a larger chassis.”

GEOGE HISS, WEST HOLLYWOOD, CALIF.—“I have heard 98 stations in 22 states on the BCB, including CMQ, CBK, CBY and a dozen Mexican stations. Because of my work, I do all my listening before midnight, using a six tube set.”

R. V. CALDWELL, NESKOWIN, ORE.—“KXL in Portland is on all night Saturday nights. Add KFVB to last issue’s list of all nighters on the West Coast. The following sign on at 5 a.m.: KSL, KDYL, KID, KVOD, KFKA, KFXD, KUTA, KTAR and KOA. KSFO, KTFI and KSFI are on at 5:30 a.m. Portland stations sign on the air as follows: KOIN, KEX, KGW, KWJJ, and KXL at 6 a.m.; KALE at 6:30 KBPS at 10:30 a.m., the later on the air only until 1 p.m. I heard a Spanish speaking station on 1230 k/ early in the

morning, but did not catch the call letters. In all I have logged 247 stations on the broadcast band since August. My best are WBT, WRVA, WEA, WALA, WTMJ, WILL, KSD, WMC and WMAX."

LIONEL JACOBS, PASADENA, CALIF.—"KHJ, the first Mutual station in California, has moved to new studios at 5515 Melrose Avenue, Hollywood. KHJ announced that Mutual now has 165 stations in their network. The old towers on the KHJ Building in Los Angeles will be turned over to shortwave work."

HAL TUNCL, BAKERSFIELD, CALIF.—"KERN is having some new cards printed, and will verify free of charge. XEAW's change to 1020 k/c has resulted in a considerable decrease in signal strength. Since I bought my first issue in September, 1939 I would be lost without my faithful copy of RADEX. My receiver is a HALLICRAFTER'S Sky Buddy, with a two-tube pre-selector."

BROADCAST BAND NOTES

KQW plans an increase on local programs for 1941, and a close-out on MBS programs. KQW will also broadcast the San Francisco baseball team's games in the Coast League next season, replacing KGO in this service.

Bob Brown sends us an interesting comparison on stations reported both last season and this year:

Station	Last Year	This Year
KMPC	No reply	Verified in 9 days
KGIR	No reply	Verified in 8 days
XEAC,	veri. in 100 days.	Veri. 8 days

Bob displays a good sense of humor in adding: "I wonder if there was that much difference in my reports?"

JFAK has shifted to 670 k/c from 750. 2NW, 750 k/c with 10,000 watts, will be a new station located at Man-in, N. Z. 4GY on 1350 k/c, located at Gympie, N. Z., will take the air early in 1941, while 2TM on 1300 k/c has rebuilt its transmitter, using a power of 2000 watts. (ARDXC).

A station in Tijuana was heard testing on Jan. 1, 2, and 3rd from midnight to 1:30 a.m. on 930 k/c. The first two nights the broadcast was entirely in Spanish, while on the 3rd the broadcast in English for the Los Angeles area. (Webb-Salinas).

KZRH, 710 k/c, Manila powered at 5000 watts, is on the air 2:30 p.m. - 7 a.m. KZRM, 618.5 k/c, has a broken schedule: 1:30-4 p.m., and 8 p.m. to 7:30 a.m. Powered at 1000 watts, KZRF on 780 k/c, transmits 2 p.m. until 7:45 a.m. KZRC, Cebu City, P. I., powered at 100 watts and on 1200 k/c, broadcasts 2-4 p.m., 8-9 p.m., and 1-6 a.m. (Anderson-Philippines).

KWIL heard on an equipment test in the early morning. They are on 1210 k/c and are located at Albany, Oregon. They operate with 250 watts power. (Crow).

KTKC now conducts a special program every night 11 p.m. to 3 a.m., sponsored by firms in Fresno. KLS in Oakland has been able to continue playing ASCAP tunes since the beginning of the BMI-ASCAP fracas. Canadian stations also play these tunes. (RF).

XEGM, Tijuana, authorized to operate on 950 k/c and heard by Bill Cunningham on 920 k/c, has been heard once definitely on 930 k/, covering KROW here. (Webb-Salinas).

SURVEYING THE SHORTWAVES

From the reports received this past winter, we would say we are in a very successful DX season as far as the Shortwave Broadcast Bands are concerned. More countries are being heard from, and the volume of reports is increasing steadily. But enough of this—let the fellows have the floor!

Argentins

LRA-1, Buenos Aires, 9688 k/, is being heard with strong signals from 5-9 p.m. English is used at sign-off. LRX on 9660 k/c is heard until 8 p.m. with fair signals, at which time QRM over-rides them. (Jewell). LRX logged QSA-5,R9 at 7 p.m. (Cain). LSX on 10,350 k/c was heard working NBC, New York, with R7 signals,

signing off in English at 8:15 p.m. (Tuncil).

Australia

The VK3 call was used by Victorian experimental stations which went off the air at the outbreak of the war. (Bishop). VLR on 9580 k/c, Melbourne, signed on at 12:30 a.m. with R8 signal, VLQ, 9615 k/c, was heard signing on at 12:25 a.m. in French with an R9 signal, in parallel with VLQ7, 11,880 k/c. The latter station replaces VYQ8, 17800 k/c, on the 9:55-10:45 p.m. broadcast. These stations are known as the ABC stations and are all located in Sydney, except VLR. To save time, reports should be sent to "Dept. of Information", 375 Collins St., Melbourne, C1, Australia. Veries will be sent to all reporting reception correctly. Jewell). VLQ on 9541 k/c is on the air only from 3:40-4:15 a.m., broadcasting from Sydney. (Anderson). VLJ7, 11880 k/c, was logged R8 with a news broadcast at 7:30 a.m. (Tuncil).

Bolivia

CP43, 15101 k/c, Cotagatia, was logged R6 at 6 p.m. (Cain).

Canada

CKFX, Vancouver, 10 watts, 6080 k/c, heard with good signals until midnight. CJCX, 6010 k/c, was heard opening at 4:30 a.m. CJRX, 11720 k/c, was heard closing at 10 p.m. (Cushen-N. Z.) CFCX, 6010 k/c, Montreal, heard with a weak signal at 7:15 p.m. CFVP, 6030 k/, relaying CFCN, put in a fair signal at 7 p.m. (Cain). CJRX, 11720 k/c, heard irregularly at 7p.m. with R6 signals, and some QRM with WRUL. (Tuncil). CFRX is on 6070 k/c with 1000 watts—their address is "The Rogers Radio Stations, Toronto, Ont., Canada." CFVP is on 6030 k/c with 100 watts relaying CFCN. Their address is "The Voice of the Prairies, Limited, Calgary, Alta., Canada." Their transmitter is at Strathmore, and they verify with a black and cream card—CFVP is typed above the old call of VE9CA. (Cain).

Chile

CB1174, Santiago, heard nightly on 11740 k/c with program of Latin dance music 6-7 p.m. CB1180 on 11945 k/c broadcast popular music 6-9 p.m. (Jewell). CB970 excellent until 8:30 p.m. on 9700 k/c. CB1170, 11700 k/c, heard testing until after 9 p.m. with a very good signal. CB1174 heard closing at 8 p.m. with "Marching Through Georgia." CB1180 excellent around 8 p.m. (Cushen, N. Z.)

China

XGOY on 9610 k/c from 6-6:30 in English. Veries are signed by Mr. Fung Chein, Director. Send all reports to "The Voice of China", Chungking, enclosing an IRC. XGOX reports should also be sent to the above QRA. XGOX is on 15200 k/c and 17,800 k/c, while XGOY is on 9610 k/c, 9650 k/c, and 11,900 k/c. They operate with a power of 35000 watts. (Jewell). YGRS, Shanghai, operated by the German Club, was logged on 11920 k/c with fair signals. (Cushen, N. Z.) XGRV, "Voice of China", located in Chungking, and operating on 11,418 k/c, broadcasts only 9-9:25 p.m. and 5-5:45 a.m. YPSA, Kweiyang, 6980 k/c, broadcasts on Sundays from 10 p.m.-6:55 a.m., and 3:30 p.m.-7:10 a.m. on weekdays. XGOY, 11900 k/c, began an English program to Western U. S. and Canada on Dec. 15th. The time is 9-11 p.m. daily. (Anderson). XGOY on 9630 k/c heard at 6a.m. with R7-8 signals. Sign-off is irregular. (Tuncil).

Colombia

HJCT, 9630 k/c, comes in good until 8:30 p.m. HJAB, 4780 k/c, puts in a fair signal at 7 p.m. (Cushen, N. Z.) HJDP, 4885 k/c, Medellin, heard weakly at 7 p.m. (Cain).

Costa Rica

TIX, 5830 k/c, closes with good signals at 9 p.m., playing "Goodnight." TIPG, 9620 k/c, heard with excellent signal, closing in English at 9p.m. TIEP, 6690 k/c, puts in a god signal until 9 p.m. (Cushen, N. Z.)

Cuba

COCY, 11500 k/c, excellent until sign-off at 10 p.m. COHI on 6455 k/c also heard. COK on 11570 k/c heard with god signals at 9 p.m. (Last issue of "Radio Guia" reports COK as temporarily off the air, but probably not for very long) COBS, 9030 k/c, also heard well at the same time. (Cushen, N. Z.) COCQ on 8850 k/c has been very good in the evenings. (Hiss). COCO on 8700 k/c heard with English program at 9 p.m. with very good signals. COHI on 6455 k/c comes in every evening with R9 signads. (Tuncil).

Dutch Guiana

A new catch was heard here several weeks ago—"The Voice of Paramaribo", on 11380 k/c from 3:30-5:30 p.m., located in Paramaribo. (Jewell).

HCJB, 12460 k/c, excellent at 6 p.m.

Ecuador

HCJB, 12460 k/c, excellent at 6 p.m. HC2ET, 9190 k/c, closes with English at 8 p.m. HC1GQ, 9170 k/c, is good at 8 p.m. (Cushen, N. Z.) HCJB is very good 6-7:30 p.m. (Hiss). They are heard every evening except Monday with R8-9 signals. (Tuncil).

Egypt

SUX, 7860 k/c, Cairo, came in very weakly at 3:50 p.m. on a relay to CBS. (Cain). Let's have more reports on this fine DX catch!

England

GSV, 17810 k/c, heard at 12:15 a.m. (Petty-Hawaii). GSP, 15310 k/c, and GSI, 15260 k/c, are heard during the daytime in parallel. The former is usually R8, while GSI averages R6.

Fiji Island

VPD-2 on 9536 k/c at Suva is still being heard with fair signals with recorded music from 9-9:15 p.m. and news in French 9:15-9:30 p.m., relayed from London. Sign-off at 9:30 is in English. Send reports to Amalgamated Wireless, Ltd., Suva, Fiji Islands. (Jewell). A later report from "Gill" Jewell reported receipt of a veri from VPD-2.

French Indo-China

"Radio Saigon", 11,780 k/c, preits news in English at 3:45 a.m., 6 a.m.,

and 7 a.m. (Anderson).

French Equatorial Africa

"Radio Brazzaville" on 11970 k/c, powered at 5000 watts, are on almost daily from 10-10:30 p.m. and 12:30-1 p.m. They announce as 'Ici Radio Brazzaville', Viva General de Graulle and France Liber." Their address is Service de la Presse et de Informations de Government General, Brazzaville, French Equatorial Africa. (Cain).

Germany

DJE, 17760 k/c, was heard at 12:15 a.m. with an English program. (Petty-Hawaii). DXB, 9610 k/c, and DJB, 15200 k/c, put in very good signals here. (Tuncil).

Greece

SVJ, 9825 k/c, is the only station from this country reported heard in New Zealand. Powered at 20,000 watts, it was heard at 6a.m. with a very weak signal. (NZDXC).

Guadeloupe

FG8AH, 7445 k/c, located at Pointe-a-Pitre put in a weak signal at 3:45 p.m. with announcements in English. (Cain).

Guatemala

TGWB on 6480 k/c is heard nightly with fair signals. Marimba music is heard from 8-8:30 p.m. on Mondays, Thursdays, and Saturdays. QSL received in three weeks signed by the English announcer, Roberto Jordon. (Jewell, Tuncil). TGQA, "The Voice of Quezaltenango", 6190 k/c, verified with a nice card after exactly a year's time. (RF).

Hawaii

KKH and KKS at Honolulu heard on 7600 k/c 8-8:30 p.m. on Sundays with an extremely strong signal. (Johnson)

Honduras

HRN, 5870 k/c, heard well until 9 p.m. (Cushen-N. Z.)

India

VUD-2, 15290 k/c, Delhi, heard at 7:15 p.m. with news bulletin in English. (Matzen)

Italy

2R43, 9630 k/c, comes in with R9 signals during the daytime, and very

weakly during late evening hours. 2RO4 verified with the usual EIAR card, colored gray and red. (Tuncil)

Japan

JZI, 9535 k/c, heard 9-10:30 p.m. and 5:30-6:30 a.m. with strong signals. JZJ, 11800 k/c, heard in parallel on both transmissions. (Jewell) JZI heard at 6 a.m. and 10 p.m. (Johnson) JLG4, 15105 k/c, heard testing 6-7 p.m. JLU3, 15135 k/c, heard in the evenings. JZI heard with news in English 11:30-11:55 p.m. (Petty-Hawaii) JZI and JZJ heard testing with recorded music and asking for reports at 8:30 p.m. (Hooker, Hiss) JVZ, 118515 k/c, and JLG4, 15105 k/c, heard with loud volume. Time—? (Cain, Tuncil) JVA, 18910 k/c, Tokyo, was heard contacting KWE, San Francisco, on December 27th. (Benedict)

Java

JYDA, 3040 k/c, YDA, 9550 k/c, YDC, 15150 k/c, PLP, 11000 k/c, and PMN, 10260 k/c, are all on the air 7:30-11 p.m. and 1:30-7:30 a.m. (Saturday until 8:30 a.m. and 3-4 30 p.m. during the week. On Sundays they broadcast from 4-11 p.m. and 1:30-7:30 a.m. PMH on 6720 k/c broadcasts oriental programs exclusively. (RX)

Manchukuo

MTCY on 9545 k/c and 11775 k/c at Hsingking is being heard in the mornings until sign-off at 7:30 a.m. in English. MTCY on 11775 k/c broadcasts in English 10:30-11:30 p.m. (Jewell) MTCY logged recently on 9545 k/c. Their signals were very weak. (Tuncil)

Martinique

"Martinique" heard at 4 p.m. with weak signals. (Cushen-N. Z.)

Mexico

XEQQ, 9680 k/c, has good signals closing with English at 10 p.m. XEBT, 6005 k/c, heard with good signals at 9:45 p.m. (Cushen-N. Z.) XEWW on 9500 k/c is heard here every evening with Q5, R9 signals.

XEBR on 11826 k/c has a strong carrier hum, but comes in R9 every day. (Tuncil)

New Caledonia

Veri received recently from "Radio Pacifique." They use 100 watts on 7280 k/c and have also been heard on 6480 k/c with short news sessions in French at noon and 4 p.m. They open with the march "La Chant du Depart." They will shortly put a one-kilowatt transmitter on the broadcast band. (Cushen-N. Z.)

Panama

HP5J, 9600 k/c, has good signal until 7:30 p.m. HP5G, 11770 k/c, heard closing at 7 p.m. HP5A, 11700 k/c, heard well until 8 p.m. (Cushen, N. Z.) HP5G heard with American dance music and English Announcements at 6:30 p.m. Signal was R7. (Hooker) HP5A verified with a plain card, printed in Spanish in black and white. HP5G on 11780 k/c heard QSA-5, R8-9 with some QRM. (Tuncil) Power of HP5A is 800 watts is 800 watts. They broadcast on 11700 k/c 4-10:30 a.m., and 2-8 p.m. Their address is Apartado Numero 954, Panama City, Panama. (Cain)

Peru

OAX5C on 9440 k/c at Ica is being heard nightly with fair signals 6-8:30 p.m. Programs are relayed from Buenos Aires. (Jewell) OAX1A, "Radio Delcar", closes at 9 p.m. OAX4Z, 6082 k/c, was heard very well at 10 p.m. OAX4T, 9560 k/c, was heard in parallel with OAX4Z. OAX4P, 5970 k/c, heard with good signals at 8 p.m. OAX4G, 6190 k/c, puts in a good signal until 11 p.m. on Saturdays. Cushen-N. Z.) OAX4J verified with an envelope which opens up, and is printed in black and orange. They are on 9340 k/c. (Tuncil)

Philippine Islands

KZRH on 11890 k/c is a new transmitter operating from 8-9 p.m. in English, directed to the U. S. A. QSL is a brown card printed in black and dark brown, signed by Mr. B. H. Silen. Address is Heacock Bldg., Escolta, Manila, P. I. (Jewell) KZRH on 9540 k/c broadcasts from 2 p.m.-

8 a.m. KZRH then has an international broadcast on 11890 k/c from 8-9 a.m. KZIB on 9500 k/c broadcasts from 2:30-10 p.m. and on 6043 k/c from 10:30 p.m.-7 a.m. KZRM on 9570 k/c broadcasts from 1:30-4 p.m. and 8 p.m.-7:30 a.m. KZRF on 6140 k/c is on the air 2 p.m.-7:45 a.m. KZRC, Cebu City, broadcasts on 6100 k/c 2-4 p.m., 8-9 p.m., and 1-6 a.m. (Anderson) Manila will soon have a new 20 kilowatt transmitter, but I have no real dope on it yet. Anderson)

Portugal

CSW, 11040 k/c, breaking through to Pacific Coast R8 between 9 and 9:30 a.m. (IRM)

Russia

RV15, 4273 k/c Khabarovsk, heard with loud volume at 4:47 p.m. (Cain)

San Salvador

YSP, 10400 k/c, is excellent until 9 p.m. (Cushen-N. Z.)

Straits Settlements

ZHN, Singapore, 7250 k/c, is operating simultaneously with ZHP on 9690 k/c. (Breen-N. Z.)

Switzerland

HBQ heard on relay to CBS. They are on 6675 k/c. Time heard not mentioned. (Cain) HBO, 11402 k/c, transmits to South America Mondays and Wednesdays, 3:45-5:10 p.m. HBO and HBL, 9345 k/c, broadcast for North America Mondays and Wednesdays 5:45-7:10 p.m. HBO broadcasts to Africa Tuesdays and Saturdays 9:45-11:10 a.m. HBH, 18480 k/c, is on the air for the Orient 5:45-7:10 a.m. on Wednesdays. HBO and HBJ, 14535 k/c, transmit to Australia 6:45-7:10 p.m. on the first Sunday of the month. Power of all transmitters is 20 kilowatts. (Cain)

Taiwan

JIE-3 is on approximately 9600 k/c. (Jacobs)

Thailand

HSP6 is on the air daily except Monday from 5-7 a.m. and HS6PJ is on Mondays from 5-7 a.m. Their power is 10 kilowatts. An old station, HS8PJ, 9510 k/c, has been replaced by HSP5, 11715 k/c. HS6PJ is on 19020 k/c, with transmitter at Saladoeng, Bangkok, Thailand. My veri from HSP5 stated mine was the first report from Reno. (Cain)

Turkey

TAP, 9465 k/c, Ankara, heard with R8 signal 11:30-11:45 a.m. with male and female announcers giving news broadcast in English. (Hooker, Cain)

Union of South Africa

ZRL at Capetown verified promptly with a very cordial letter and an attractive SABC card, with printing in green on a yellow background. Their frequency was listed as 9606 k/c, though they seem to be heard about 9615 k/c. They announce the only stations now using English are the two low-powered Durban transmitters, ZTD on 4878 k/c, and ZRD on 6147.5 k/c, both powered at 500 watts. The power of ZRL is 5000 watts. They said they do not get as many reports as formerly from the United States on ZRL since they started broadcasting only in Africans. (RF)

United States

WRUW, 11730 k/c, heard on Friday nights until 10:30 p.m. testing for the West Coast with WRU1, 6040 k/c. KGEI, 9670 k/c, hopeless until WRCA signs off at 10 p.m. (Cushen-N. Z.) WNBI heard all day on 11890 k/c. (Petty-Hawaii) WLWO came booming in on 15250 k/c, 10-11 a.m., using 75000 watts power. WGEA transmits daily on 6190 k/c from 7:30-8:30 p.m. (RF)

Uruguay

CXA-8, Colonia, heard on 9640 k/c at 8:30 p.m. (Cain)

Venezuela

Good signals are heard in the 60 meter band at 7 p.m. Reports are out to YV5RO, YV5RH, YV5RM, YV3RX. (Cushen-N. Z.) YV5RH,

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

4920 k/c, YV5RK, 5000 k/c, YV5RO, 4940 k/c, YV5RT, 4980 k/c, YV6RT, 4900 k/c are all deleted. New slogans are: YV3RX — "Radio America"; YV5RU—"Emisoras Unidas Ondas Populares-Estudios Universo"; and YV6RC — "Emisora del Estado." YV5RJ, "La Voz de la Patria", has changed call to YV5RX, but uses the same slogan. (RX)

Yugoslavia

YUG on 15240 k/c is heard irregularly with good signals. (Tuncil)

THE MIDDLE BAND

The call letters of the cutter "Itasca" is NRVI, but I have been unable to find their frequency. KNBC and KNCA heard around 4500 k/c in the daytime. KSW, Berkeley police, heard on 1658 k/c. Potters Field station, 390 watts, heard on 4220 k/c.

AMATEURS

KC60KS is the only known Wake Island station—the same for KB4FCS of the Virgin Islands. (Jacobs)

W4XA verified with Brown and cream card. They were heard relaying WSM from 4-4:30 p.m., and are on 26, 150 k/c. W5XAU, 26125 k/c, heard around 5 p.m. relaying WKY. They verified with red and cream card—their address is Skirvin Tower Hote, Oklahoma City, Oklahoma. (Sutherland)

ULTRA HIGH

W4XA has been heard here on the UHF, 26,150 k/c. Could anyone tell me the whereabouts of a W5— on 26,000 k/c? The above is from Charles Benedict, 2226 Casitas Avenue, Altadena, Calif.

W5XAU, 26125 k/c, heard R6-9 with considerable QRN. They relay WKY and verify by card. W9XPD, 25900 k/c, relaying KSD, verify by letter. (Tuncil) Hal Tuncil says W4XA does not verify, while Ivor Sutherland has verified them. Try again, Hal!

THE PIGEON HOLE

D. L. Bishop, Liberty, Sask., answers Allan Cadourath: "WMI operated on several frequencies, 8585 k/c being one of them. They broadcast a Great Lakes weather report at 8

a.m. and 7 p.m. (PST) They verify promptly."

Greeting to Art Cushen in far-off New Zealand! Art, who is the short-wave editor of the New Zealand DX Club, sends in a fine SW report for this issue, and further gladdened the heart of yours truly by using PST throughout!

Mervyn Branks of Invercargill and Cyril S. Belshaw of Auckland also are doing their bit to keep New Zealand at the "DX front." Reports from both appeared in the last issue. All three are RADEX club members. And a hearty hello to Alan I. Breen, from out the same way! Alan is an honorary member of the club.

Harry C. Powell of Portland, Oregon, uses an RCA 8-K, and would like to correspond with other RADEXERS who have the same type of receiver. From his location he has logged all the 50,000 watt stations in the country and many smaller ones.

Allen G. Hooker compiles his short-wave DX with a 3 tube SW3. Thanks for your frequent reports, Allen— please kee up the good work, OM.

Bill Petty of Wheeler Field, Oahu, Hawaii, is in the U. S. Air Corp., is 26 years old, and has been DXing since 1934, though not consistently. He has VAC on SW, has logged 170 stations on the BCB in the past two years while in the Islands. Before then he "burned the midnight oil" in Virginia, but his DC activities are now somewhat limited. Thanks, Bill, for your holiday greetings! Thanks also to Mert eMade and Ray LaRocque for you attractive and unique Christmas cards.

Forrest L. Webb sent one report to XEAW and got THREE cards all alike.

Eugene Allen has purchased a new HALLICRAFTERS SX-25, fifteen tubes, and now sports the most powerful set among East Bay RADEXERS, since Larry Yarnes' 23-tube Scott is in his home in Oregon, and while attending school at the University of California he is using a five

tube Philco.

Charles Benedict of Altadena, Calif. has been DXing for only one month. He tunes a HALLICRAFTERS six tube model, with doublet antenna and directional preselector.

Lionel Jacobs, a pen pal of Rus-

sell Cain's DXes with a 1940 Zenith and a Philco. He has a log of 617 on SW and BCB, plus about 1000 "hams."

Russell Cain of Nevada has a VFB card, and will send them out for return postage.

LIST OF REPORTERS

RF	.....	Your West Coast Editor	
RX	.....	Official News Item	
R636	.....	Norman L. Maguire	Albuquerque, N. M.
R834	.....	G. R. Jewell, Jr.	San Diego, Calif.
R881	.....	Clarence Lee Mustoe	Brady, Montana
R1043	.....	William S. Petty	Wheeler Field, Hawaii
R1098	.....	Ted E. Matzen	Miles City, Montana
R1151	.....	Robert Brown	Goshen, Indiana
R1213	.....	H. H. Crow, Jr.	Sacramento, Calif.
R1815	.....	G. H. Tuncil	Bakersfield, Calif.
R1829, Nev.-2	.....	Russell Cain	Reno, Nevada
R1849	.....	A. G. Hooker	Liberty, Sask.
R1885	.....	D. L. Bishop	Liberty, Sask.
R1905	.....	Forrest L. Webb	Salinas, Calif.
R1906	.....	Ivor Sutherland	Mill Valley, Calif.
R1919	.....	George J. Hiss	West Hollywood, Calif.
R1922	.....	Harry H. Johnson	Los Angeles, Calif.
		Art Cushen	Invercargill, N. Z.
		Fred A. Anderson	Ft. Mills, P. I.
		Charles Benedict	Altadena, Calif.
		Tom Brandon	Edmonton, Alta.
		Alan I. Breen	Dunedin, N. Z.
		R. A. Butts	Easton, Wash.
		R. V. Caldwell	Neskowin, Oregon
		R. D. Doolittle	Glendale, Calif.
		Lionel Jacobs	Pasadena, Calif.
		Harry C. Powell	Portland, Oregon
		T. P. Vasilopoulos	West Los Angeles, Calif.
		Ken White	Oakland, Calif.

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The Radex Publishing Co., Emerson, New Jersey

The Radex Contest

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 one year

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

A tabulation of the Contest coupons received to date shows a close race in two divisions of the Radex Contests. The leaders in the Broadcast and the All-Wave Divisions are closely bunched together, but the first place occupants in the Shortwave and Amateur Divisions are running away from the pack. But a lot can happen yet,

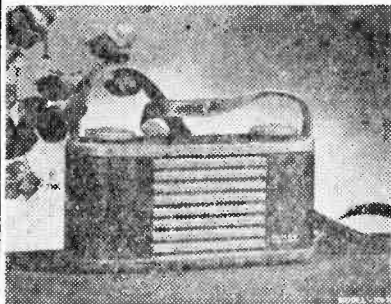
For The Broadcast Band Champion

PHILCO

The PHILCO Corporation, Tioga and "C" Streets, Philadelphia, Pa., has donated a strap-around portable radio, Model 89-C, to be offered as a prize.

This portable radio plays anywhere, and is ideal for hikes, picnics, at the beach, wherever you go, indoors or out. It is truly a tiny package of "dynamite" in performance, with the power and fine tone of a radio many times its size. The aerial is contained in the shoulder strap. It is extremely light in weight, and its smart, plastic case recently won one of the top awards in the Modern Plastics Contest in New York City.

The PHILCO strap-around portable radio will be offered to the winner of the Broadcast Band Championship division of the contest.



and the picture presented when the second batch of coupons comes in may be an entirely different one.

In the All-Wave Division, Ed Laudansky, of Dorchester, Mass. is leading, with 115 points. Not far behind is Donald Fraser of Detroit, with 96 points, and in third place is Bill Scott of Johnson City, Tenn.

Harold Hutton of Rome, N. Y. stands at the top of the Broadcast Band Division, registering 415 points. Weston Richards of Zion, Ill. follows

with 340, and in third place Chester Stedman of Westerly, R. I. comes up with 243 points.

Because of the distance that verifications have to travel, the Shortwave Division has barely gotten a start. By the time our next issue is out, however, a lot of verifications ought to be back and this Division will look more lively. Leading at present is Al Renfro, Jr. of Johnson City, Tenn., with 12 points. Ed Laudansky is in second place with 4 points. Many contestants are tied for third place with 1 point.

Mike Unger of Detroit is running away with the Amateur Contest, showing 228 points, more than 200 points ahead of the second place contender, Harry O'Meara of Manchester, Mass. Merton Meade of Kansas City, Mo., brings up third place with 18 points.

One reader asks why we do not count CW (code) stations in the All Wave Division, "because," he says, "this really places a handicap on us poor CW listeners." Well, to tell the truth, we'd like to do it, but we think if we did it that we would be placing a heavy handicap on those hundreds of listeners who do not read CW.

And now, a letter from a reader who compliments us, by telling us that our prize awards will not be properly distributed. "The only thing wrong with the contest", Bob Gilchrist of New York City writes, "is that the prize goes to the wrong person. Anybody who comes in ahead of the pack must already have a pretty good radio. But I guess there's no escape from that; you can hardly award a Hallicrafters as a booby prize." Bob's right, of course; the chap who comes in last needs the Hallicrafters the most.

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, 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 our last issue, the RADEX Contests cover four divisions of DXing: All Wave, Shortwave, Broadcast Band and Amateur. The Contest began on October 1st, 1941, and will continue until September 30, 1941, and as soon thereafter as possible the name of the winners will be published in RADEX.

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
<i>(Column A times</i>			
<i>Column B equals</i>			
<i>Column C).</i>			

Name

Address

City and State



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

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.

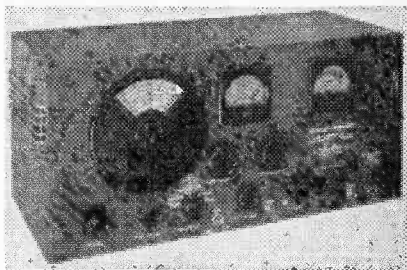
Only one verification from each station will be accepted. If a station works on several frequencies, employing the same call letters on all frequencies, it can be counted as a separate station for each frequency, PROVIDED the frequency on which the station was heard is clearly shown on the verification.

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 receives his verification with a Radioland stamp on it, it will still be

**FOR THE ALL-WAVE
CHAMPION**

HALLICRAFTERS



Through the courtesy of Mr. Royal Higgins and Mr. W. J. Halligan, The Hallcrafters, 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.

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.

New Prizes

Through the courtesy of Erick R. Johnson, contestants may now compete for a third prize in each divi-

sion. The Director of the World DX Alliance, Mr. Johnson, has offered a one-year membership in the Alliance and a year's subscription to their bulletin, to the third prize winner in the All Wave, the Amateur and the Broadcast Band Contests, and to the second prize winner in the Shortwave Contest.

All Wave Division

The person who receives the greatest number of points from all radio stations using voice, from 500 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 receives 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.

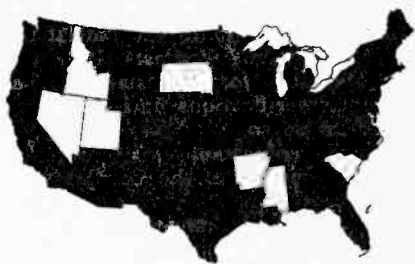
SEND STANDING NOW

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, Emerson, N. J. Each coupon may be

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

The Radex Club



By ANNE TENNA

Since the last meeting of the Radex Club, 169 new members have been enrolled, bringing the total membership up to 2104 active DX fans from every walk of life, from every part of the continent. The growth of your club is due in no small measure to the very fine cooperation of many of the members who are making their friends acquainted with the fascination of DX.

Al Renfro, Jr., of Johnson City, Tenn., has set a goal of ten new members from his city; Stanwood Mors of Bradford, Mass., has sent the names of several fans to headquarters, and members in several other localities are trying to start local chapters. All we can say is: FB (and FB means "fine business.")

Outstanding among requests for membership recently were a letter from an XYL who complained that her husband had overlooked the fact that she, too, is a DX hound when he sent in his own application for membership; from Julius Hart, announcer at WIBM in Jackson, Mich.; and one from Jose Carriazo, Jr. of Havana, Cuba, shortwave editor of Radio

Union Magazine.

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.

DX Calendar

The winners of the WBAB DX program of January 18, 1941, are as follows:

First telephone call was received from Bernard Duffy, Staten Island, N. Y. The first telegram was received from Nick Woytan, Syracuse, N. Y., and the most distant telephone call was from Marion Merton, Virginia Beach, Va.

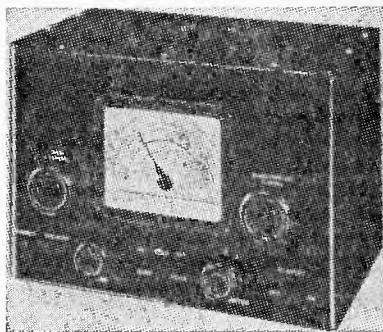
Special programs to be broadcast in March will be as follows, all time being EST.:

- March 9, 1:45-2:00 a.m., TG1, Guatemala City, 1310 kcs.
March 9, 1:45-2:00 a.m., TG2, Guatemala City, 6190 kcs.
March 11, 4:45-5:00 a.m., KTOK, Oklahoma City, 1370 kcs.
March 12, 4:25-4:40 a.m., WKST, New Castle, Pa., 1250 kcs.
March 12, 4:35-4:50 a.m., WJLS, Beckley, W. Va., 1210 kcs.
March 20, 3:00-4:00 a.m., WCNC, Elizabeth City, N. C., 1370 kcs.
March 24, 3:00-3:15 a.m., WINN, Louisville, Ky., 1210 kcs.
March 24, 5:30-6:00 a.m., WPID, Petersburg, Va., 1210 kcs.
March 26, 5:00-6:00 a.m., WCOA, Pensacola, 1340 kcs.
April 4, 3:00-3:15 a.m., KWAT, Watertown, S. Dak., 1210 kcs.
April 5, 2:30-3:00 a.m., WFPG, Atlantic City, 1420 kcs.
April 7, 5:00-5:30 a.m., WJLS, Beckley, W. Va., 1210 kcs.
April 9, 4:35-4:50 a.m., WJLS, Beckley, W. Va., 1210 kcs.
April 13, 1:45-2:00 a.m., TG1, Guatemala City, 1310 kcs.
April 13, 1:45-2:00 a.m., TG2, Guatemala City, 6190 kcs.
April 23, 5:00-6:00 a.m., WCOA, Pensacola, 1340 kcs.

REAL Short Wave RECEPTION

with
NEW
ECHOPHONE

Commercial



Only
\$19.95

Think of an outstanding communications receiver for this exceptionally low price! TUNES FROM 545 kcs. to 30,500 kcs. IN THREE BANDS AND COVERS STANDARD BROADCAST and has a beat frequency oscillator for locating weak stations, self-contained speaker, headphone tip jacks and directly calibrated dial with various channel services marked. Other features are: AC/DC operation, 115/125 volts, electrical band spread on all bands, dial calibrated in megacycles with all important service bands indicated band spread logging scale, complete isolation for headphones through phone circuit transformers and undistorted power output 6/10 watts.

Receiver is housed in a metal cabinet nicely finished in satin black lacquer. Size is 7½" high x 10½" wide x 7¾" deep. Shipping weight 12 lbs.

Write for Free Literature

Price Complete With Tubes is Only \$19.95

Order from
RADEX

12 Locust Ave. Emerson, N. J.

High Frequency Globe Trotting

By RAY LA ROCQUE

Report-O-Meter

Norman H. Kane	100%
Edward Laudansky	67%
Malcolm Horlick	36%
Al Renfro, Jr.	31%
Walter E. Welsh	31%

Except for Ed Laudansky, the meter this month carries a list of new comers, chief of which is Norman Kane from out Pennsylvania way who blasted his way to the top with some choice reporting. Honorable mention goes to Art Hankins, Art Stevens, and Arnold F. Worme. Try again next month, boys.

Our sincere apologies for not being able to have the Report-O-Meter last month. For those interested, here's how the meter registered last month: Robert Skyten—100%, Edward Laudansky—47%, Charles Meyers—46%, William McMahon 40%, Fred Borchertd 36%. . . . And the boys who missed our list of acknowledgements at the end of this department last time, we include this month both the reporters for this issue and last.

Interest in the shortwave section of the big RADEX contest doesn't seem to measure up to that displayed on the broadcast and ham bands. How about more activity, boys?

ASK US ANOTHER

A. M. Hankins of Latrobe, Penna. wants to know if Radio Eiran in Eire is still on the air, and what their actual schedule is. . . . For those who are waiting for "Radio Guadeloupe" to verify, Art Hankins pens the encouraging note that he received his after waiting 1 year and 10 months! . . . Stations heard on 13000 kcs., and 14500 kcs. with speech sounding like Japanese or Chinese. This signal was heard by Chas. O. Peach, 6416 Kingshighway, St. St. Louis, Mo. from 9:30-10 p.m.

Quoting this time, from Mrs. John Matthews, Lenox, Mass., "I got a Canadian station on 5600 kcs. and lis-

tened for forty-five minutes but never their call letters or location—though they were loud and clear. They signed off with a siren and called themselves 'The Northern Broadcasting Company'. . . . The station on the 31 meter band coming on at 11:45 p.m. with exercises is undoubtedly ZRL in Klipheuvall, So. Africa. This for the benefit of Edward R. Omelian of Watersmeet, Mich.

The QR's of stations W2XJI and YNDG are required by Jack Stephenson, 2721 W. 21st., Oklahoma City, Okla. (W2XJI can be addressed in c/o the Bamberger Broadcasting Corp., Newark, N. J.—RL) . . . Information on a Spanish speaking station on approximately 12140 kcs. is desired by Vernon Gibbs, Lexington, Ky. . . . And, H. H. Chambers of "Faraway," Narragansett, R. I. would like someone to solve the mystery of the interference he gets on GSC, caused by WLWO. (WLWO is now using that channel according to a recent grant by the FCC.—RL)

There is a station in El Salvador on 6590 kcs. which sometimes uses English announcements. Signal is very strong, often much louder than COHI. It apparently relays some broadcast band station and signs at midnight with a national anthem. This from Norman aKne of Drexel Hill, Penna.

Charles Meyers of 3643 W. Flournoy St., Chicago, Ill. asks a couple of questions and supplies a couple of possible answers for confirmation. A

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

Ray LaRocque
105 Highland St.,
Worcester, Mass.

(Please use EST in reports)

station announcing as "Radio Rabat" on 9885 kcs. may be CNR testing on a different frequency. Music and speech on 12120 kcs., may be TPZ in Algiers, Algeria. . . . Mae McKenzie of 823 Shelby St., Indianapolis, Ind. wants to have a French station on 12045 kcs. identified. The station came on at 3:35 p.m. and signed oz at 4:10 p.m. with "Bonsoir, messieurs, bonsoir mesdames."

Roy Riedel, 725 Bellview Place, Indianapolis, Ind. starts our department off with an answer. It is for William McMahon and concerns a station on 11400 kcs. It is Paramaribo, Suriname—whether or not it uses the same call as the 6800 kcs. station (PZH) is not known, but it is definitely heard late in the afternoon. The station on 11970 kcs. may be HI2X and the French speaking station on 9890 kcs. is HH3W (9890 kcs.) in Port-Au-Prince, Haiti.

Perhaps some kind RADexer can help H. Mandel, 12625 Notre Dame E., Montreal, P. Q. with this one. We'll let him tell you about it: "The station comes on the air Sunday evenings about 6:45-7:00 p.m. playing a march. Program continues with talking in Spanish or Italian and oriental or arabic type of music. This lasts for about an hour. Heard often during the broadcast were 'Republica Dominicana' and 'Palestine'."

QUOTE AND UNQUOTE

Bob Hetzel, 1327 N. 18th Street, Milwaukee, Wisconsin: "I first read one of your magazines the other day and liked it very much. I have been a DXer for four years and have managed to verify 108 countries. My better catches verified are XGAP, FK8AA, ZUN (only one in the U. S!), Radio Leo, YCP, ZNB, XYZ, CR6AF, ZB2B, CR7BH, and many more."

Bill Scott, 313 W. Holston Ave., Johnson City, Tenn: "I would like to get some information on obtaining cards from CW commercials. I hate to hear some stations like CUT, JUI, XDA, FZG and the like without being able to get their cards." (I don't

believe these stations have cards and if they did it would be risky business writing them as most of the time they are transmitting information that is confidential and penalties for divulging this information are steep—RL)

Arnold F. Worme, 6876 Sherbrooke St., West Montreal, P. Q: "I have been DXing on the shortwaves for nine months and have logged 90 odd stations from the six continents. My first veri card came from PSH and is white with a blue map of Brazil."

Charles Squires, 606 West 135th St., New York, N. Y.: "Tell all Radex readers that I reply 100% to SWL's and to foreign readers who write in English, I will send with my card, ten different post card views of New York, N. Y."

Dick Knoth, 115 Mt. Vernon Ave., West View, Penna.: "I have just finished the last edition of RADEX and let me say that it is really a magazine. I have been DXing 8 months, and between a 1937 PHILCO and an SX-24 HALLICRAFTERS, I have done a lot of listening."

Harold Satterthwaite, 3166 Midvale Ave., Palms, Los Angeles, Calif.: "Here is a phenomenon with which I feel Radex readers should be acquainted. The environs of San Diego, Calif. have an extremely freakish characteristic in the form of the ability to receive short wave signals from great distances. As far as I know, no other location in the United States has such characteristics. Then too, at National City, so called suburb of San Diego, just north of the city, conditions are just reversed. Here it is possible to receive standard broadcast signals from great distances. This caused me much grief as I was following reports in RADEX from a reader in this locality. Stations which he reported with strong signals were not even audible on mine. Until I found out about this situation, and after carefully checking my receiver I had lost a little interest in DX!"

Al N. Cole, Jr., 3005 Buckingham St., Norfolk, Va.: "Why not ask the leaders of the Report-O-Meter to send in the age and make of their receivers and how many countries and states that they have heard? I got a new Howard 435 receiver for Christmas."

Norman H. Kane, Jr., 3721 Bonsall Ave., Drexel Hill, Penna.: An interesting letter accompanied the veri card from HP5G. George Williams, in his letter, states that he puts on 'special DX'ers programs' and continues 'if you want one for your magazine or town I would be glad to carry out this idea for the good will of Panama and the U. S. A.'"

Thomas Woodbury, 152 Leavitt St., Hingham, Mass.: "WBZ has opened their new short wave station, WBOS, which went on the air New Year's Eve and is now broadcasting daily to Latin America."

Bernard F. Arnold, 994 Celma Ave., Akron, Ohio: "I have just bought my second issue of Radex and to my knowledge it is the best magazine out. I have been a shortwave listener for about eight months. Some verifications I have received are JZK, TGW, COBZ, CHNX, COK, HP5A, etc. I use a Silverstone receiver."

Fred Benkley, Jr., R1773, China Spring, Texas: "Although I have been a RADEX reader for almost a year, this is my first report to your column. My DXing interest developed without outside stimulation during about two years, as I have never corresponded or been acquainted with any other DXers. I DX on the broadcast band and shortwave broadcast frequencies with a Howard 430. To Arthur Stevens who failed to receive a veri from TGWA, I would like to say I sent a postal card report and received a veri in two months and twenty eight days. I would appreciate some hints on short wave aerials as I have not been able to secure an aerial which offers suitable reception on all short wave bands. I have tried RCA 395 and RCA "Spider Webb" types. The former is suitable for 25

and 31 meters, but not as good on 16, 19, and 49 as a single wire type."

NOT SO SHORT WAVES

It seems that a group of DXers whose interest centers on the commercial bands that fall between the standard broadcast and the shortwave broadcast bands have organized what is called the COMMERCIAL RADIO ROUND TABLE. The organization, through its guiding hand, Chet Roman of Chicago now issues a monthly bulletin that is full of reports and facts about these little known stations. To devote enough space in this department in RADEX so as to include even one-fourth of the material sent in by members of the Round-Table would take up much more space than we can follow for "Not-So-Short Waves." It must be understood that only a small minority among the DX fraternity listen to these bands and we must arrange our news accordingly. It would be appreciated, in making reports for this department, if the reader would kindly include only his important items instead of a complete list of what has been heard. In this manner, we would be able to list herer, each month, the most important facts and changes.

The number of reports received for this column from different readers in comparison with the total number of reports received for the entire short wave department will determine how much space this department shall occupy.

KYZF located at the Emigration headquarters of the Border Patrol in Alpine, Texas on 5912 kcs. was heard testing on a Sunday night with R7 signal. (Arnold—Ohio)

WAR, the War Dept. station is now working amateurs as follows: from 7-8 p.m. on Tues., Thurs., and Fri.) for hams from 3500-400 kcs. . . . from 10-11 p.m. on same days for hams from 14000-14400 kcs. WAR will use 4024 kcs. for the 3500-4000 kcs. hams, and 13320 for the 14000-14400 kcs. hams. They will call CQ, followed by the band and ZCAA. . . . NOQ on 2662 kcs. is a U. S. C. G. station now

located at Mobile, Ala. and has weather reports at 11:20 a.m. and p.m. (Bennett-N. J.)

WANA on 2726 kcs. at Homerville, Ga. was heard testing Jan. 10, '41 at 9:15 p.m. The correct QRA is Consolidated Timber Protective Organization, Homerville, Ga. . . . (Wells-Ont.)

"Cutter Hyacinth" heard talking with Charlevoix, Mich. on 2670 ks. . . . Canadian airport stations in Montreal, Ottawa, Toronto, and North Bay heard on about 4350 kcs. (Richards-Ill.)

Six special emergency stations of 50 watts are operated portable by the Bell Telephone Co. They are KQIP on 2590 kcs. in Dumas, Tex.; KQIO on 2590 kcs. in Amarillo, Texas, KQCA on 27526 kcs. at Borger, Tex., KDXC on 2726 kcs. at Amarillo, Texas; KQXZ on 2836 kcs. at Hereford, Texas; and KQXY on 2836 kcs. at Amarillo, Texas. . . . These stations started to operate about the middle of last November, just after the destruction caused by ice and sleet in the Texas Panhandle region, and continued for nearly a month. These stations carried on long distance toll service for the telephone company. They operated day and night. Their signals were R5-6 in the daytime and R7-8 in the evening. (Blinn-Kansas)

WOX and WAQ New York on 2522 kcs., WOU Boston on 2506 kcs., WGB Norfolk, Va. on 2538 kcs., WDR Miami, Fla., on 2514 kcs., and WAK in New Orleans on 2558 kcs. were all heard here. (Medric-N. Y.)

CY4A on 4755 kcs. at Bousquet, P. Q. can be heard every night at 7:20 p.m.

CB-18 at Lynn, Mass.—The Naval Reserve Station conducts code lessons Mon. to Fri. 6:45 p.m. to 7:15 p.m. on approximately 2360 kcs.

575 airports and airplanes have been heard at this location. (Welch-Mass.) (Radexer Welch sent in an elegant nine page report, which unfortunately is much too lengthy to be included here. We have selected but a couple

which we thought most important—RL)

Please, "Not-So-Short-Wavers" do not report stations which are common and which make little difference to other readers. Include in your reports only stations which you think will contain material of value to other DXers—in this manner your department will always contain the "cream" of the reports.

"FM" FACTS

"FM", the radio of the future is going ahead by leaps and bounds. Slowly, but surely, the experimental licenses owned by FM stations are being converted into regular broadcast licenses. Slowly, but surely, the public is being convinced of the distinct advantages possessed by this type of broadcasting. Now the FCC has provided an entirely new identifying type of call letters for FM stations (See FM station list on another page).

Roger Dissell of West Hartford, Conn. wants an entire section or department in RADEX devoted to FM. This is far fetched at present, of course, as interest is not yet high enough to warrant this. But it will come—and soon, judging from the strides FM has made of late. IF you are buying a new receiver, remember that having the frequency modulation feature in your receiver will cost but a little more than the regular cost of the set.

W1XOJ was regularly heard this Summer while at Yarmouth, Me. Signals were fair. At the same spot the signals of W1XTG were faintly audible. (Dissell-Conn.)

W1XPW here in Hartford, have shifted from 43400 kcs. to 44100 kcs., and are broadcasting daily from 2-10 p.m. Programs are mostly recordings. (Dissel-Conn.)

W1XSO is on the air from 3:30-11:30 p.m. with relays of WTIC programs. (Dissel-Conn.)

W1XEH (also owned by WTIC) are heard occasionally testing just below W1XOJ, W1XOJ and W2XMN are occasionally heard here meakly.

(Dissel-Conn.)

W1XOJ is marvelous on my new FM Zenith Radio here in Manchester, 60 miles away. Their signals are strong and clear and music on an "FM" set is something to really enjoy as instruments can be heard as they actually sound to the natural ear: W1XTG is heard with a weak signal here and have logged W2XMN and one of the New York City stations, but of course these are not heard to be enjoyed. (Meader-N. H.)

W9XCR in Chicago was heard here once relaying CBS programs. A station using AM on the same band was identified as W9XAW in Minneapolis, Minn. These stations were heard at 12:00 noon. Evidently this is what is known as "sporadic E" condition. (Dissel-Mass.)

FM station W2XMN was heard on my radio broadcasting the Rice-S. M. U. football game on 43000 kcs., but they were QRM'd by an amateur on 42800 kcs. How come I can hear and partially understand "FM" transmissions on my AM radio? (George Wetherill-Penn.) "FM" signals are not entirely inaudible on regular AM radios, but their quality on such sets is very poor and hardly enjoyable.—R.L.

Winston-Salem Journal applied to the FCC for an FM station for this area to serve 69400 sq. mi., which would mean a power of approximately 50 kw. (Waldman-N. C.)

SHORTWAVES IN REVIEW

Argentina

LRX on 9660 kcs. is being heard nightly with popular music. This station is in Buenos Aires and has complete English announcements at 10:05 p.m. (Hankins-Pa., Renfro-Tenn.)

LSX on 10350 kcs. was heard at 1:45 p.m. talking to New York. (Renfro-Tenn.)

LSK-3 on 10250 kcs. was heard in two-way contact with London at 5:15 p.m. (Kane-Pa.)

Australia

Revised A.B.C. schedule: Trans. 1:

3:25-4 a.m. to New Caledonia and Fr. Oceana.

Trans. II: 6:40-7:15 a.m. to North and East Asia.

Trans. III: 7:25-8:0 a.m. to East North America.

Trans. IV: 8:10-8:45 a.m. to South and East Asia.

Trans. V: 10:25-11 a.m. to Western North America.

Trans. VI: 11:55 a.m. to 12:30 p.m. to South Africa.

Trans. VII: 12:55-1:55 p.m. to Southern Europe.

Trans. VIII: 2:30 p.m. to 4 p.m. to Northern Europe.

Trans. IX: 6:10-7:00 p.m. to Eastern North America.

Trans. X: 12:55 a.m. to 1:45 to Western North America.

Trans. I has VLQ on 9615 kcs.; Trans. II has VLQ on 9615 kcs.; Trans. III has VLQ-5 on 9680 kcs.; Trans. IV has VLW-2 on 9650 kcs. and VLQ-7 on 11880 kcs.; Trans. V has VLQ-5 on 9680 kcs.; Trans. VI has VLW-5 on 6180 kcs., and VLQ on 9615 kcs.; Trans. VII had VLQ-2 on 11870 kcs.; Trans. VIII has VLQ-7 on 11880 kcs.; Trans. IX has VLQ-5 on 9680 kcs., and Trans. X has VLQ-8 on 17800 kcs. (Kane-Penna.)

VLQ on 9615 kcs. was logged from 2-2:30 p.m. with strong signals. (Simonian-Mass.)

VLQ-5 at Sydney on 9680 kcs. was heard from 7:30-8 a.m. with a broadcast on Australia. (Stracener-La., Waldman-N. C.)

VLQ-8 on 17800 kcs. was heard at 12:30 a.m. with news in English until sign-off at 1:45 a.m. (Renfro-Tenn.)

VLW-2 on 9560 kcs. at Perth and VLQ-2 on 11870 kcs. broadcast in parallel in the morning with ABC programs. News in English at 8:50 a.m. with English program following until 9:20 a.m., when they change to another language. Preceding the news in English there is a French program until 8:49 a.m. VLQ-2 cannot be heard—just WLW-2! Identification is by a series of chimes, sometimes plus a few notes, sometimes playing an actual tune. (Kane-Penna., also Lau-

dansky-Mass., Stracener-La., and Hankins-Pa.)

Bahama Islands

ZNS on 6090 kcs. is on the air daily from 8-8:30 a.m., 1-2 p.m., and 5:45-9 p.m., the addition of a morning transmission may make it easier to log in the mid-west. Address may be either P. O. Box 48 or Mr. K. P. Brown, Director of Telecommunications, East St., Nassau. (Kane-Penna., Scott-McConnell-Ohio.)

Belgian Congo

OPM (call not used) on 10140 kcs. announces as "Radio Congo Belg" and comes on the air at 1:41 p.m. with a series of high pitched notes. At 1:51 p.m. a series of musical notes in weird sequence until 1:56 p.m. when orchestra begins to play. At 2:00 p.m. a man speaks in French identifying the station. There is little QRM and station is heard until sign-off at 2:45 p.m. at which time the Belgian National Anthem is heard. (Laudansky-Mass., Kane-Pa., Hankins-Penna., and Bocherdt-Minn.)

Brazil

PSA on 21080 kcs. is not being used. PSE on 14935 kcs. broadcasts in German on Wednesdays from 4-4:30 p.m., in Italian on Thursdays from 3-3:30 p.m., and in French on Saturday from 3-3:30 p.m.

PSH on 10220 kcs. broadcasts in English on Mondays from 8-8:30 p.m., on Tuesdays from 8-8:30 p.m. and in Spanish on Friday from 7-7:30 p.m. (Johnson-Me.)

Canada

CJCX on 6010 kcs. is on daily from 8 a.m. to midnight with English news at 10 p.m. Verifies promptly. (Arnold-Ohio.)

CJRX on 11720 kcs. at Winnipeg, relays CJRC daily and announce as "Manitoba's Friendly Station". They are best heard from 7-10 p.m. (McConnell-Ohio, Horlick-Ohio, Laudansky-Mass., Bill Scott-Tenn.)

VE9DN on 6005 kcs. at Montreal is being heard and is the best Canadian at this location at night. (Horlick-Ohio.)

Chile

CB-1180 kcs. on 11945 at Santiago, Chile is on evenings from 7 p.m. to 11 p.m. They are best from 9-10 p.m. News in Spanish at 10 p.m. (Worme-P. Q., Peach-Mo., Laudansky-Mass.)

Colombia

HJGB on 4775 kcs. sends a white card printed in blue. On the back the signer penned "Merry Christmas and Happy New eYar". (Stephenson-Okla.)

Costa Rica

TI-4NRH still going strong on 9692 kcs. on Tuesdays, Thursdays and Saturdays from 9-10 p.m. Location is Heredia and U. S. stamps or coin is preferred for verification as I.R.C.'s are not valid in Costa Rica. (Arnold-Ohio, Stracener-La.)

TIJK on 6010 kcs. at Puntarenas is a new station being heard evenings. (Laudansky-Mass.)

TIPG on the air daily at 6:00 a.m. until 11:30 p.m. (Laudansky-Mass.)

TIRCC on 6185 kcs. was heard on Jan. 1 with a program of popular music from 5:10-5:36 a.m. with Spanish announcements. They identified themselves in English. (Stracener-La.)

Cuba

CLX on 7100 kcs. at Havana "Observatorio Nacional" was heard at 7:25 p.m. testing for the United States. Weather report given at midnight. (Laudansky-Mass.)

COBZ on 9030 kcs. can be addressed at Box 866. (Arnold-Ohio.)

COCY on 11460 kcs. is a new short wave relay for CMCY and is heard daily with a good signal. (Mills-Ont., Hankins-Penna. Disagreeing with the above. Johnson-Me., says the call on 11460 kcs is COCF!

COCO on 8700 kcs. in parallel with CMCK (broadcast band) comes on at 8 a.m. and signs off at 11:30 p.m. Address is P. O. Box 98, Havana. (Hankins-Penna.)

Dominican Republic

HJ-1J is now being heard on 5975 kcs. instead of 5960 kcs. They are only slightly QRM'd on the new frequency. (Laudansky-Mass.)

HI-1N on 6245 kcs. relays a program from Palestine Thursday and Sunday evenings from 6:45-8:30 p.m. (Hall-Mass.)

HI-8J at La Vaga has moved to 6383 kcs., and HI-1A to 6430 kcs. (Welsh-Mass.)

Ecuador

HC2AK on 9380 kcs. at Cuyaquil was heard with god signals on this frequency—just a little higher than COBC. (Laudansky-Mass.)

HC2XA on 9377.5 kcs. as checked by CBS in New York previous to a hook-up for relaying the "World Today" broadcast. (Kane-Penna.)

HCJB on 12450 kcs. "The Voice of The Andes" at Guyaquil was still the most often reported station in this country this month. Their signal is splendid and their English programs at 6 and 9 p.m. daily are usually interesting. Verification from HCJB contains a small picture of the antenna and studios with three stripes of red, blue, and yellow running diagonally across the card. A booklet on Ecuador usually accompanies the card. (Murphy-Wisc., Janata-N. Y., Woodbury-Mass., Renfro-Tenn., Stracener-La., Horlick-Ohio, Hall-Mass., and Johnson-Me.)

Egypt

SUX on 7865 kcs. at Cairo broadcast to London, who in turn relayed the program to CBS in New York. Cairo was heard as well here as the Rugby station in England. (Kane-Penna.)

France

TPC-5 or "Station Y" as the Germans call it now on from Paris at various times throughout the day. Schedule seems to be made up of short transmissions. They announce as "Vive la France". (Kane-Pa.)

TPC-13 on 9520 kcs. was heard with Oriental music from 3:45-4:04 p.m. announcing "Allo, allo, Ici Paris Mondial". (Kane-Penna.)

French Equatorial Africa

"Radio Brazzeville" on 11970 kcs. is still being heard from 3:30 until 4:15 or 4:30 p.m. Of late this station

has been using various frequencies in order to avoid jamming by "U-Know-Who". They were heard on 10970 kcs., free of jamming. (Laudansky-Mass., Johnson-Me., Kane-Pa., Borchardt-Wis.)

French West Africa

"Radio Dakar" is practically impossible to verify. Reason: there is no mail service to Dakar. (Laudansky-Mass.)

Germany

DJB on 15200 kcs. is on daily from 6-9 a.m.

DJC on 6020 kcs. si on from 8 p.m. to 1 a.m.

DJD on 11770 kcs. is on from 4:50 p.m. to 11 p.m.

DZD on 10540 kcs. is on from 5:45-6:35 p.m. and from 7-11 p.m.

"Station Y" on 9520 kcs. is on from 4:50-11 p.m. (Official North American Schedule.)

A complete list of stations in Germany or in German occupied territory follows. This list is the work of W. E. Welch of Lynn, Mass.

6010—OLR2A	11840—DXW
6010—DXO	11855—DJP
6020—DXP	11875—OLR4C
6030—DXP	11900—OLR4D
6030—OLR2B	15110—DJL
6072—DJY	15120—SP-19
6079—DJM	15120—DX42
6115—DXD-2	15160—DX5
6115—Warsaw	15160—OLR5C
6115—OLR2C	15200—DJB
6160—DXA	15230—DXT
6170—DXO	15230—OLR5A
6175—DXH	15275—Crakow
6190—DXG	15280—DJJQ
6195—DXI	15320—OLR58
7240—DXJ	15320—DXU
7270—DXM	15340—DJR
7290—DJI	17760—DJE
9504—OLR3B	17780—Dwov
9525—I.odz	17815—DJG
9525—SP-31	17825—DXC
9525—DXY	17830—OLR6A
9540—DJN	17830—DXV
9550—OLR3A	17845—DJH
9560—DJA	21450—DJS
9570—SR-1	21565—DJJ
9570—DXZ	21565—OLR7B
9610—DXB	21640—DJK

9650—DJW	21640—OLR7C
9670—OLR3B	21660—DXD
9675—DJX	21670—DXK
11740—Kattowitz	21690—DXF
11740—SP-25	21720—DXE
11745—DJF	21730—DXL
11760—OLR48	21740—DXN
11760—DXR	25850—DJT
11770—DJD	25950—DJU
11795—DJO	26450—DJV
11801—DJZ	
11840—OLR4A	

Of the above listed stations, the following were reported heard during the day at various odd times: DJB, DPD, DJL, DJC, DJQ, DXH-2, DXB, DXM, DJZ, DJA, DJW. (Kane-Pa., Horlick-Ohio, Hankins-Pa., Renfro-Tenn.)

DXC-2 on 11740 kcs. (formerly Oslo) was hooked up in synchronization with DJL from 8-8:15 a.m. for a relay to CBS in New York. (Kane-Pa.)

Great Britain

GRZ on 21640 kcs. was heard late on a Sunday morning with a church service. (Laudansky-Mass.)

GSA on 6050 kcs. was heard at 10:45 p.m. with "Radio Newsreel No. 171. They were also reported at 4:00 a.m. (Renfro-Tenn., Laudansky-Mass.)

GSU on 7260 kcs. was also heard during the Radio Newsreel program from 10:30-10:45 p.m. (Renfro-Tenn.)

GSW on 7260 kcs. was heard with a program of Canadian News and music on Mondays and Wednesdays from 3:45-4:15 p.m. and again from 7:30-7:45 p.m. (Worme-P. Q., Renfro-Tenn.)

Other BBC stations heard and reported were GSL on 6110 kcs., GSC on 9580 kcs., GSN on 11820 kcs., GSD on 11750 kcs., GSE on 11860 kcs., GSJ on 21530 kcs., and GSV on 17810 kcs. (Horlick-Ohio, Hankins-Pa., Stracener-La., Horlick-Ohio, Renfro-

Guatemala

TGWA on 15170 kcs. operates with 10 kw. daytime only.

TGWA on 9685 kcs. operates with the same power at night with optional use of both 11760 kcs. and 17800 kcs.

TGWB on 6480 kcs. operates with 1 kw. all day and in the evening.

TGWC on 2320 kcs. operates with 1 kw. daytime and evenings. (RX.)

TGW, TGWB, and TGWC have "The German Hour" on Mondays from 9:30-10 p.m.; "The English Hour" on Thursday at 9:30-10 p.m.; and "The Italian Hour" on Fridays from 9:30-10 p.m. (McConnell-Ohio.)

Haiti

HH2S verified by letter stating that they had no cards. (Stephenson-Okla.)

HH3W on 9900 kcs. has an English program on Monday afternoon from 1:45-2:05 p.m. which starts and stops with "Stars and Stripes Forever".... HH3W also broadcasts in English from 7:45-8 p.m. (Hankins-Pa., Stracener-La., Johnson-Mc., Hall-Mass.)

Honduras

HRD on 6235 kcs. signed off at 10:20 p.m. with the English announcement and a marimba theme song. (Kane-Pa.)

HRN on 5875 kcs. "The Voice of Honduras" presents the "Hour of Honduras" every Tuesday from 9:30-10:30 p.m. This program is in English. (McConnell-Ohio.)

Hungary

HAT-4 on 9125 kcs. in Budapest is heard nightly on its program to the U. S. and announce as "Radio Budapest, Hungary". News in English is at 8:03 p.m. (Kane-Penna., Stracener-La.)

India

VUD-2 on 9590 kcs. is being widely reported with news in English at 7:30 a.m. followed by news in the native tongue at 7:35 a.m. (Stracener-La., Kane-Penna., Morse-Mass.)

Italy

IRF on 9830 kcs. heard during the American hour with R9 signals. (Hankins-Pa., J. Ribinski-N. Y.)

I2RO-3 on 9630 kcs. was heard at 10:20 p.m. with the American Hour directed to this country. (Renfro-

Tenn.)

12RO-4 on 11810 kcs. heard from 12:30 p.m. broadcasting music, and using a woman announcer. (Horlick-Ohio, Kane-Penna.)

12RO-6's program at 12:15 p.m. is directed to North America. (Horlick-Ohio.)

12RO-15 on 11760 kcs. heard at 12:15 p.m. with a man announcing the frequency. This is the earliest any Rome station has been heard here. (Renfro-Tenn.)

Jamaica

ZQI on 3470 kcs. testing at 6:40 p.m. (Welch-Mass.) ZQI at Kingston on 4750 kcs. verifies with a tan card with green print. Power is 200 watts. Dennis M. Gick, Manager, signed the card. (Stephenson-Okla.)

Japan

JLG-4 on 15105 kcs. operates from 8-10 p. m.

JLT on 6190 kcs. operates from 2-5:30 p.m.

JVW on 7257.5 kcs. operates from 2-5:30 p.m.

JVZ on 11815 kcs.(new station) operates from 4-8 a.m., 6-8 a.m., and 8-10 p.m.

JWV on 11725 kcs. operates from 8-9:30 a.m.

JZI on 9535 kcs. operates from 1:30-5:30 a.m., 10-11:55 a.m., noon to 1:30 p.m., 6-7:30 p.m., 10:30 p.m. to 1 a.m.

JZJ on 11800 kcs. operates from 1:30 a.m. to 3:30 a.m., 4-5 a.m., 5:30-6:25 a.m., 6:30-9:30 a.m., 10-11:55 a.m., noon to 1:30 p.m., 6-7:30 p.m. and 10:30 p.m. to 1 a.m. (Whole schedule RX via Stevens-Ky.)

All but JLT and JVW have been reported heard in Eastern North America by (Bennett-N. J., Arnold-Ohio, Laudansky-Mass., Werme-P. Q., Horlick-Ohio, Mills-Ont., Walker-Ky., Hanks-Pa., Johnson-Me., and Benkley-Tex.)

JLG on 7285 kcs. and JLG-2 on 9505 kcs. are used occasionally on the 2-4 p.m. program for Europe. (Kane-Pa.)

JLU-3 on 15160 kcs. heard with R8

signal from 7:20-9:30 a.m. (Stracener-La.)

Madagascar

FIQA on 10950 kcs. at Tanananrive is heard Saturdays with news in English from 2:35-3 p.m. A woman does the English announcing. (Horlick-Ohio.)

Manchoukuo

MTCY on 9545 kcs. operates from 1:30-2:20 a.m. to Europe, and from 9:30-10:30 a.m. to Dutch East Indies, and Australia.

MTCY on 11775 kcs. operates from 1:30-2:20 a.m. to Pacific Coast of U.S. and Hawaii and from 9:30-10:30 a.m. to Dutch East Indies and Australasia. (RX.)

Martinique

"Radio Martinique" on 9705 kcs. is on nightly from 5:30-9 p.m. with French songs and music. Both man off includes "La Marseilles". (Werme- and lady announcers take part. Sign P. Q., Kane-Pa., Horlick-Ohio.)

Mexico

XEQQ on 9680 kcs. in Mexico City is heard daily with popular Mexican music and songs. (Werme-P. Q.)

Mozambique

CR-7AA on 6137 kcs. comes in R8 from 12:30-1 a.m. (Horlick-Ohio.)

CR-7BE on 9710 kcs. is being heard very regularly with a god signal from 2-4 p.m. with program in Portuguese. American dance tunes are often used for music on the program. (Scott-Tenn., Johnson-Me., Stevens-Ky., Borchardt-Wis., Kane-Pa.)

CR-7BE verified with a white card, green map of Africa, radio towers, and radio waves, and blue call letters. Stations now in use are: CR7BD on 15250 kcs., CR7BE on 9710 kcs., CR7AA on 6030 kcs., and CR6AB on 3490 kcs. Not in use at present are CR7BF, CR7BG, CR7BH, and CR7BI. (Laudansky-Mass.)

Netherlands

PCJ-2 on 15220 kcs. heard with program in the morning for the Dutch East Indies. PHI is also heard on announcements, but this station is not heard here. News in English at

6:50, 7:50, 9:38, and 10:30 a.m. (Kane-Pa.) "Radio Amsterdam" heard as identifying announcement on 15220 kcs., at 10:30 a.m. (Hankins-Pa.)

Nicaragua

YNDG on 7660 kcs. broadcasts week-days from 8:30-9:30 p.m. Station identification is given in English. Verification card is in white with red call letters and blue print. (Laudansky-Mass., Stracener-La., Borchardt-Wisc.)

Panama

HP5B on 6033 kcs. at a Panama City is heard in the early evening with good signals. (Laudansky-Mass.)

HP5G on 11780 kcs. is heard from 7-7:30 p.m. with news period conducted and announced by George Williams. (Arnold-Ohio.)

HP5K on 6000 kcs. heard with a program in English from 6:05-6:30 p.m. (Stracener-La.)

Paraguay

ZP-14 "Radio Cultura" verified with a grey card with blue print. (Laudansky-Mass.)

Peru

OAX4J on 9380 kcs. has a program by the Peru Automobile Club in English at 5:30 p.m. on Saturdays. (Stracener-La.)

Portugal

CSW-5 on 11040 kcs. causes interference to OPM around 3 p.m. (Kane-Penna.)

CSW-6 on 10990 kcs. heard from 2:30 p.m. on Sundays with a musical program. Announcements in Portuguese. (Laudansky-Mass.)

CSW-7 on 9740 kcs. is the most often heard Portuguese station, being reported with news in English at 4:00 and 4:15 p.m., and at 9 p.m. (Kane-Pa., Hankins, Pa.)

Salvador

YSPB on 6575 kcs. signs off at 11:58 p.m. announcing in Spanish as YSP and YSPB. Two descending gongs form identification signal before each short announcement. Before station announcement a series of 8-10 strokes of the gong are sounded. (Hankins-Pa.)

YSD verified with a lemon and blue card showing a radio tower with call across it. (Stephenson-Okla., Stracener-La.)

Spain

EAQ on 11680 kcs. is being heard in the afternoon until 3 p.m. with program which concludes with news in Spanish. (Kane-Pa.)

EAQ on 9855 kcs. is very erratic, being heard R9 one evening and scarcely audible the next. (Kane-Pa., Hall-Mass.)

Switzerland

It is no longer permissible to send pictures of the Geneva (Schwarzenburg) radio as verifications, so the chief of programs sent me instead, two pictures of Bern and the Alps as veries. Verification also mentions stations on 6165 kcs. and on 11965 kcs., previously unreported in the states. The former station operates only on week-days from 2-5:30 p.m., and the latter daily from 7-8:45 a.m. (Kane-Pa.)

Uruguay

CXA-6 on 9625 kcs. is all Spanish speaking. Announcements are made 8:28 p.m. and 8:59 p.m. Announce as "Servicio Oficial de Difusion Radio Electrica, CX-6 and CXA-6". (Hankins-Pa., Laudansky-Mass., Werme-P. Q.)

CXA-8 on 9640 kcs. is heard nightly with popular Latin American music. They are sometimes over-shadowed by Rome. (Werme-P. Q.)

CXA-19 on 11705 kcs. in Montevideo is known as "Radio Espectador". They verified with a nice letter stating that they also operate CX-14 and CX-18 on the broadcast band. Address: Calle Olimar 1364, Esquina 18 de Julio, Montevideo. (Laudansky-Mass.)

U. S. A.

KTRC hear dhere at midnight contacting W GEO. KTRC is on 9135 kcs. and is located at East Base, Little America. (Scott-Tenn.)

WBOS now becomes the call of the former WPIT since it has moved to Hull. (RX.)

WLWO verifies with a large folder and pictures of foreign announcers, transmitters, and studios. (Woodbury-Mass.)

W2XGB on 12862.5 kcs. of the Press Wireless was heard testing between 11:45 a.m. and 1 p.m. (McConnell, Ohio, Renfro-Tenn.)

W9XEI on 6425 kcs. at Lake Bluff, Ill., was heard contacting ships. (Laudansky-Mass.)

Venezuela

YV3RC on 3420 kcs. in Merida signs off at 9:35 p.m. (Benkley-Tex.)

YV5RN on 4920 kcs. operates until 11 p. m. or later from Caracas. News is broadcast at 9:30 p.m. (Benkley-Tex.)

YV5RW on 3400 kcs. in Caracas is heard operating after 10 p.m. and announcing as YV5RL and YV5RW. (Benkley-Tex.)

YV5RY on 3380 kcs. heard after 10 p.m. (Beukley-Tex.)

Yugoslavia

YUA on 6100 kcs. is now being used in place of YUG on the afternoon broadcast of English news at 4:25 p.m. (Kane-Pa.)

Reporters submitting to this department or to Radexing With the Radexers will please have their letters for the May-June Radex in our hands by March 25th.

RADEX REPORTERS

RL: Your Eastern Editor Ray La Rocque, Worcester, Mass.

RX: Official News.

R7, Pa. 1: A. M. Hankins, Latrobe, Pa.

R101: Weston Richards, Zion, Ill.

R103: Robert Bailey, Scituate Mass.

R372: Page Brent, Kansas City, Mo.

R431: Samuel Meyer, Jr., Rochester, N. Y.

R451: Chet Roman, Chicago, Ill.

R557: Roger F. Scott, Whitinsville, Mass.

R626: Bill Scott, Johnson City, Tenn.

R636: Norman L. Maguire, Stamford, Conn.

R695: Frank B. Lee, Wildwood, N. J.

R757: Mathew Leshner, Lawrence, Mass.

R786: Bob Skyten, Brookfield, Mass.

R798: John K. Higbee, Powhatan Point, O.

R841: Elwin L. Gleason, Moosic, Pa.

R881: Clarence Lee Mustoe, Brady, Mont.

R1079: Stanwood R. Morss, Bradford, Mass.

R1178: Joseph Jones, Terra Alta, W. Va.

R1201: Jim Palmer, Winnetka, Ill.

R1208: Peter C. Landry, Montreal, P. Q.

R1273: John D. Long, Dalton, Ga. (Ga. 5)

R1312: Lester Balcom, Malden, Mass.

R1319: Alton Caldwell, Brockton, Mass.

R1320: Frank Gravely, Martinsville, Ky.

R1342: Leon Grossman, Rochester, N. Y.

R1369: Julius Krupp, Chicago, Ill.

R1421: Frank Susoreny, E. Chitagi, Ind.

R1470: Jack Stephenson, Oklahoma City, Okla.

R1543: Fraser Hendrick, Port Credit, Ont.

R1557: Charles O. Peach, St. Louis, Mo.

R1566: Roy Woollacott, Rochester, N. Y.

R1643: Glenn Thormann, Westbury, N. Y.

R1667: Charles A. Mills, Strathroy, Ont.

R1691: Hal Robie, Springfield, Mass.

R1740: Connie Sideris, Oswego, N. Y.

R1757: William McMahon, Glen Cove, N. Y.

R1764: Vernon Lee Gibbs, Lexington, Ky.

R1769: Allen Cadorath, Brandon, Man.

R1773: Fred Benkeley, Jr., China Spring, Tex.

R1784: Charles Adams, Philadelphia, Penna.

R1794: Phil Gridley, Holyoke, Mass.

R1805: George Wetherill, Jr., Upper Darby, Penna.

R1806: Nat Boonin, Upper Darby, Penna.

R1807: Robert McConnell, Middletown, Ohio.

R1826: Israel Zeid, Brooklyn, N. Y.

R1834: Dawson Y. Davis, Indianapolis, Ind.

R1842: Ray Reidel, Indianapolis, Ind.

R1843: L. N. Stracener, Baton Rouge, La.

R1847: John Hall, Springfield, Mass.

R1852: Arthur Stevens, Shepherdsville, Ky.

R1856: Fred Borcherdt, Milwaukee, Wisc.

R1872: Don Murphy, Milwaukee, Wisc.

R1904: Billy Cuny, Louisville, Ky.

R1911: Norman H. Kane, Jr., Drexel Hill, Penna.

R1912: Terrence Boyd, Toronto, Ont.

R1932: Leon Prague, Hartford, Conn.

R1978: Bernard F. Arnold, Akron, Ohio.

R1979: Charles Squires, New York, N. Y.

R2001: Epgene Francis, Bronx, New York.

R2001: Eugene Francis, Bronx, New York.

Lester Balcom, Malden, Mass.

Fred Bamberger, Shaker Heights, Ohio.

G. L. Banta, Downers Grove, Ill.

Harold Blinn, Arkansas City, Kans.

Clarence Burgham, Boston, Mass.

Bob and Bill Camp, Moosic, Penna.

Jose Carriazo, Havana, Cuba.

H. H. Chambers, Narragansett, R. I.

Walter Chopek, Matapan, Mass.

Peter A. Clarius, Port Richmond, N. Y.

A. N. Cole, Jr., Norfolk, Va.

Richard Crane, Waukeegan, Ill.

Dick Daneker, Lansdale, Pa.

Jim Davis, Toronto, Ont.

Roger Dissell, West Hartford, Conn.

James L. Fitzgerald, Richmond, Va.

Carl Firesieri, Bronx, N. Y.
 Bill Gabriel, Lakewood, Ohio.
 Bob Gilchrist, New York, N. Y.
 John Hall, Springfield, Mass.
 W. H. Herman, Cleveland, Ohio.
 Malcolm Horlick, Youngstown, Ohio.
 Bob Hetzel, Milwaukee, Wisc.
 K. M. Imboden, Chicago, Ill.
 Joseph Janata, Long Island, N. Y.
 Hal Jewell, Arlington, Mass.
 Avery L. Kempton, Harding, Mass.
 Robert Kappelon, Newark, N. J.
 Arthur J. Kimble, St. Louis, Mo.
 Dick Knoth, West View, Pa.
 W. Knouff, Columbus, Ohio.
 Frederick Krueger, Newfield, N. Y.
 Harst Krumrei Milwaukee Wisc.
 Frederick Kummer Cleveland, Ohio.
 Edward Laudansky, Dorchester, Mass.
 Mrs. J. Matthews, Lenox, Mass.
 Allan Maxwell, Jr., Bloomington, Ill.
 Mae McKenzie, Indianapolis, Ind.
 Al Meader, Manchester, N. Y.
 Ed Medric, Brooklyn, N. Y.
 Chas. Meyers, Chicago, Ill.
 Lorne Mitchell, Strathroy, Ont.
 Nils J. Nordstrom, Duluth, Minn.
 Edward Omelian, Watersmeet, Mich.
 Clarence Overheiser, Hastings, Nebr.
 Phil Potter, Washington, E. I.
 Lloyd Rees, Ridgewood, N. J.
 Al Renfro, Johnson City, Tenn.
 Don Renalds, Newburgh, N. Y.
 J. Rihinski, Yonkers, N. Y.
 Charles Ruby, Longmeadow, Mass.
 Walter Scholtz, Webster Groves, Mo.
 A. G. Schleiter, Rochester, Pa.
 Fred Simonian, Lynn, Mass.
 Joseph Slicius, So. Boston, Mass.
 Vincent Stasen, Philadelphia, Pa.
 Art Stevens, Louisville, Ky.
 F. A. Strubel, Hackensack, N. J.
 Snowden Taylor, New York, N. Y.
 David F. Thomas, Proctorville, Ohio.
 Charles C. Vandervoort, Laceyville, Pa.
 LeRoy Waite, Ballston Spa, N. Y.
 William Waldman, Asheville, N. C.
 Frank Walker, Greenville, Ky.
 Pat Web, San Antonio, Texas.
 Bill Wells, Hamilton, Ont.
 Walter E. Welch, Lynn, Mass.
 M. F. Williams, Noroton Heights, Conn.
 Oscar Williams, Clarion, Pa.
 Thomas Woodbury, Hingham, Mass.

SPECIAL NEWS

Following is a list of test programs (other than the regular 2nd week monitoring tests of the FCC) conducted regularly by United States stations:

1st Wednesday

WSAV 2:25-2:40 a.m.
 WHUB 2:30-2:45 a.m.
 WKAT 2:40-2:55 a.m.
 WKPT 2:45-3:00 a.m.
 WPAB 2:50-3:05 a.m.
 WCOS 3:00-3:15 a.m.
 WPRA 3:05-3:20 a.m.
 KVIC 3:10-3:25 a.m.
 WGBR 3:15-3:30 a.m.
 WGAC 3:25-3:40 a.m.
 WSPB 3:25-3:40 a.m.
 WFTL 3:30-3:45 a.m.
 WSKB 3:30-4:00 a.m.
 WMGA 3:45-4:00 a.m.
 WFTM 3:50-4:05 a.m.
 WSAZ 4:15-4:35 a.m.

1st Friday

WGTC 2:30-3:00 a.m.
 WTSP 2:00-2:30 a.m.

1st Tuesday

KLAH 4:30-5:00 a.m.
 4th day of Month
 WDLP 2:00-2:30 a.m.

4th Monday

WINN 3:00-3:15 a.m.
 (WEDC is off)

Last Saturday

WATW 2:15-2:45 a.m.

1st Thursday

WORD 2:30-2:45 a.m.
 WTMC 2:35-2:50 a.m.
 WFIG 2:40-2:55 a.m.
 WIHO 2:45-3:00 a.m.
 WMJM 2:50-3:05 a.m.
 WTMA 2:55-3:10 a.m.
 WLBJ 3:00-3:30 a.m.
 WCBI 3:00-3:15 a.m.
 WAPO 3:05-3:20 a.m.
 WMOG 3:10-3:25 a.m.
 WGOV 3:25-3:40 a.m.
 KTRI 2:20-2:30 a.m.
 WFOR 2:00-2:30 a.m.

1st Saturday

KWAT 3:00-3:15 a.m.
 WTSP 2:00-2:30 a.m.
 WFPG 2:30-3:30 a.m.

YOU BENEFIT FIVE WAYS
SEE PAGE 96

The VAC Awards

1st Monday
WAOV 2:00-2:30 a.m.
KFGQ 2:30-3:00 a.m.

1st Sunday
WESX 4:00-4:15 a.m.
7th day of Month
KVGB 3:00-3:30 a.m.
KTEM 3:30-4:00 a.m.

4th Thursday
WMAN 2:00-2:30 a.m.
WFMJ 2:00-2:15 a.m.

DAILY

WOLF 1:00-2:00 a.m.
KROC 1:00-2:00 a.m.
WBAX 1:00-3:00 a.m.
WDSM 1:00-2:00 a.m.
KPHO 1:00-3:00 a.m.
KENO 1:00-3:00 a.m.
WPIC 4:00- ?? a.m.
WCAR 4:00- ?? a.m.
CMCH ?? -2:00 a.m.
CMCX ?? -2:00 a.m.
WHIS 5:00- ?? a.m.
WMMN 3:30- ?? a.m.
WSLS 6:00- ?? a.m.
WSOO 6:00- ?? a.m.

The foregoing list is the work of Robert Kappelon of Newark, N. J., to whom we are indebted for these useful tips!

Old Issues Available

Nearly all issues of Radex from 1931 until 1939, 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.

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.

The VAC awards of The Radex Club are "different." A series of six plaques each different, suitable to hang on the wall of the radio den, is awarded to listeners who verify all continents. But (and herein they are different from other awards), the plaques may be obtained one at a time. If you have verified only one continent, you may get a plaque for that continent. Any DXer who hears a radio station can qualify for at least one of these awards, and they are available whether you tune the broadcast band, the shortwave bands or the amateur bands. And the nominal charge of ten cents each just covers the cost of mailing them to members and returning the verifications which are submitted as required.

To get these VAC plaques, one verification from each continent is required, except that three veries from the continent on which you live are required for your own continent's plaque. Thus, members living in North America can send one verification for Europe, Asia, Africa, South America. The three veries from your own continent must be from three different countries.

The Continents

NORTH AMERICA: Includes the countries of Canada, Newfoundland, Greenland, The United States, the territory of Alaska and all the Aleutian Islands, the countries of Central America, Bermuda, all the countries of the West Indies, i.e., the Bahamas, the Greater Antilles, the Lesser Antilles, the French West Indies, the British West Indies, but not the Netherland Antilles. In the Pacific Ocean, the Cocos and Clipperton Islands are included in the continent. Through the Bering Sea to the North Pole the continental boundary follows the International Date Line.

SOUTH AMERICA: Includes the entire mainland, and the Netherland Antilles to the north. In the Atlantic Ocean the several islands belonging

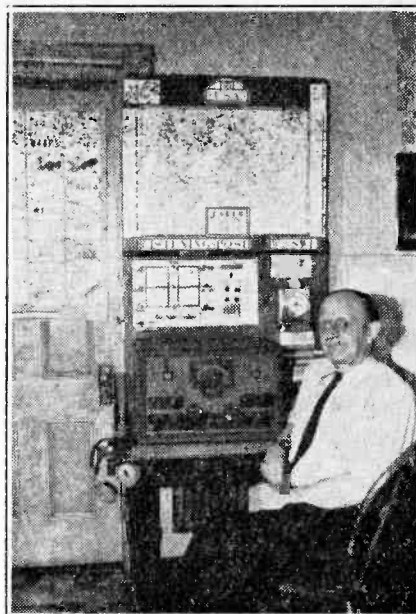
to Brazil are included, as are the Falkland Islands. In the Pacific Ocean, the Galapagos and the several islands belonging to Chile are included.

EUROPE: Includes, to the north, Novaya Zembla, Spitzbergen and Iceland. In the Atlantic Ocean, the Azores are included. In the Mediterranean Sea, the following islands are considered as European: Sardinia, Balearics, Corsica, Malta and Crete. The eastern boundary of Europe starts in Kara Bay, continues southward, through the Obdorsk Mountains, the Ural Mountains and the Ural River, to the Caspian Sea, then through the Caucasus Mountains to the Black Sea.

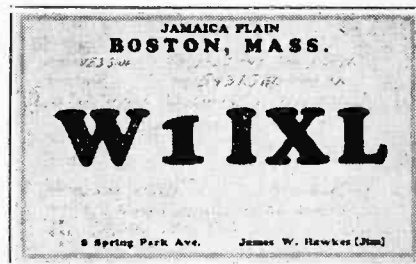
AFRICA: Includes none of the Mediterranean Islands. In the Atlantic Ocean, it includes the Madeiras, the Canaries, the Cape Verdes, Ascension and St. Helena. In the Indian Ocean, Madagascar, the Seychelles, Reunion, Mauritius, and Rodriguez. Africa's eastern boundary goes through the Suez Canal, the Red Sea and the Gulf of Aden.

ASIA: The western boundary of Asia is the same as the eastern boundaries of Europe and Africa. All the islands in the Arabian Sea are included in Asia, as well as those in the Bay of Bengal. Asia's eastern frontier includes all of Japan, the island of Taiwan and Hong Kong Island. From Taiwan the boundary passes through the South China Sea to Singapore, then through the Malacca Straits to the Bay of Bengal.

OCEANIA: Includes Australia and New Zealand, and the so-called Islands of the Pacific, extending as far north as the Hawaiian Islands, which are included. The Philippines and all the Netherland East Indies are considered as part of Oceania.



Edward V. Sachleben, of Newark, N. J., is a real DX fan operating three radios. One shown above is a nine-tube Zenith Best catch on the shortwave broadcast band is Manchukuo. He considers KF6JEG as his prize for the Ham bands and also Little America.



Bill Wells of Hamilton, Ont., has the unique distinction of being the only listener, as far as we know, who has ever verified this amateur on 5437.5 kcs.

Ham Hounding

By OWEN CALLIN

The night is dark and cold, the snow heavy on the ground with a moaning wind sweeping the white granules in swirls around the winter-stricken bushes and trees.

But inside it is bright and cheery, the fire in the fireplace lighting up every corner and sending bright reflections from the dials and chrome of my SX18 HALLICRAFTER there in its nook waiting to be turned on, chock full to the "h" in the speaker with DX.

I shed my coat, grab sandwich and coffee, check the clock that says 2 a.m. and turn the switch. Twirling the dials I shoot down to the 20-meter band — to find only a dead silence.

WHY DOESN'T THAT CURSED BAND OPEN UP?

Have you been experiencing the same thing, Radexers? The band has been unaccountably dead this winter and only in the mornings when the KA's and a few Asiatics wander in is the thrill there. Besides that, all that's left is the ten-meter band, which, thank goodness, is still at a customary winter peak.

* * * *

Admiral Byrd kindly answered our letter and said he was taking up the matter of QSL cards of the KC4 stations of Little America for SWLs with the executive committee of the expedition, of which he is a member.

He reported that the committee would have to discuss such a proposal and vote upon it. Here's hoping the answer is favorable. Are you saving your dope on KC4USA, USB and USC? If the committee agrees upon QSL cards you will need that dope for verification purposes.

* * * *

Two more hams are among the Silent Keys. Western Richards reports that a QSL request to K7HCX was answered by K7HAR. In his letter he said that 7HCX had died Sept. 30.

Fred Starr, VK4FS, was a member of the crew of an Australian bomber which disappeared off the Queensland coast last October.

* * * *

Mert Meade, the Kansas City Flash, is pulling up on Cliff Tavener, the Texas Terror, in our old-timers' contest, while George Eder jumped from fourth place up to third, passing Jack Wells.

Here are the scores to date:

Cliff Tavener	23,184 pts.
Mert Meade	22,724 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.....	1,035 pts.

Mike Unger is doing fine in Radex's big contest. His coupons rate him 228 points. Coupons have been received from Harry O'Meara, 21 points; Mert Meade, 18 points; Bill Scott, 6 points; Al Renfro, Jr., 3 points, and one each from Vincent Longo and Roland Burson.

Prizes in Radex's big contest, you know, consist of two fine radios—HALLICRAFTERS SKYRIDER DEFIANT RECEIVER, and PHILCO PORTABLE RECEIVER, besides good ol' cash money.

Send your reports for Ham Hounding direct to

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

To Al Pickering, especially—no, the contestants in our ham band contest haven't logged all those points since October. Just count up the veris you have on the ham bands and multiply that number by the number of countries represented for your score. Then through this year that the contest runs (until October, 1941) you can keep adding to your score by the veris you are receiving.

For the winner Walter Koester, manager of the Return Postage Bureau at Rutherford, N. J., has donated \$2 credit toward the purchase of foreign stamps, while both first and second winners will be honored with writeups and their pictures in Ham Hounding.

* * * * *
Three new members are hereby initiated into the Radex Club. Gang, meet White of Oakland, Cal., Dick Mertz of Akron, O., and Bob Miller of Detroit, Mich. Bob is R1939.

* * * * *

The American Radio Relay League is doing its bit for national defense. In response to the request of James L. Fly, chairman of the Defense Communications Board, the ARRL has appointed the following representative and six advisors to the Amateur Radio Committee of the Board:

Representative: George W. Bailey, ARRL president, of Weston, Mass.; regional advisors: H. L. Caveness of Raleigh, N. C.; William A. Green of Abilene, Tex.; Kenneth T. Hill of Douglaston, L. I.; N. Y.; J. L. McCargar of Oakland, Cal.; Fred H. Schnell of Chicago; and Dr. Burton T. Simpson of Buffalo, N. Y.

The purpose of the committee, which includes representatives of the FCC, Army, Navy and the NYA, is to study all phases of amateur radio facilities based on national defense requirements.

* * * * *

QRA and QSL Department

From L. Williams, 1823 Roscoe St., Chicago, comes a request for information in regard to one Bob White

of Herndon, Ky., located near Hopkinsville. White operated a station at Herndon year before last but whether he is there yet is not known. Williams would like to know his call and any other information concerning him.

J2IB must have a new QRA since Phil Bates' card addressed to the Callbook QRA of J2IB came back stamped "address unknown."

For George Eder from Phil Bates: Cards for K4GTH and K4GSG should be sent c/d F. M. McCown, Family Court, 7, Loiza Rd., Santurce, Porto Rico; K4DSE is Jose Medina-Hernandez, Box 494, Rio Piedras, P. R.; and K7HAR is F. E. White, 613 11th St., Fairbanks, Alaska.

Vernon L. Gibbs, Rte. 5, Lexington, Ky., would like to know the call letters of a station in Georgia running only 18 watts and heard R9 plus on 20 meter fone on Nov. 12 at 9:30 a.m., CST.

Joe Ribinski, 57 Oak St., Yonkers, N. Y., heard LS1TNY and RHC (or RHE) both in South America on the 20-meter fone band. "Help," he asks, "Who are they?"

Ed Laudansky wants the QRA of CO6BC.

The following have verified for Mike Unger: J5CW, KB6CBN, K6MXM, KA1CM, K4FAB, CP2AC, EA7BA, K6SRZ and K6PHD.

Foreign amateurs who QSLed for Phil Bates: CO2DR, 2RR, 2JM 2AM, 8JK, 2YW, 2BG, 2VK, 2VP, 2UT, 2LA, 8MP, K4EMG, 4FAB, 4FCG, 4FGC, HH4AS, PY2LN, 7AI, 5AQ, 2IT, XE1GE, 2HD, 3BK, K5AP, CE3AG, YV5ACG, CM2AR, K6NYD /KE6, K6PLZ, LU1CA, EK1AF, OA4R and HP1A.

Al Pickering says these supposedly "Non-QSLers" verified for him: CO8JK, PY2DA, HP1A and YN1IP. Harold Schubert has veries from: HI3N, HI5X, YV1AQ, HP1A, YV4AE and also YN1IP. He says that YS1MS and KF6JEG have not verified.

Bill Adams sends his list of those who have QSLed: OA4R, LUIDA, 8AB, 1CA, CO2DR, 2RR, 2JM, 2KP, 2LA, 2VK, 2UF, 2YW, 2BG, 2JH, YV5ACG, HH4AS, CE3AG, PY2IT, 7AI, 5AQ, 2LN, XE1GE, 2HD, 3AH, EK1AF and K5AM—all for NO return postage.

* * * *

CW Section

Mike Unger heartily agrees with a CW Section and points to his 21 stations who verified out of 27 requests since October. He thinks that since the DX is off, now is a good chance for SWLs to learn the code.

* * * *

Now for a quick look to what's on the air:

ALASKA — K7GNN, located in Chichagof, and K7GTP heard with weak signals on 20 meter fone in Philadelphia. K7CBS is on nightly around 14220. On 10 meters K7HMM is being logged despite his 10 watts.

ARGENTINA — LU4BH sends a white card with red and black letters. He uses a kilowatt and a half to a two-element beam.

CANAL ZONE—If you haven't yet logged K5AP, he's on 14150 kcs. nearly every evening between 6 and 7:30.

COLOMBIA—HK1AK is a new Colombian heard on 40-meter fone. He gave his QRA as Box 919, Baranquilla.

CUBA—CO2KP verified with the white, orange and black card of CO2MA is red, white and blue. CO8MP QSLed. promptly with no postage needed. CO8JK QSLs for return postage.

EL SALVADOR—From the second op of YS10L, Herbert Lindo, we have gratefully received the following dope on the YS stations: YS stations have been suspended but should be back on the air soon. When they are on, here is where you'll find them: YS10L, 20 and 40 meters, fone and cw; YS10I, 20, 40 and 80; YS1ED, 20, 40 and 80; YS1MS, all bands; YS1RM, 20, 40 and 80; YS1AM, 20,

40 and 80; YS1KM, 20, 40 and 80; YS1JG, 20 and 40; YS1FM, 20 and 40; YS2MC, 20 fone; YS2RW, 20, 40 and 80 CW; YS3DL, 20, 40 and 80 fone.

1MS, 1RMS, 1AM, and 1KM have rotary beams; 10L, 1MS, 1KM, 1JG, and 2MC have home-made transmitters. Most of the rest have Stancor transmitters.

Herbert says they have an amateur radio club in San Salvador called "CRAS," which stands for "Club de Radio Aficionados de Salvadorenos."

Herbert's brother, Oscar, is the other op at 10L. The QRH used is 14022 on the 20-meter band and 7011 on the 40-meter.

HAWAII—The K6's are rolling in, as usual. Harry O'Meara says that K6NYD is now W4HGM at Pensacola, Fla., and that he is Bob Henry's (W9ARA) brother.

INTERNATIONAL ZONE — EK1AF has been heard on the air but the reports have it that Jose Sierra is dead and it probably was someone else at the controls.

JAMAICA — VP5PZ now is a broadcast station—ZQI. Listen for the government station at Kingston on 4700 kcs. between 5:30 and 6:30 p.m. any weekday.

JAPAN—Be careful of the address of J2IB (see QRA section).

MEXICO—XE1MF said he would answer all reports if accompanied by return postage. XE1CH verified with the orange and white card of XE1BE.

MIDWAY ISLAND — W6NKL left for Midway before Christmas and since he has taken a good-sized rig with him he should be on the air shortly. KD6NKL will be heard on both fone and CW.

PHILIPPINES — A veri received from KAIHQ says that his call now is KA1AC. He uses the same transmitter as before with a three-element beam antenna instead of a rhombic.

PORTO RICO—Quite a few of the K4's are on ten meters for you beginners who haven't yet logged this country.

ST. THOMAS — KB4HBX is W6PSP, operating on this island of the Virgin group on 28725 kcs. (10-meter fone). His usual time on the air is Tuesday, Thursday, Saturday and Sunday between 9:30 a.m. and 3 p.m.

SWAN ISLAND—KD4GYM, Steve Paull, has left Swan Island but his successor is taking the exam soon so the island may still be on the air.

That's a pitiful amount of news, DXers, but considering the dead bands and the war, it can't be helped.

The W Section

The response has been very favorable following the first appearance of the W Section, and reports of U. S. hams have been rolling in. Therefore, we're more than pleased this time to report that only three of the nine hams asked failed to come through with some news about themselves.

W2LZD—Ed Scatterday, Sunnyside, L. I. Ed is a broadcast engineer for WOR—has been one for several years. It seems to run in the Scatterday family, since his dad, uncle and two cousins are in the same game.

Ed is an Ohioan and his dad and uncle taught him both Morse and International codes in Bridgeport, Ohio. Born in Stubenville in the same state, he worked with his dad in the electrical contracting business. Started in Pittsburgh with the A. T. & T. and worked on network switching. Got his start in control room with WCAE in 1933. He went with WFIL in 1937 and then to WOR soon afterwards.

An RCA 810 in the final gives Ed a nice rig capable of 450 to 500 watts. Although he intends to go on 10 meters, at present he's working 160-meter fone and 80 meter CW. On the air anytime after 3 a.m.

Ed's other hobby is photography. He took over 1800 feet of color film in Mexico last summer. He is also keeping a scrapbook of the war which he expects to be valuable some day.

W3FRH—U. D. Bryant, Box 34, Stonega, Va. Dropping down into Stonega a visitor would probably find Ulysses down in the bowels of the earth digging coal. Combining hobby with work, he is experimenting with a 2½ meter rig underground to be used in connection with mine rescue work and has made quite a bit of progress along that line.

In 1920 when Ulysses was 15 he became acquainted with 3AOV, an old-timer now among the Silent Keys. He used to stay up until the wee hours of the morning listening to the "buzz saw" signals and watching the rotary spark gap. The old-timer, S. J. Gundry, taught the young fellow all he knew and finally the young fellow built his own receiver.

From 1921 until 1935 Ulysses fooled around with the different types of tubes and transmitters popular in those days and finally received his license in 1935. Lakeland, Fla., was his first DX with his 7½-watt transmitter using 45's in Class C. He then moved to Corbin and put together a ten-watt rig which contacted him with VE3AIU.

Finally moving to Stonega, Ulysses now has a Stanco 60-P transmitter available on all bands, and with a T2- and T40 in the final. He has worked 39 states, including some snappy W7's on 160-meters, where he usually is found. And he will QSL all SWLs for return postage.

W4GHO—Lewis McLeod, Salisbury, N. C. Ed was contacted 29 stations in Ohio, so he felt right at home in receiving our letter. His answer was here undoubtedly before the ink was dry in our signature. He's 23 years old and is preparing to go into the Naval Radio Reserve School. "Shaking like a leaf," he took the exam in August, 1939, got his license in September, and in November was "adding a little QRM to the 160-meter band." "He's been broke ever since!"

A TZ40 is in the final of his present rig and a pair of 46's in the modula-

tor. Antenna is a half-wave doublet. With it Ed has contacted 2,634 stations in 13 months. Nevertheless, Ed says that he is not a DX hound, but a QSLing hound. He believes wholeheartedly in the QSL.

Ed is always glad to handle messages and if you want to hear him, tune in on the Knot Hole Net on about 1850 kcs. at 6:30 p.m., EST, on Tuesdays and Fridays. The Net boasts eight states already.

W5EHY—John Hawkins, Sallisaw, Okla. From the heart of the Indian country comes the letter from W5EHY. He is 22 years old, single, has spent four years as a motion picture operator. At present he is employed in his father's grocery business and handles Zenith radios in his district.

John became interested in amateur radio in high school about eight or nine years ago and went into the "receiver building" stage. He obtained his ticket in 1934. He will always QSL for postage and is a firm believer in the practice of QSLing.

The TZ20 and TZ40 are also used in W5EHY—the two tubes seeming to be very popular with the 160-meter phone boys. A pair of 56's drive a pair of 2A3's, which is coupled to 4-46's with Class B modulation.

Most of the ham work by W5EHY is done on 1817 kcs, although occasionally John goes to 40 and 20-meter CW. DX on the latter bands includes five continents. On 160-meter fone John has contacted 45 states, needing Utah, Delaware and Rhode Island for the list.

W7HAH — Francis D. Shepard, Kalispell, Mont. The hobby of amateur radio "just grew" on Francis, helped by friends and a flock of old radio parts that came into his possession. He is a bookkeeper in the Kalispell Laundry and is 18 years old.

The license was obtained in 1938 and he has been on since December of that year. He QSLs for postage and if the SWL is far enough away,

then he doesn't need to send postage.

Francis does not like the ham who is not a sportsman. For example, he says, one morning when the 80-meter band sounded hot (he works CW all the time), he hooked a W3, a W2 and finally a W1. Since these were new districts and the W1 a new state he asked to QSL and the W1 promised. To cut the story short Francis sent him a total of four W7HAH cards and a letter with return postage—with no results!

Hams! W7HAH needs these states for his WAS, so listen for him: Connecticut, Vermont, Maine, Maryland, Rhode Island, Delaware and New Hampshire. Frequencies used were 3585, 3694, 7084 and 7264.

W8UGF—Samuel F. Carr, Akron, Ohio. Sam saw the rig of W8LUX a little over a year ago and became interested in this radio hobby. He made up his mind to find out what made it tick. He did! He passed the exam the first crack.

Right now the rig is a 20-watter on fone and 150 on CW. A 6L6 buffer and L final is hooked to a Meissner Signal-Shifter for excitation. The antenna is a half-wave single wire and fed, 149 feet long. On CW there is a T40 in the final and the same antenna is used. Frequency on the 40 band is 7053 kcs.

On CW the total of states is 42 plus the Hawaiian Islands.

Sammy works for a power company—the Ohio Edison—and has been a substation operator for five years. That seems to be combining work with a hobby.

OTHER W NEWS—These Philadelphia hams QSL for return postage: W3IFI (20 fone and CW, 40 CW and 10 fone); W3ISN (10 fone); W3EOX (10 and 20 fone); and 3HYX, 3GVZ, 3FNA, 3GJZ, 3EVH, 3IND, 3AQM all on 10 fone.

From Massachusetts, Al Pickering says the W6's and W7's coming in good on 20 meters but that the band is going dead early. The band has been good for reception of W4's, W5's and W9's.

From Tom Smith, Jr., in Orlando, Fla.: W6NRI sends back postage, saying he doesn't feel right about taking stamps to QSL! W5HKM's card shows a picture of the Shawnee Flour Mills in color; W7HIA (SLs with a silver card with a map and call in black; W6MLG sends a Ruede del Oeste card.

These W's supposedly QSL: 1GWK, 1RMB, 2LBF, 1AW, 4EWY, 7FTV, 7GDE, 60SP, 8RNC, 8RLT, 8KUU, 8OGT, 9ZDM, 9UNI, 9BDO, 9SLS, and 9HHJ.

Bill Wells of Hamilton, Ont., has unique distinction of being the only listener—as far as we know—who has ever verified an amateur on 5437.5 kcs, the frequency used by the U. S. Army engineers.

In a letter to Bill, Jim Hawkes, the op of W11XL, rubs it in by saying that the boys (meaning the SWLs) evidently are not policing the frequencies in the spectrum as well as they might.

He says he was on three nights a week on the army frequency (but don't lok for him now because his permission to use that frequency was up Dec. 1). His amateur call was assigned while he was doing this special work

Now he's back on the ham bands, and we've missed a grand opportunity.

CHATTER—Mike Unger says to tell Cliff Tavener to move over, that the cards are rolling in by the dozens. . . . Especially to all of you and not just Al Pickering, Jr.—sure, send in the dope on the W stations. . . . Tom Smith, Jr., of Orlando, Fla., sends his

second report; he has Number R1953 in the Radex Club. . . . Phil Bates jumped from HAC to VAC since the Nov.-Dec. Radex issue; he has verified 23 of the 40 countries he has heard. . . . Bill Adams: haven't yet got my cards printed but will send one along when I do. . . . Mert Meade put up a four-element rotary beam (he's W9KXL now, you know). . . . Vernon Gibbs: we'll see what Admiral Byrd's executive committee says on the matter of veris for their Little America stations. . . . Joe Ribinski, 57 Oak St., Yonkers, N. Y., would like to hear from anyone using a Sky Buddy. . . . Mert: Thanks for your fine Xmas-O-Gram.

That's all Radexers. Get going on that contest and thanks for the many fine reports.



John Hawkins, operator of W5EHY, of Sallisaw, Okla., poses for this picture with his sister.

The Shortwave Stations

• The shortwave list is arranged by frequencies in kilocycles, and gives the schedules of the shortwave broadcasting stations. When requesting verifications from radio stations, return postage should always be sent. Return postage to foreign countries can be sent in the form of an International Reply Coupon, available at any post office, at 9c each. Unused postage stamps from many foreign countries, which can be sent instead of Reply Coupons, are available from the Return Postage Bureau, 85 Francisco Ave., Rutherford, N. J.

The Abbreviations

e—early morning, (midnight to 6 a.m. EST)

m—morning (6 am to noon, EST)

a—afternoon (noon to 6 pm EST)

n—night (6 pm to midnight EST)

D—daily

Wkdys—daily except Sunday

M thru F—Monday through Friday

Sun—Sunday

M—Monday

Tues—Tuesday

W—Wednesday

Thur—Thursday

F—Friday

Sat—Saturday

This list is intended as an easy, quick and complete reference for dial twirlers. Here's how to use it. Jot your dial setting under the kilocycle reading as you log each station. For more details and complete schedules of many of these stations see "Shortwaves in Review" if you live in the Eastern or Central Standard Time zones, or "On the West Coast" if you live in the Mountain or Pacific Standard Time zones. To use this quick reference list refer to the above abbreviations; time listings herewith are not precise. They are intended merely to give an approximate idea of the time to time for stations.

2320 TGWC Guatemala City, Guat. D-an
 3400 YV5RW Caracas, Venez. D-n.
 3420 YV3RC Merida, Venez. D-n.
 3470 ZQI Kingston, Jamaica. D-n.
 4885 HJDP Medellin, Colombia, D-n
 4920 YV5RN Caracas, Venez. D-n.
 5875 HRN Tegucigalpa, Honduras, Tues-n.
 6005 VE9DN Montreal, P. Q. D-n.
 6010 CJCX Toronto, Ont. D-man.
 6010 TIJK Puntarenas, Costa Rica. D-n.
 6020 DJC Berlin, Germany. D-ne.
 6030 CFVP Calgary, Alta. D-n.
 6033 HP5B Panama City, Pan. D-n.
 6050 GSA London, Gt. Britain. D-en.
 6080 CKFX Vancouver, B. C. D-an.

6090 ZNS Nassau, Bahamas. D-man.
 6185 TIRCC San Jose, Costa Rica. Irreg-e.
 6190 JLT Tokyo, Japan. D-a.
 6190 TGQA Quezaltenango, Guatemala. Irreg-n.
 6235 HRD Tegucigalpa, Honduras. D-n.
 6480 TGWB Guatemala City, Guat. D-man.
 6480 Noumea, New Caledonia. D-a.
 6980 XPSA Kweiyang, China. Sun-ne; Week days-ane.
 7100 CLX Havana, Cuba. D-n.
 7258 JVV Tokyo, Japan. D-a.
 7260 GSU London, Gt. Britain. D-n.
 7260 GSW London, Gt. Britain. D-n.
 7285 JLG Tokyo, Japan. D-a.
 7445 FG8AH Pointe-a-Pitre, Guadeloupe. D-a.
 7600 KKH Kahuku, Hawaii. Sun-n.
 7660 YNDG Managua, Nicaragua. Week-daysn.
 8700 COCO Havana, Cuba. D-man.
 9125 HAT4 Budapest, Hungary. D-n.
 9135 KTRC East Base, Little America. Irreg-n.
 9505 JLG2 Tokyo, Japan. D-a.
 9520 TPC13 Paris, France. D-a.
 9520 "Station Y", Germany. D-an.
 9535 JZI Tokyo, Japan. D-eman.
 9536 VPD2 Suva, Fiji. D-n.
 9545 MTCY Dairen, Manchukuo. D-em.
 9580 VLR Melbourne, Australia. D-e.
 9590 VUD2 Delhi, India. D-n.
 9610 XGOY Chungking, China. D-m.
 9615 VLQ Sydney, Australia. D-ema.
 9630 12R03 Rome, Italy. D-n.
 9650 VLW2 Perth, Australia. D-n.
 9660 LRX Buenos Aires, Arg. D-n.
 9680 VLQ5 Sydney, Australia. D-man.
 9680 XEQQ Mexico City, D. F. D-n.
 9685 TGWA Guatemala City, Guat. D-n.
 9688 LRA1 Buenos Aires, Arg. D-an.
 9692 T14NRH Heredia, Costa Rica. Tues., Thur., Sat., n.
 9700 CB970 Santiago, Chile. D-n.
 9705 Fort de France, Martinique. D-n.
 9825 SVJ Athens, Greece. D-m.
 9855 EAQ Madrid, Spain. D-n.
 9900 HH3W Port-au-Prince, Haiti. D-an.
 10140 OPM Leopoldville, Belgian Congo. D-a.
 10220 PSH Rio de Janeiro, Brazil. M., Tues., F-n.
 10250 LSK3 Buenos Aires, Arg. D-a.
 10350 LSX Buenos Aires, Arg. Dan.

- 10540 DZD Berlin, Germany. D-an.
 10950 FIQA Tananarive, Madagascar. Sat-a.
 11380 Paramaribo, Surinam. D-a.
 11418 XGRV Chungking, China. D-en.
 11680 EAQ Madrid, Spain. D-a.
 11720 CJRX Winnipeg, Man. D-n.
 11725 JVV3 Tokyo, Japan. D-m.
 11740 CB1174 Santiago, Chile. D-n.
 11740 DXC2 Oslo, Norway. D-m.
 11760 12R015 Rome, Italy. D-a.
 11760 TGWA Guatemala City, Guat. D-n.
 11770 DJD Berlin, Germany. D-an.
 11775 MTCY Dairen, Manchkuo. D-em.
 11780 Saigon, Fr. Indo-China. D-em.
 11800 JZJ Tokyo, Japan. D-em.
 11810 12R04 Rome, Italy. D-an.
 11815 JVZ Tokyo, Japan. D-em.
 11870 VLQ2 Sydney, Australia. D-a.
 11880 VLQ7 Sydney, Australia. D-ma.
 11920 XGRS Shanghai, China. D-m.
 11945 CB1180 Santiago, Chile. D-n.
 11970 "Radio Brazzaville", French Equatorial Africa. D-a.
 12450 HCJB Guayaquil, Ecuador. Daily exc. Mon., n.
 12862 W2XGB Hicksville, N. Y. Tests-ma.
 14935 PSE Rio de Janeiro, Brazil. W., Thurs., Fri.a.
 15101 CP43 Cotagatia, Bolivia. D-n.
 15105 JLG4 Tokyo, Japan. D-n.
 15160 JLU3 Tokyo, Japan. D-m.
 15170 TGWA Guatemala City, Guat. D-a.
 15200 DJB Berlin, Germany. D-m.
 15200 XGOX Chungking, China. D-m.
 17800 TGWA Guatemala City, Guat. D-a.
 17800 VLQ8 Sydney, Australia. D-ma.
 21640 GRZ London, Gt. Britain. Sun-m.

Please send us the names of friends who have shown an interest in *D*Xing 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.

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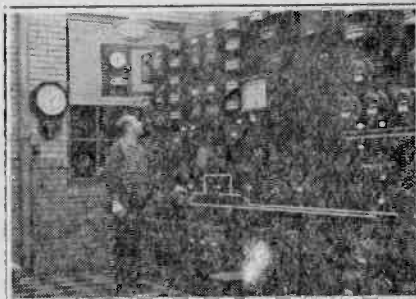
Lists over 40,000 amateurs in every country in the world, and complete lists of all the high frequency commercial stations. Every listener interested in amateur stations should have one. 292 pages.

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Emerson, N. J.



\$1.25



Top: Francis Shepard, W7HAH, Kalispell, Mont. Center: W8UGF, Akron, Ohio. Bottom: Sam Carr, W8UGF, at work at Ohio Edison Power Co.

That New Radio

Continued from page 14

to listen to distant stations.

A "regional channel" is one in which several radio stations can operate with individual station power not in excess of 5 kilowatts. A "local channel" is one in which several stations may operate with individual power not in excess of 250 watts.

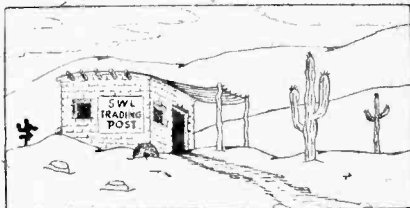
The Federal Communications Commission licenses broadcast stations to operate with 100 watts to 50,000 watts of power. These are the minimum and maximum standards held by the Commission to be in the public service. "Watt" typifies radio power just as "horsepower" represents power in mechanics. The two hardly permit comparison but, roughly 746 watts are equivalent to one horsepower.

In order to provide broadcast facilities to varying population densities, the Commission licenses four general classes of broadcast stations. A Class I station, which operates on a clear channel, uses 10,000, 25,000, or 50,000 watts power to serve remote rural areas as well as a large center of population. A Class II station, which also operates on a clear channel, uses 250, 500, 1000, 5,000, 10,000 25,000 or 50,000 watts, renders secondary service over a primary service area. A Class III station, which shares a regional channel with several similar stations, uses 500, 1000 or 5000 watts, and serves a center of population and adjacent rural area consistent with interference from other stations on the same channel. A Class IV station operates on a local frequency (shared by similar stations elsewhere) and uses 100 to 250 watts for such local service.

"Primary service" area means the area in which the ground wave is not subject to objectionable interference and fading. "Secondary service" area means an area served by the skywave without objectionable interference

but subject to intermittent variations in intensity. "Intermittent service" area means the area receiving service from the ground wave beyond the primary service area and subject to some interference and fading.

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SEE PAGE 96**



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 communication receiver).

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

Frederick Kummer, 3248 W. 48th St., Cleveland, Ohio. (Correspond with BCB DXers).

Fred R. Borchardt, 5103 N. Sherman Blvd., 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 Clechoslovakia).

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

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

Robert Camp, 1042 Water Street, Moosic, Pa. (SWL Cards).

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

Nicola Cannata, 1003 So. Halsted St., Chicago, Ill. (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, 621 Vine St., Fulton, Mo. (Correspond).

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

Don C. Johns, 1342 Campbell Ave., Des Plaines, I. (SWL Cards).

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

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

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

Allan B. Cadorath, 1825 Princess Ave., Brandon, Man., Canada. (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).

COMPLETE LIST OF "FM" STATIONS

(Broadcasting & Experimental)

FM regular broadcasting stations, most of which are not yet in operation bear distinctive call letters, the first letter being either W or K as is customary in this country, then follows the second and third number of the frequency to which the station is assigned and lastly one or more letters designating the location of the station. Regular "FM" stations are not rated by power in watts, but rather by an area in square miles which they will be licensed to serve. Experimental stations bear ordinary experimental calls like W1XOJ—always a W or K with a ham district number, and an "X" plus one or two more letters. These stations are all licensed for three months expiring March 1, at which time licenses of some may or may not be renewed. It is the aim of the FCC to have these stations eventually apply for regular station licenses.

42600 kcs.

W1XK, Hull, Mass., Westinghouse Electric, 1000 watts.

W1XSN, E. Springfield, Mass., Westinghouse Electric, 1000 watts.

W3XMC, Washington, D. C., McNary & Chambers, 1000 watts.

W8XAD, Rochester, N. Y., WHEC, Inc., 250 watts.

W9XAO, Milwaukee, Wis., The Journal Co., 1000 watts.

42800 kcs.

W2XMN, Alpine, N. J., Maj. Armstrong, 4000 watts.

W9XZR, Chicago, Ill., Zenith Radio Corp., 5000 watts.

43000 kcs.

W2XMN, Alpine, N. J., Armstrong, 1000 watts.

W8XVH, Columbus, Ohio, WBNS, Inc., 250 watts.

43200 kcs.

W2XOR, Long Island City, N. Y., J. V. L. Hogan, 1000 watts.

W3XO, Washington, D. C., Jansky & Bailey, 1000 watts.

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W8XVB, Rochester, N. Y., Stromberg Carlson, 1000 watts.

43500 kcs.

W2XOR, New York, N. Y., Bamberger Brdcast. Co., 1000 watts.

43700 kcs.

W1XSO, Hartford, Conn., The Travelers Brdcast. Service, 1000 watts.

43900 kcs.

W2XWG, New York, N. Y., N.B.C., Inc., 1000 watts.

W39B, Boston, Mass., (Mt. Washington, N. H.), Yankee Network, 31000 sq. mi.

44100 kcs.

W1XPW, Hartford, Conn., WDRC, Inc., 1000 watts.

44500 kcs.

K45LA, Los Angeles, Calif., Don Lee System, Inc., 6944 sq. mi.

W45CM, Columbus, Ohio, WBNS, Inc., 12400 sq. mi.

W45D, Detroit, Mich., Eve. News Ass'n., 6820 sq. mi.

W45RG, Baton Rouge, La., Baton Rouge Brdcast. Co., 8100 sq. mi.

W45V, Evansville, Ind., Evansville On The Air, 8397 sq. mi.

44700 kcs.

K47SL, Salt Lake City, Utah, Radio Service Corp. of Utah, 623 sq. mi.

W47A, Albany, N. Y., (New Scotland), Capitol Brdcast. Co., 6589 sq. mi.

W47C, Chicago, Ill., WJJD, Inc., 10800 sq. m.

W47NV, Nashville, Tenn., Nat. Life & Accident Ins. Co., 16000 sq. mi.

W47P, Pittsburgh, Penna., Walker Downing Radio Corp., 8400 sq. mi.

44800 kcs.

W1XOJ, Paxton, Mas., Yankee Network, Inc., 50000 watts.

44900 kcs.

W49BN, Binghamton, N. Y., Howitt-Wood Radio Co., 6500 sq. mi.

45100 kcs.

W2XWG, New York, N. Y., N.B.C., Inc., 1000 watts.

W51C, Chicago, Ill., Zenith Radio Corp., 10800 sq. mi.

W51NY, New York, N.B.C., Inc., 8500 sq. mi.

45300 kcs.

W53H, Hartford, Conn., (Avon), The Travelers Brdcast. Co., Inc., 6100 sq. mi.

45500 kcs.

W55M, Milwaukee, Wis., (Richfield), The Journal Co., 8540 sq. mi.

W55NY, New York, N. Y., Wm. G. N. Finch, 8500 sq. mi.

45700 kcs.

W57A, Albany, N. Y., (New Scotland), General Elec. Co., 6589 sq. mi.

45900 kcs.

W59C, Chicago, Ill., WGN, Inc., 10800 sq. mi.

W59NY, New York, N. Y., (Brooklyn), Frequency Brdcast. Corp., 8500 sq. mi.

46300 kcs.

W63C, Chicago, Ill., N.B.C., Inc., 10800 sq. mi.

W63NY, New York, N. Y., (Cliffside Park, N. J.), Marcus Lowe Agency, 8500 sq. mi.

W63SY (?), Syracuse, N. Y., Central N. Y. Brdcast. Co., 6800 sq. mi.

46500 kcs.

W65H, Hartford, Conn., (Meriden), WDRC, Inc., 6100 sq. mi.

46700 kcs.

W67NY, New York, N. Y., C.B.S., Inc., 8500 sq. mi.

W67C, Chicago, Ill., C.B.S., 10800 sq. mi.

46900 kcs.

W69PH, Philadelphia, Penna., WCAU Brdcast. Co.,

47100 kcs.

W71NY, New York, N. Y., Bamberger Brdcast. Corp., 8500 sq. mi.

47500 kcs.

W75NY, New York, N. Y., Metropolitan Television Corp., 8500 sq. mi.

W75P, Pittsburgh, Penna., Westinghouse Radio Stations, Inc., 8400 sq. mi.

(Cities or towns in parenthesis indicate exact transmitter location when this site differs from the primary city in the service area.)

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

The WORLD'S Radio Stations

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

The addresses of the shortwave broadcasting stations are not shown in this list.
Readers are referred to The Shortwave Broadcasting Station List for this information.

2994	KALF	...	30	Livengood, T. A. Clifton W. Hudson.
	KALZ	T	25	Grub Creek, T. A. E. C. Kraiger.
	KANK	...	10	Point Baker, T. A. A. R. Brueger.
	KANM	...	10	Burnett Inlet, T. A. Burnett Inlet Salmon Co.
	KAQM	T	3	Bethel, T. A. Society of the United Brethren for Propagating the Gospel Among the Heathen.
	KASI	...	20	Allakaket, T. A. Samon Dubin.
	KASK	...	40	Hughes, T. A. Linius McGee.
	KILY	...	50	Excursion Inlet, T. A. Northern Radio Co., 1422 Jos. Vance Bldg., Seattle, Wash.
	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc.
2996	CY30	FA	....	Charlie Lake, B. C. United Air Transport, Ltd.
2998	WXE	...	....	Anchorage, T. A.
3005	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc. Ft. Jefferson Nat'l Mon., Fla. Nat'l. Park Ser- vice.
	KAQM	T	3	Tandjong Priok, Java, N.E.I.
3040	YDA	B	10000	Calgary, Alta. Dominion Gov't.
3045	VBV6	C	....	Wichita, Kans. Aeronautical Radio, Inc.
3062	KGTD	FA	....	Salt Lake City, Utah. Same as KGTD.
	KGTR	FA	....	Roberston, Mo. Same as KGTD.
	KST	FA	....	Kansas City, Mo. Same as KGTD.
	KSV	FA	....	Amarillo, Tex. Same as KGTD.
	KSV	FA	....	Albuquerque, N. Mex. Same as KGTD.
	WAEC	PA	....	Pittsburgh, Pa. Same as KGTD.
	WAE0	FA	....	Chicago, Ill. Same as KGTD.
	WHG	FA	....	Columbus, Ohio. Same as KGTD.
	WHM	FA	....	Indianapolis, Ind. Same as KGTD.
3072.5	KGUP	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
3082	HRD	FA	14	Toncontin, Honduras. Pan American Airways
3032.5	KAAT	FA	....	Wake Island. Pan American Ways.
	KAUU	FA	....	Launch "Panair II-P." Same as KAAT.
	KABN	FA	16	Launch "Panair X-P." Same as KAAT.
	KABO	FA	....	Launch "Panair XP." Same as KAAT.
	KABU	FA	....	Launch "Panair XP." Same as KAAT.
	KABV	FA	....	Refueling and Service Barge at Sand Island. Same as KAAT.
	KAFO	FA	....	Pearl City, Oahu, T. H. Same as KAAT.
	KAFW	FA	....	Launch "Panair VI-P." Same as KAAT.
	KANB	FA	....	Sand Island, Midway Island Group. Same as KAAT.
	KAPP	FA	....	Pago Pago, Tutuila. Same as KAAT.
	KASC	FA	....	Sumay, Guam. Same as KAAT.
	KASW	FA	20	Launch "Panair X-P." Same as KAAT.
	KAXN	FA	....	Launch "Panair XIII-P." Same as KAAT.
	KHAGH	A	50	NC-14947. Lt. Col. G. R. Hutchinson, Balti- more, Md.
	KINL	FA	....	Juneau, T. A. Pacific Alaska Airways.
	KIOA	FA	20	Tanana, T. A. Same as KINL.
	KNBF	FA	....	Mokapu Peninsula, Oahu, T. H. Same as KAAT.
	KTIC	FA	16	Treasure Island, Calif. Same as KAAT.
	KTIS	FA	20	Seaplane Tender "Sea Gull," New York City. Same as KAAT.
	VEZ	FA	....	Burwash Landing, Y. T. Dominion Gov't.
	VOAC	FA	....	Grand Falls, Newfoundland. Nfld. Airport, Squadron Leader H. A. L. Pattison.
	WASL	FA	....	Launch "Panair III-A." Same as KAAT.
3035	KBBO	F	....	Bozeman, Mont.
	KB DG	F	....	Livingston, Mont.
3088	KGUP	...	....	Phoenix, Ariz. Aeronautical Radio, Inc.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
3092.5	KAGI	T	50	Hood Bay, T. A. Hood Bay Canning Co.
	KAGN	T	30	Portable in Alaska. Alaska Aeronautics & Com- munications Commission.
	KAGO	T	10	Portable in Alaska. Same as KAGN.
	KAIP	C-T	....	Daly, T. A. Pacific American Fisheries, Inc.
	KAIX	T	18	Holy Cross, T. A. Catholic Society of Alaska.
	KAKL	C	....	Kasaan, T. A. Same as KAIP.
	KBNL	T	50	Iron Creek, T. A. Southwestern Herring Co.
	KENO	T	50	Portable in Alaska. Same as KAGN.
	KEXP	T	50	Portable in Alaska. Same as KAGN.
	KGM	...	....	Ketchikan, T. A. Same as KGM.
	KIAO	...	....	Rose Inlet, T. A. Same as KGM.
	KIAP	...	....	Rose Inlet, T. A. Same as KGM.
	KIAV	...	....	Port Althrop, T. A. Same as KGM.

	KIAW	...	...	Port Althrop, T. A. Same as KGM.
	KIAX	...	...	Ketchikan, T. A. Same as KGM.
	KIAY	...	...	Ketchikan, T. A. Same as KGM.
	KIAZ	...	...	Kake, T. A. Same as KGM.
	KIBA	...	...	Kake, T. A. Same as KGM.
	KIBI	C.T	...	Daly, T. A. Same as KAJP.
	KIIP	T	30	Luckyshot, T. A. Jack M. Karteman.
	KIJH	C	...	Squaw Harbor, T. A. Same as KAJP.
	KIOH	T	...	Iron Creek, T. A. Same as KBNL.
	KIU	CH	30	Iron Creek, T. A. Same as KBNL.
	KKAA	T	25	Seattle, Wash. Yellow Band Gold Mines, Inc.
	KKAB	T	25	Seattle, Wash. Yellow Band Gold Mines, Inc.
	KLB	...	...	Port Althrop, T. A. Same as KGM.
	KLC	...	...	Kake, T. A. Same as KGM.
	KLE	...	...	Rose Inlet, T. A. Same as KGM.
	KLY	CH	...	Uganik Bay, T. A. San Juan Fishing & Packing Co., Seattle, Wash.
				Warren, T. A. Pacific American Fisheries, Inc.
3093	KATO	...	...	Squaw Harbor, T. A. Same as KAJO.
	KALG	...	...	Port Moller, T. A. Same as KAJO.
	KALH	...	100	Lazy Bay, T. A. Same as KAJO.
	KALH	...	100	King Cove, T. A. Same as KAJO.
	KALJ	...	...	Stuysbok, T. A. Vance Hitt.
	KAMG	...	20	Kalskag, T. A. Fred H. Whitcher.
	KANR	...	20	Mountain Village, T. A. Norval Douglas
	KAQL	...	25	Shepard.
3095	KBAE	F	...	Seward, T. A. (In Chugach Forest). U. S. Dept. of Agriculture, Forest Service.
				Same as Above.
	KBAF	KBAG, KBAH,	...	Mt. Shasta, Calif.
	KBCC	F	...	Salmon, Idaho. (Salmon Forest).
	KBCM	F	...	Salmon, Idaho. (Salmon Forest).
	KBCN	F	...	Elko, Nev. (Humboldt Forest).
	KBDD	F	...	Elko, Nev. (Humboldt Forest).
	KBDE	F	...	Seward, Alaska.
	KBEN	F	...	Mt. Shasta, Calif.
	KBEZ	F	...	Leavenworth, Wash.
	KBFH	F	...	Duluth, Minn. (Superior Forest).
	WVLL	F	...	Escanaba, Mich. (Upper Mich. Forest).
	WVLM	F	...	
3105				Allocated as an aircraft calling and working frequency for use by non-scheduled aircraft in the Western Hemisphere only. Only airplanes which are believed to be of interest to DXers are listed on these airplane frequencies.
	KHAGH	A	50	NC-14947 Lt. Col. G. R. Hutchinson, Baltimore, Md
	KHCY	A	100	NC-18997. American Export Airlines.
3120	KHCY	A	100	NC-18997. American Export Airlines.
3147.5	KRBD	...	400	Red Bluff, Calif. Aeronautical Radio, Inc.
3148	KEU	FA	...	Burbank, Calif. Aeronautical Radio, Inc.
	KFM	FA	...	Sacramento, Calif. Same as KEU.
	KFO	FA	...	Okaland, Calif. Same as KEU.
	KGE	FA	...	Medford, Ore. Same as KEU.
	KGOZ	FA	...	San Diego, Calif. Same as KEU.
	KGT	FA	...	Fresno, Calif. Same as KEU.
	KGTZ	FA	...	Spokane, Wash. Same as KEU.
	KITE	FA	...	Pendelton, Ore. Same as KEU.
	KIE	FA	...	Reno, Nev. Same as KEU.
	KKO	FA	...	Elko, Nev. Same as KEU.
3155	KBAL	F	100	Mineral Wash. (Snoqualmie oForest).
	KBAP	F	...	North Bend, Wash. (Snoqualmie Forest).
	KBBL	F	...	Coolin, Idaho.
	KBBM	F	...	Sandopint, Idaho. (Kaniksu Forest).
	KBBN	F	...	Sandopint, Idaho. (Kaniksu Forest).
	KBBR	F	...	Ido. Wash. (Kaniksu Forest).
	KBBW	F	...	Libby, Mont. (Kootenai Forest).
	KBCF	F	...	Custer, S. Dak. (Harney Forest).
	KBCW	F	...	Thompson Falls, Mont. (Kootenai Forest).
	KBCY	F	...	Troy, oMnt. (Kootenai, Forest).
	KBDV	F	...	Deadwood, S. Dak.
	WVKZ	F	...	Rhineland. Wis. (Nicolet Forest).
	WVLS	F	...	Forest, Miss. (Mississippi Forest).
	WOA	F	...	Jackson, Miss.
3158	YDF4	D	...	Sourabaya, Java, N. E. I.
3162.5	KRBD	...	400	Red Bluff Calif. Aeronautical Radio, Inc.
3172.5	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.
	KRCW	FA	1000	Wichita, Kans. Same as KNCN.

3182.5	KRBD	FA	400	Red Cliff, Calif., Aeronautical Radio, Inc.
3190	KADN	...	50	Baldy Mesa, Calif. City of Los Angeles Dept. of Water and Power.
	KADP	...	50	Clark Mts., Calif. Same as KADN.
	KAJH	...	20	Anchorage, T. A. Libby, McNeill & Libby
	KAMP	...	50	Craig, T. A. Same as KAJH.
	KAMS	...	100	Taku, T. A. Same as KAJH.
	KAMT	...	100	Kenai, T. A. Same as KAJH.
	KAMV	...	4	Moored Scow V No. 1., in Alaska. Same as KAJH.
	KANC	...	4	Moored Scow No. 5 No. 171693, in Alaska. Same as KAJH.
	KASY	SEM	100	Salt Lake City, Utah. Telegram Pub. Co.
	KASZ	SEM	20	Salt Lake City, Utah. Same as KASY.
	KATR	SEM	53	Mt. Shasta, Calif. State of Calif.
	KAXP	T	....	St. Michael, T. A. Northern Commercial Co.
	KBNJ	...	50	Sitka, T. A. Pyramid Packing Co.
	KBNK	...	50	Sitka, T. A. Same as KBNJ.
	KLU	...	....	Sitka, T. A. Same as KBNJ.
	KNCC	...	4	Nushagak, T. A. Same as KAJH.
	KNCD	...	4	Lockanok, T. A. Same as KAJH.
	KNCE	...	100	Ekuk, Bristol Bay, T. A. Same as KAJH.
	KNCF	...	100	Egegik, T. A. Same as KAJH.
	KNGS	...	70	Keggiung, T. A. Same as KAJH.
	WANC	SEM	300	New York City. American Legion, Ira Lou Spring Post No. 149.
	WQPX	SEM	168	Portable in Ill. State of Ill. Dept. of Pub. Works, State Highway and Maintenance Police.
3195	KBBV	F	....	Spokane, Wash.
	KBBX	F	....	Missoula, Mont.
	KBCX	F	....	Missoula, Mont.
	KBDI	F	....	Republic Wash. (Colville Forest).
	KBDO	F	....	Alturas, Calif.
	KBEQ	F	....	Missoula, Mont.
	KBES	F	....	Missoula, Mont.
	KBEU	F	....	Missoula, Mont.
	KBFA	F	....	Missoula, Mont.
	WWKA	F	....	Laconia, N. H. (White Mt. Forest).
	WWKB	F	....	Laconia, N. H. (White Mt. Forest).
	WWKC	F	....	Berea, Ky.
	WWKD	F	....	Laconia, N. H. (White Mt. Forest).
	WWKE	F	....	McKee, Ky.
	WWKF	F	....	Cleveland, Tenn. (Cherokee Forest).
	WWKG	F	....	Tellico Plains, Tenn. (Cherokee Forest).
	WWKI	F	....	Laconia, N. H. (White Mt. Forest).
	WWKJ	F	....	Weston, Vt. (Green Mt. Forest).
	WWKS	F	....	Duluth, Minn. (Superior Forest).
	WWKU	F	....	Unioci, Tenn. (Cherokee Forest).
	WWKK	F	....	St. Louis, Mo.
	WWLK	F	....	Duluth, Minn. (Superior Forest).
	WWLN	F	....	Duluth, Minn. (Superior Forest).
	WWLO	F	....	Rutland, Vt. (Green Mt. Forest).
	WWLR	F	....	Rutland, Vt. (Green Mt. Forest).
	WWLT	F	....	Ocoee, Tenn. (Cherokee Forest).
	WWLU	F	....	Bristol, Tenn. (Cherokee Forest).
	WWLV	F	....	Sabana Grande, Puerto Rico.
3202.5	KBEV	F	....	Dillon, Mont.
	KBEW	F	....	Placerville, Calif.
3222	KGTF	FA	....	Forth Worth, Texas. Aeronautical Radio, Inc.
	KGTV	FA	....	Beaumont, Texas. Same as KGTF.
	KGUA	FA	....	El Paso, Texas. Same as KGTF.
	KGUG	FA	....	Big Spring, Texas. Same as KGTF.
	KGUL	FA	....	Abilene, Texas. Same as KGTF.
	KGUN	FA	....	Douglas, Ariz. Same as KGTF.
	KGUO	FA	....	Tucson, Ariz. Same as KGTF.
	KGUP	FA	....	Phoenix, Ariz. Same as KGTF.
	KGUQ	FA	....	Indio, Calif. Same as KGTF.
	KGUR	FA	....	Glendale, Calif. Same as KGTF.
3222.5	KHCOR	A	50	NC-21750. Canadian-Colonial Airways, Inc.
	KHCOS	A	50	NC-21750. Same as above.
	WSDI	FA	50	Elkins, W. V. (Days only). Aeronautical Radio.
3235	KBAT	F	....	Olympia, Wash.
	KBAU	F	....	Olympia, Wash.
	KBAV	F	....	Quincy, Calif.
	KBCL	F	....	Logandale, Nev. (Challis Forest).
	KBCS	F	....	Hailey, Idaho. (Sawtooth Forest).
	KBDL	F	....	Sonora, Calif., Supply Dept.
	KBER	F	....	Kamela, Ore.
	KNJM	G	....	Mesa Verde Nat'l. Park, Colo., U. S. Nat'l. Park Serv., Dept. of Interior.

	KNJN	G	....	Mt. McKinley Nat'l. Park, Alaska. Same as KNJN.
	WSEH	G	....	Houghton, Mich. (Isle Royal N. P.) Same as KNJN.
	WSEI	G	....	Mott Island, Mich. Isle Royal N. P.) Same as KNJN.
3265	KAKR	...	....	Candle, T. A. Candle Community Radio Ass'n.
	KALY	C	25	Egavik, T. A. R. B. Julian.
	KBBE	F	....	Grangeville, Idaho. (Nezperce Forest).
	KBBF	F	....	Orofino, Idaho. (Clearwater Forest).
	KBBH	F	....	Orofino, Idaho. (Clearwater Forest).
	KBBI	F	....	Pierce, Idaho. (Clearwater Forest).
	KBBJJ	F	....	Orofino, Idaho. (Clearwater Forest).
	KBBU	F	....	Orofino, Idaho. (Clearwater Forest).
	KBCU	F	....	Elk City, Idaho. (Nezperce Forest).
	KBDP	F	....	Grangeville, Idaho. (Nezperce Forest).
	KBDT	F	....	Descanso, Calif. (Cleveland Forest).
	KBFC	F	....	Cascade Locks, Ore. (Mt. Hood Forest).
	KIBZ	T	....	Nevada City, Calif.
	KILO	...	100	Waterfall, T. A. Nakat Packing Corp.
	KLA	...	....	Skowl Arm, T. A. Dep Sea Salmon Co.
	WWLY	F	....	Waterfall, T. A. Same as KIBZ.
3270	CZ7N	FA	....	Villalba, Puerto Rico.
3280	CIA	T	....	Cache Bay, P. O. Canadian Airways, Ltd.
	CIPS	C	....	Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	VEW	F	....	Calgary, Alta. Same as CIA.
3295	WWLX	F	....	Calgary, Alta. Same as CIA.
3300	CY3J	T	....	Luquillo, Puerto Rico.
	CZ5Y	C	....	Anyox, B. C. Consolidated Mining & Smelting Co.
	CZ7H	T	....	Anyox, B. C. Same as CY3J.
3320	YDH4	B	30	Cedar Creek, B. C. Same as CY3J.
3322.5	KRBD	FA	400	Bandoeng, Java, N. E. J.
3350	K7XFQ	SE	150	Red Bluff, Calif. Aeronautical Radio, Inc.
	K7XFR	SE	150	Anchorage, T. A. Alaska Aeronautical & Communication Commission.
	K7XFS	SE	150	Ketchikan, T. A. Same as above.
	K7XFG	SE	150	Ketchikan, T. A. Same as above.
	K7XGG	SE	150	Juneau, T. A. Same as above.
	K7XGH	SE	150	Cordova, T. A. Same as above.
	K7XGI	SE	150	Gravina Island, T. A. Same as above.
3372.5	WAQE	FA	....	Ralston, T. A. Same as above.
	WAOS	FA	....	So. Washington, Va. Aeronautical Radio, Inc.
	WAOU	FA	....	Grand Rapids, Mich. Same as WAQE.
	WAQV	FA	....	Detroit, Mich. Same as WAQE.
	WAQW	FA	....	Milwaukee, Wis. Same as WAQE.
	WARC	FA	....	Pittsburgh, Pa. Same as WAQE.
	WAUA	FA	....	Chicago, Ill. Same as WAQE.
	WBSS	FA	....	Norfolk, Va. Same as WAQE.
	WBTC	FA	....	Sagtnaw, Mich. Same as WAQE.
	WPAT	FA	....	Sault Ste. Marie, Mich. Same as WAQE.
	WPXH	FA	....	Traverse City, Mich. Same as WAQE.
	WPXH	FA	....	Cleveland, Ohio. Same as WAQE.
	WPXL	FA	....	Buffalo, N. Y. Same as WAQE.
	WPXM	FA	....	New Cumberland, Pa. Same as WAQE.
	WPXW	FA	....	Lansing, Mich. Same as WAQE.
	WPYA	FA	....	Muskegon, Mich. Same as WAQE.
	WPYB	FA	....	Williamsport, Pa. Same as WAQE.
	WPYB	FA	....	Flint, Mich. Same as WAQE.
3386	KBAA	F	....	Baltimore, Md. Same as WAQE.
	KBAA	F	....	Portland, Ore. (Radio Laboratory). U. S. Dept. of Agriculture, Forest Service.
	KBCG	F	....	Yreka, Calif. (Klamath Forest). Same as KBAA.
3400	K7XFQ	SE	150	Anchorage, T. A. Alaska Aeronautical and Communications Commission.
	K7XFR	SE	150	Ketchikan, T. A. Same as above.
	K7XFS	SE	150	Ketchikan, T. A. Same as above.
	K7XFU	SE	150	Juneau, T. A. Same as above.
	K7XGG	SE	150	Juneau, T. A. Same as above.
	K7XGH	SE	150	Cordova, T. A. Same as above.
	K7XGI	SE	150	Gravina Island, T. A. Same as above.
	K7XGI	SE	150	Ralston, T. A. Same as above.
	YV5RW	B	....	Caracas, Venezuela. "Radio Turmioto," Cesar Banuls.
3410	KCBO	LH	50	Tillamook Rock Light, Ore. U. S. Lighthouse Service.
	KNKG	F	....	Ash Mt., Sequoia Nat'l. Park, Calif.
	KNLP	F	....	Death Valley, Calif.
	KNLP	F	....	Portland, Maine

	WPB	F	....	Poe Reef, Mich.
	WRI	LH	....	Catlinburg, Tenn. Great Smoky Nat'l. Park.
	WSEO	G	....	Dry Tortugas, Fla.
	WST	LH	....	Maniton Island, Mich.
	WWAL	LH	....	Passage Island, Mich.
	WWAM	LH	....	Rock of Ages, Mich.
	WWG	LH	....	Cheboygan, Mich.
	WWHJ	LH	....	Tender "Lyric."
	WWM	LH	....	Marquette, Mich.
	WWXC	LH	....	Lighthouse Ship "Canal."
	WZ	LH	....	Key West, Fla.
4637½	KAMB	SEM	50	General Grant N. P., Calif. U. S. Nat'l. Park Serv., Dept. of Interior.
	KNJP	G	....	Grand Teton N. P., Wyo. Same as KNJO.
	KNJQ	G	....	Sequoia Nat'l. Park, Calif. Same as KNJO.
	KNJJR	G	....	Death Valley Nat'l. Mon., Calif. Same as KNJO.
	KNJS	G	....	Mt. Rainier N. P., Wash. Same as KNJO.
	KNJU	G	....	Olympic N. P., Wash. Same as KNJO.
	WSEF	G	....	Great Smoky Mts. N. P. Same as KNJO.
3420	WWCR	LH	....	Cape Henry Lighthouse.
	WWDP	LH	....	Hender "Hollyhock."
3427.5	KBEX	F	....	Del Rosa, Calif.
	KBFB	F	....	San Bernardino, Calif.
3430	CY2Q	SP	....	Atlin, B. C., B. C. Provincial Police.
	CY4A	FA	....	Bousquet, P. Q. General Airways, Ltd.
	CY6S	F	....	Baldy Mt., B. C. Minister of Lands for B. C.
	CZC	SP	....	Bralorne, B. C. Same as CY2Q.
	CZ4B	F	....	Armstrong, Ont. Ont. Dept. of Lands and Forests.
	CZ5C	F	....	Basswood, Ont. Same as CZ4B.
	CZ7A	SP	....	Alert Bay, B. C. Same as CY2Q.
3432.5	KGTF	FA	....	Fort Worth, Texas. Aeronautical Radio, Inc.
	KGUA	FA	....	El Paso, Texas. Same as KGTF.
	KGUG	FA	....	Big Spring, Texas. Same as KGTF.
	KGUL	FA	....	Abilene, Texas. Same as KGTF.
	KGUN	FA	....	Douglas, Ariz. Same as KGTF.
	KGUR	FA	....	Glendale, Calif. Same as KGTF.
	WAEI	FA	....	Detroit, Mich. Same as KGTF.
	WAEP	FA	....	Portable. Same as KGTF.
	WAES	FA	....	Syracuse, N. Y. Same as KGTF.
	WAET	FA	....	E. Hartford, Conn. Same as KGTF.
	WAEV	FA	....	Knoxville, Tenn. Same as KGTF.
	WAPD	FA	....	Chicago, Ill. Same as KGTF.
	WAQG	FA	....	Camden, N. J. Same as KGTF.
	WAKO	FA	....	Portable. Same as KGTF.
	WAWB	FA	....	Bristol, Tenn. Same as KGTF.
	WMER	FA	....	Portable. Same as KGTF.
	WNEG	FA	....	Charleston, W. V. Same as KGTF.
	WNEH	FA	....	So. Washington, Va. Same as KGTF.
	WSDG	FA	....	Chicago, Ill. Same as KGTF.
	WSDI	FA	....	Cincinnati, Ohio. Same as KGTF.
	WSDI	FA	50	Elkins, W. V. Same as KGTF.
	WSDM	FA	....	Albany, N. Y. Same as KGTF.
	WSDO	FA	....	Buffalo, N. Y.
	WSDP	FA	....	Port Columbus, Ohio. Same as KGTF.
	WSDO	FA	....	Berea, Ohio. Same as KGTF.
	WSDZ	FA	....	Indianapolis, Ind. Same as KGTF.
3450	BU4	....	....	Indianapolis, Ind.
	YV6RC	B	....	Barcelona, Venez. Gobierno Edo. Anzoategui.
3480	YV3RF	B	....	Acarigua, Venez. "La Voz del Llano." Pausides Sigala.
	2ZR	B	200	Wellington, New Zealand.
3488	XZZ	B	50	Rangoon, Burma.
3400	CR7AB	B	....	Lourenco Marques, Mozambique.
3492.5	K6XAK	GE	1500	
	W4XID	E1	50	Kaena Point, Oahu, T. H. Globe Wireles.
	W6XCS	GE	50	W. Palm Beach, Fla. Gray Radio Co.
	W6XOW	GE	1000	San Francisco, Calif. Garlynn Eng. Co.
	W6XXT	GE	5000	Palo Alto, Calif. Stamford University.
	W7XBA	F	15	Portable. Press Wireless, Ltd.
	W7XEY	E1	60	Portable. Northern Radio Co.
	W7XEF	E1	60	Seattle, Wash. Radio Labs, Inc.
	W8XUK	GE	10	Seattle, Wash. Radio Labs, Inc.
	W8XUL	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W10XTJ	....	25	Portable. Same as W8XUK.
	W10XJP	....	15	Portable. Harvey Radio Labs., Inc.
	W10XIO	....	15	Portable, in Asia. Trans-Asia, Inc. Lawrence Thaw Expedition.
	W10XJR	....	15	Portable in Asia. Same as W10XIP.

3497	W10XJS CLX	... ...	.... 250	Portable in Asia. Same as W10XJP. Portable in Asia. Same as W10XJP. Havana, Cuba. Observatorio Nacional, Casa Blanca. 3500 to 4000 kcs.
3500	YV5RV	B	....	Amateurs
3732	TGB	FA	....	La Guaira, Venez. "Emisora Vargas," Gonzalo Veloz Mancera. Aviacion Nacional, Pais de la Aurora, Guatemala.
3750	CS2ZU	B	80	Ponta Delgada, Azores. Deodata Emilio Soares
	PWH	...	....	Abrolhos, Brazil.
4002	CT2AI	B	....	Ponta Delgada, Azores.
4030	VK8SC	SEM	....	Port Hedland, Australia. Australian Airways Medical Service.
4055	K7XFQ	SE	150	Anchorage, T. A. Alaska Aeronautical and Communications Commission.
	K7XFR	SE	150	Ketchikan, T. A. Same as above.
	K7XFS	SE	150	Ketchikan, T. A. Same as above.
	K7XFU	SE	150	Juneau, T. A. Same as above.
	K7XGG	SE	150	Cordova, T. A. Same as above.
	K7XGH	GE	150	Gravina Island, T. A. Same as above.
	K7XGI	SE	150	Ralston, T. A. Same as above.
4065	K7XFU	...	....	Juneau, T. A. Alaska Aeronautical and Communications Commission.
4098	WND	T	400	Hialeah, Fla. American Tel. & Teleg. Co., 32 Sixth Ave., New York City.
4107	HCJB2	B	1000	Quito, Ecuador.
4122.5	KBLC	FA	50	Corpus Christi, Texas. Aeronautical Radio.
	KBRN	FA	3000	Brownsville, Texas. Same as KBLC.
	KHAGH	A	30	NC-14947. Lt. Co. G. R. Hutchinson, Baltimore, Md.
	WAHY	FA	1000	Memphis, Tenn. Same as KBLC.
	WAHZ	FA	50	Birmingham, Ala. Same as KBLC.
	WARS	FA	50	Muscle Shoals, Ala. Same as KBLC.
	WEEL	FA	50	Beaumont, Texas. Same as KBLC.
	WGSA	FA	50	Greenville, S. C. Same as KBLC.
	WFAE	FA	50	Philadelphia, Pa. Same as KBLC.
	WSIM	FA	400	Tampa, Fla. Same as KBLC.
4125	KIOA	FA	20	Tanana, T. A. Pacific Alaska Airways, Inc.
4130	VK8SK	SEM	....	Broken Hill, NSW, Australia. Australian Airways Medical Service.
4135	KBAY	F	....	Milford, Utah.
4140	KHCYI	A	100	NC-18997. American Export Airlines.
4178	WOO	T	20000	Ocean Gate, N. J. American Tel. & Teleg. Co., Long Lines Dept., 32 Sixth Ave., New York City.
4200	WOY	C	....	Lawrenceville, N. J. Same as WOO.
	CP2ANA	C	....	Sipiapo, Bolivia.
4253	WKP	C	....	Lawrenceville, N. J. American Tel. & Tel. Co., Long Lines Dept., 32-6th Ave., New York City.
4273	RV15	B	200000	Khabarovsk, U. S. S. R.
4280	KMI	C	....	Dixon, Calif. Transpacific Communications Co., Ltd., 140 Montgomery St., San Francisco.
4282.5	WAD	CHT	....	Pt. Washington, Wis. Lorain County Radio Corp.
	WAS	CHT	....	Duluth, Minn. Same as WAD.
	WAY	CHT	....	Lake Bluff, Ill. Thorne Donney.
	WCY	CHT	400	West Dover, Ohio (600 w. days). Radiomarine Corp.
	WMI	CHT	....	Lorain, Ohio. Same as WAD.
4287	WOM	T	....	Hialeah, Fla. American Tel. & Teleg. Co.
4290	COY	G	....	Havana, Cuba. Press — Cultural Dept., Cuban Army.
4295	WTDV	...	250	Charlotte Amalie, Virgin Islands.
	WTDW	...	250	St. Croix, Virgin Islands.
	WTDX	...	250	St. John, Virgin Islands.
4300	4ZB	B	30	Dunedin, New Zealand.
4320	GOB	T	....	Rugby, Gt. Britain. GPO, Armour House, St. Martin's Le Grand, London ECI.
4340	VEF	G	....	Aklavik, N.W.T. Dept. of Nat'l. Defense, Dominion Gov't.
4348	CGA9	CHT	....	Drummondville, P. Q. Canadian Marconi Co.
4355	CIA	T	....	Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	CZ9X	FA	....	Carcross, Y. T. Northern Airways, Ltd.
	IAC	E	....	Pisa, Italy. Radio di Coltano Centro.
	VEF	G	....	Aklavik, N. W. T. Same as CIA.
4356	CY5D	C	....	Montreal, P. Q. Dominion Skyways, Ltd.
	VFN	FA	....	Cambridge Bay, N. W. T. Hudson's Bay Co.

	CZ4T	T		Cape Dorset, Baffin Land, N. W. T. Same as CY5D.
	CZ4Y	T		Cape Smith, N. W. T. Same as CY5D.
	CZ5H	C		Arctic Bay, Admiralty Inlet, N. W. T. Same as CY5D.
4390	NAA	G		Arlington, Va. Navy Time Signals.
	NSS	G		Arlington, Va. Navy Time Signals.
4400	CPP9	C		Vlacha, Bolivia.
4415	ZMBJ	S	300	T.S.S. "Awatea," Union Steam Ship Co. of New Zealand, Ltd.
4422 1/2	W10XKG	E2	75	Tow Boat "Alex Mackenzie," Radiomarine Corp. of America.
4436	VDO	T	400	Vancouver, B. C. North-West Telephone Co., 768 Seymour St.
4465	CFA2	C		Drummondville, P. Q. Can. Marconi Co., Box 1690, Montreal, P. Q.
4490	CZ2T	T		Cedar Bay, P. Q. Consolidated Chibougamau Goldfields, Ltd.
4495	CZ2B	T		Bridge River, B. C. North-West Telephone Co.
4500	CIA	T		Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	CIP8	C		Calgary, Alta. Same as CIA.
	CZ5K	F		Shaboygama, P. Q. Dominion Skyways, Ltd.
	VEW	T		Calgary, Alta. Same as CIA.
4505	CFW	T		Bones Bay, B. C. Canadian Fishing Co., Ltd.
	CZP	T		Claydon Bay, B. C. North-West Telephone Co.
4510	CY2L	T		Baie Comeau, P. Q. Ont. Paper Co., Ltd.
	CY20	T		Chutes aux Outardes, P. Q. Ont. Paper Co.
	CY3E	T		Clarke City, P. Q. Gulf Pulp & Paper Co.
4512	ZFS	T		Nassau, Bahamas. Sup't. of Telegraphs, Central Bay St.
4550	WDN	C		Rocky Point, N. Y. RCA Frequency Bureau, 30 Rockefeller Plaza, N.Y.C.
4560	CPO4	C		LaPaz, Bolivia.
4600	HC2ET	B		Guayaquil, Ecuador.
4610	KBAI	F		Ketchikan, T. A. U. S. Department of Agriculture, Forest Service.
	KBEO	F		Juneau, T. A. Same as KRAI.
	KBEP	F		Juneau, T. A. Same as KBAI.
	KBFM	F		Juneau, T. A. Same as KBAI.
	KBFN	F		Juneau, T. A. Same as KBAI.
	KBFO	F		Petersburg, T. A. Same as KBAI.
	KBFO	F		Juneau, T. A. Same as KBAI.
	KMYA	F		Patrol Boat "Forester." Same as KRAI.
	KMYB	F		Patrol Boat "Ranger 10." Same as KRAI.
4617	KYZA	G		El Paso, Texas. U. S. Immigration Border Patrol.
	KYZD	G		Chula Vista, Calif. Same as KYZA.
	KYZG	G		Del Rio, Texas. Same as KYZA.
	KYZF	G		El Centro, Calif. Same as KYZA.
	KYZE	G		Alpine, Texas. Same as KYZA.
	KYZC	G		Tucson, Ariz. Same as KYZA.
	KYZK	G		McAllen, Texas. Same as KYZA.
	KYZL	G		Laredo, Texas. Same as KYZA.
	KYZM	G		Lynden, Wash. Same as KYZA.
	WWMA	G		Detroit, Mich. Same as KYZA.
	WWMB	G		Buffalo, N. Y. Same as KZA.
	WWMD	G		Derby Line, Vt. Same as KYZA.
	WWMO	G		Ogdensburg, N. Y. Same as KYZA.
	WWMP	G		Rousses Point, N. Y. Same as KYZA.
3515	KNT0	G		Alhambra, Calif. Southern Calif. Edison Co.
	KODZ	SEM	50	Anaheim, Calif. Same as KAMB.
4650	KAZV	FA	100	Fairbanks, T. A. Harold Gillam.
	KBOF	FA	50	Rainy Pass District, T. A. Star Air Lines, Inc., Rhon River Emergency Field.
	KFRA	FA	100	Flat, T. A. Star Air Lines.
4707	HRT	C	200	Candle, T. A. Same as KFRA.
	KFRD	FA	100	Amapala, Honduras. Gobierno de Honduras.
4710	HRS	C	100	Roatan, Honduras. Gobierno de Honduras.
4730	KGTF	FA		Fort Worth, Tex. Aeronautical Radio, Inc.
	KGUA	FA		El Paso, Tex. Same as KGTF.
	KGUG	FA		Tucson, Ariz. Same as KGTF.
	KGUP	FA		Phoenix, Ariz. Same as KGTF.
	KCUR	FA		Glendale, Calif. Same as KGTF.
	KGTT	FA		Robertson, Mo. Same as KGTF.
	KIOO	FA		Oklahoma City, Okla. Same as KGTF.
	KIOT	FA		Tulsa, Okla. Same as KGTF.
	WVARO	FA		Portable. Same as KGTF.
	WNEHC	FA		So. Washington, Va. Same as KGTF.
	WSDC	FA		Newark, N. J. Same as KGTF.
	WSDF	FA		Louisville, Ky. Same as KGTF.
	WSDG	FA		Chicago, Ill. Same as KGTF.

	WSDH	FA	....	Nashville, Tenn.	Same as KGTF.
	WSDK	FA	....	Cincinnati, Ohio.	Same as KGTF.
	WSDP	FA	....	Memphis, Tenn.	Same as KGTF.
	WSDO	FA	....	Port Columbus, Ohio.	Same as KGTF.
4740	KBRN	EA	3000	Berea, Ohio.	Same as KGTF.
	WADY	FA	1000	Brownsville, Tex.	Aeronautical Radio, Inc.
	WSDI	FA	....	Memphis, Tenn.	Same as KBRN.
	WOET	FA	1000	Charlotte, N. C.	Same as KBRN.
	WOSJ	FA	400	Tampa, Fla.	Same as KBRN.
4742 1/2	KBLC	FA	50	Corpus Christi, Tex.	Aeronautical Radio, Inc.
	KBRN	FA	3000	Brownsville, Tex.	Same as KBLC.
	WAHY	FA	1000	Memphis, Tenn.	Same as KYBC.
	WAHY	FA	50	Muscle Shoals, Ala.	Same as KBLC.
	WEEG	FA	....	Greensboro, N. C.	Same as KBLC.
	WEEF	FA	....	Jacksonville, Fla.	Same as KBLC.
	WEEK	FA	....	Washington, D. C.	Same as KBLC.
	WEEF	FA	50	Beaumont, Tex.	Same as KBLC.
	WESP	FA	....	Newark, N. J.	Same as KBLC.
	WGSA	FA	50	Greenville, S. C.	Same as KBLC.
	WOET	FA	1000	Charlotte, N. C.	Same as KBLC.
	WPAE	FA	50	Philadelphia, Pa.	Same as KBLC.
	WSJM	FA	400	Tampa, Fla.	Same as KBLC.
4745	KBRN	FA	3000	Brownsville, Tex.	Aeronautical Radio, Inc.
	WAHY	FA	1000	Memphis, Tenn.	Same as KBRN.
	WOET	FA	1000	Charlotte, N. C.	Same as KBRN.
	WSJM	FA	400	Tampa, Fla.	Same as KBRN.
4753	WOO	T	20000	Ocean Gate, N. J.	
4755	CY4A	FA	....	Bousquet, P. O.	General Airways, Ltd.
4770	CY6E	FA	....	Beavertail Lake, Man.	Arrow Airways, Ltd.
	YVIRT	B	....	Maracaibo, Venezuela.	
4775	CJD	F	....	Campbell River, B. C.	Minister of Lands for B. C.
	CY2Q	C	....	Atlin, B. C.	B. C. Provincial Police.
	CZC	P	....	Dralorne, B. C.	Same as CY2Q.
	CZ4B	F	....	Armstrong, Ont.	Ont. Dept. of Lands & Forests.
	CZ5C	F	....	Dasswood, Ont.	Same as CZ4B.
	CZ7A	P	....	Alert Bay, B. C.	Same as CY2Q.
4780	H17GAB	B	750	Bucaramanga, Colombia.	
	YV1RO	B	....	Trujillo, Venezuela.	
4785	CZC	P	....	Dralorne, B. C.	B. C. Provincial Police
	CY2Q	P	....	Atlin, B. C.	Same as CZC.
	CZ7A	P	....	Alert Bay, B. C.	Same as CZC.
4790	H11ABB	B	600	Barranquilla, Colombia.	
	YV5RY	B	....	Caracas, Venezuela.	
4795	H13CAF	B	750	Bogota, Colombia.	
	H166FAI	B	501	Ibaguè, Colombia.	
4797 1/2	KHRH	RB	100	NC-19004, Howard R.	Hushes, N. Y. C.
	KSFM	RB	....	New York City, NBC, Inc.	30 Rockefeller Plaza.
	K6YAK	GE	1500	Kaena Point, Oahu, T. H.	Globe Wireless, Ltd.
	WNBM	RB	....	New York City, NBC, Inc.	
	W4XID	E1	50	W. Palm Beach, Fla.	Gray Radio Co.
	W6XCS	GE	50	San Francisco, Calif.	Garlynn Eng. Co.
	W6XXT	GE	5000	Portable, Press Wireless, Ltd.	
	W6YOW	GE	1000	Palo Alto, Calif.	Stanford University.
	W7XBA	E	15	Portable, Northern Radio Co.	
	W7FEZ	E1	60	Seattle, Wash.	Radio Labs, Inc.
	W8XUK	GE	10	Portable, W. V. Univ.	Dept. of Physics.
	WEXUL	GE	10	Portable, Same as W8XUK.	
	W9XAM	Time	....	Elgin, Ill.	Time signals.
	W10XIJ	GE	25	Portable, Harvey Radio Labs, Inc.	
4800	WCRN	RB	....	New York City, CBS, Inc.	485 Madison Ave.
	YV1RV	B	....	Maracibo, Venezuela.	
4805	H16FAB	B	501	Manizales, Colombia.	
4810	CYC	T	....	Amos, P. O.	Canadian Nat'l. Railway.
	YDE2	B	100	Solo, Java, N.F.I.	NIROM.
	YV-RU	R	....	Maracaibo, Venezuela.	
4815	H12BAB	B	600	Cucuta, Colombia.	
4280	GDW	T	....	Rugby, Gt. Britain G.P.O.	Armour House, St. Martin's Le Grand, London ECI.
	YV3RN	B	....	Barquisimeto, Venezuela.	
4825	CY6P	FA	....	Channing, Man.	Wines, Ltd.
	CZ3B	FA	....	Berens River, Man.	Wings, Ltd.
	H15EAD	B	720	Calif. Colombia.	
4830	YV5RH	B	....	Caracas, Venezuela.	
4835	H11ABE	B	525	Cartagena, Colombia.	
4840	CY2L	T	....	Baie Comeau, P. O.	Ont. Paper Co., Ltd.
	CY2O	T	....	Chutes aux Outardes, P. O.	Same as CY2L.
	CY2T	F	....	Berens River, Man.	Man. Dept. of Mines & Resources.
	CY3E	T	....	Clarne City, P. O.	Gulf Pulp & Paper Co.
	VUC2	B	10000	Calcutta, India.	All-India Radio.
	YV4RX	B	....	Maracay, Venezuela.	

4845	HJ3CAD	B	720	Bogota, Colombia.
4850	YV1RZ	B	....	Trujillo, Venezuela.
4855	VBV6	C	....	Calgary, Atla.
4860	CZ5K	FA	....	Chiboyama, P. Q. Dominion Skyways, Ltd.
	CZ5L	FA	....	Mud Lake, Ont. Same as CZ5K.
	CZ5M	FA	....	Rouyn, P. Q. Same as CZ5K.
	CZ9U	FA	....	St. Felicien, P. Q. Same as CZ5K.
	TGY	C	....	Guatemala City, Guat.
	VOWM	FA	....	Northwest River, Dabrador. Newfoundland Skyways, Ltd.
	YV1RL	B	300	Maracaibo, Venezuela.
4365	HJ2BAJ	B	751	Santa Marta, Colombia.
	VDO	T	400	Vancouver, B. C. North-West Telephone Co., 768 Seymour St.
4870	CIA	T	....	Barrieffield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	VSW	C	....	Calgary, Atla.
	YV2RN	B	....	San Cristobal, Venezuela.
4875	HJ6FAH	B	600	Armenia, Colombia.
4878	ZTD	B	....	Durban, Union of S. Africa.
4880	VDO	T	....	Cedar Bay, P. Q. Telephone Centre du Lac St. Jean.
	YUB2	B	10000	Bombay, India.
	YV6RU	B	....	Ciudad Bolivar, Venezuela.
4885	HJ4DAP	B	501	Medellin, Colombia.
4890	HRK	C	200	Tegucigalpa, Honduras, Gobierno de Hond.
	YV-RX	B	....	Maracaibo, Venezuela.
4895	HJ3CNU	B	720	Bogota, Colombia.
4900	YV6RT	B	....	Giudad Bolivar, Venezuela.
4910	YV-RY	B	....	Coro, Venezuela.
4917 1/2	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc.
4920	VUM2	B	1000	Madras, India.
4930	YV4RP	B	....	Caracas, Venezuela.
4837 1/2	KGUP	FA	....	Valencia, Venezuela.
	WSDM	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
4940	YV5RO	B	....	Albany, N. Y. Same as KGUP.
4947 1/2	KGUP	FA	....	Caracas, Venezuela.
	WSDM	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
4950	YV4RO	B	....	Albany, N. Y. Same as KGUP.
4952 1/2	KGUP	FA	....	Valencia, Venezuela.
	WSDM	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
4960	VUD2	B	10000	Albany, N. Y. Same as KGUP.
	YV5RS	B	....	Delhi, India.
4967 1/2	KGUP	FA	....	Caracas, Venezuela.
	KHAGH	A	50	Phoenix, Ariz. Aeronautical Radio, Inc. NC-14947. Lt. Col. G. H. Hutchinson, Baltimore, Md.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
4975	GBC	T	5000	Rugby, Gt. Britain.
	YV-RJ	B	....	Coro, Venezuela.
4980	YV5RT	B	....	Caracas, Venezuela.
4990	YV3RX	B	....	Barquisimeto, Venezuela.
5000	TFL	C	....	Reykjavik, Iceland.

Explanation of the Third Column Symbols:

A—Aircraft.	EM—Emergency.
B—Broadcast.	SEM—Special emergency.
C—Commercial Telegraph.	MF—Marine fire.
F—Forestry.	MR—Marine Relay.
G—Government.	PR—Press relay.
P—Police.	RB—Relay broadcast.
S—Ship.	FAC—Facsimile.
T—Radio Telephone.	TV—Television video.
FA—Aeronautical (ground).	TA—Television audio.
FMB—Frequency modulated broadcasting station.	NCE—Non-commercial educational.
GLO—Geophysical.	CC—Coastal Telegraph.
RC—Circular radiobeacon.	CH—Coastal harbor.
RD—Directional radiobeacon.	CHC—Coastal harbor telegraph.
RG—Direction finding station.	MT—Coastal harbor telephone.
LH—Lighthouse.	F
RR—Radio range station.	E1
MP—Municipal police.	E2
SP—State police.	E3
ZP—Zone police.	Experimental.
	GE—General Experimental.
	SE—Special Experimental.

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 Louisville, Ky. (2 units-12 w).

NORTH AMERICAN BROADCASTING STATIONS BY FREQUENCIES WITH VERIFICATION SIGNERS

KEY TO SYMBOLS

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.
H—Assigned another frequency—using this one under Special Authorization.
J—Assigned lower power than using this power under Special Authorization.
K—Licensed for facsimile.
L—Limited time.
M—Mutual Network.
N—National "Red" and "Blue" Networks.

- O**—RHC-Cadena 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.

As Shown in the
Index by Frequencies

- 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.
f—Verifies for 10 cents.
g—Card for postage; verify stamp for 10c.
z—No information available.

540 kcs. (552.2 m.)

CBK	F	5000
CMAN	O	1000

- a** Watrous Sask.
a Pinar del Rio, Cuba

550 kcs. (545.1 m.)

CFNB	F	1000
CMW		2500
KFYR	N	1000(5)
KOAC		1000
KOY		1000
KSD	R	1000(5)
KTSA	C	1000(5)
WDEV	D	1000
WGR	CM	1000(5)
WKRC	M	1000(5)
WSVA	DX	500

- a** Fredericton, N. B.
a Havana, Cuba
a Bismarck, N. Dak.
a Corvallis, Ore.
g Phoenix, Ariz.
a St. Louis, Mo.
a San Antonio, Texas
a Waterbury, Vt.
a Buffalo, N. Y.
a Cincinnati, Ohio
a Harrisonburg, Va.

W. R. Griffin, DX Ann'cr.
 Luke L. Roberts, Mgr.

Geo. Burbach, Mgr.
 G. W. Johnson, Mgr.
 Melvin Stickles, Ch. Eng.
 I. R. Lounsbury, Gen. Mgr.
 Vera Tyson
 Wendell Siler, Prog. Dir.

560 kcs. (535.4 m.)

CJL	F	1000
KFDM	N	1000
KLZ	C	5000
KSFO	C	1000(5)
KWTO	D	5000
WFIL	BM	1000
WGAN	CHXZ	500
WIND	CX	1000(5)
WIS	NX	1000(5)
WQAM	C	1000

- Kirkland Lake, Ont.
a Beaumont, Texas
a Denver, Colo.
a San Francisco, Calif.
a Springfield, Mo.
a Philadelphia, Pa.
a Portland, Me.
a Gary, Ind.
a Columbia, S. C.
a Miami, Fla.

Bernice Anderson, Sec'y.
 G. W. Meyer, Mgr.
 Philip G. Lasky, Mgr.
 Ralph D. Foster, Mgr.
 Roger W. Clipp, Gen. Mgr.

Kenneth Shirk, Ch. Eng.
 Floyd Rodgers, Prog. Dir.
 Norman MacKay, Prog. Dir.

570 kcs. (526 m.)

CMKV	O	2500
KGKO	N	1000(5)
KATR		1000
KVI	C	5000
TISCV	575	100
WKBN	CI	500(1)
WAAM	D	250
WMAX		1000
WNAX	C	1000(5)
WOSU	G1	1000
WSYR	B	1000
WWNC	C	1000

- a** Holguin, Cuba
a Fort Worth, Tex.
a Los Angeles, Calif.
a Tacoma, Wash.
z Alajuela, Costa Rica
a Youngstown, Ohio
z Marinette, Wis.
a New York, N. Y.
a Yankton, S. Dak.
a Columbus, Ohio
a Syracuse, N. Y.
a Asheville, N. C.

Harold V. Hough, Mgr.
 Kenneth Tinkham, Mgr.
 J. W. Wallace, Ch. Eng.
 Carlos Vidache A.
 A. O. Hardy

F. Hapton
 Clifton Todd, Ch. Eng.
 A. Hammerschmidt, Ch. Eng.
 Armand G. Belle Isle Chi. Eng.
 G. B. Hoskins, Ch. Eng.

580 kcs. (516.9 m.)

CFPR		50
CHRC		100
CKCL	F	1000
CKPR	F	1000

- a** Prince Rupert, B. C.
a Quebec, P. Q.
a Toronto, Ont.
a Fort William, Ont.

Felix E. Batt

CKUA	F	500
KMJ	EN	5000
KSAC	Z	500(1)
WCHS		500(5)
WDBO		100(5)
WIBW		1000(5)
WILL	D	5000
WTAG	R	1000(5)
XEMU	...	250

590 kcs. (508.2 m.)

CMCY	O	20000
KHQ	ER	5000
WEEI	C	5000
WKZO	B	1000
WOW	R	5000

600 kcs. (499.7 m.)

CFCF	BF	500
CFQC	F	1000
CJOR	...	1000
FON	609	250
KFSD	BX	1000
TIGPH	605	1000
WCAO	C	500(1)
WICC	BM	500(1)
WMT	BM	1000(5)
WREC	C	1000(5)

610 kcs. (491.5 m.)

CHNC	F	1000
CMJN	O	1000
KFAR	...	1000
KPRC	M	5000
WCLE	DM	500
WDAF	R	5000
WIOD	NX	1000
WIP	...	5000
WMUR	P	1000(5)

620 kcs. (483.6 m.)

KGW	R	1000(5)
KTAR	ENX	1000
KWFT		250(1)
TIPG	625	5000
WAGE	P	1000
WFLA		1000(5)
WHJB	D	250
WLBZ	MN	500(1)
WSUN	N	1000(5)
WTMJ		1000(5)

630 kcs. (475.9 m.)

CFCO	F	100
CFCY	F	1000
CJRC	F	1000
CKOV	F	1000
CMCD		15000
KFRU	1NXZ	500(1)
KGFX	D	200
KOH	N	1000
KVOD	B	1000
WGBF	1NXZ	500(1)
WMAL	BX	250(5)
WPRO	C	5000
XEZ	...	2000

640 kcs. (468.5 m.)

CMKN	O	1000
HOK	...	...
KFI	R	50000
VONF	...	12500
WHKC	LM	500
WOI	D	5000
XEBX	...	250
YSS	...	500

b	Edmonton, Alta.
a	Fresno, Calif.
a	Manhattan, Kans.
a	Charleston, W. Va.
a	Orlando, Fla.
a	Topeka, Kans.
a	Urbana, Ill.
a	Worcester, Mass.
z	Piedras Negras, Coah.

a	Havana, Cuba
a	Spokane, Wash.
a	Boston, Mass.
a	Kalamazoo, Mich.
a	Omaha, Nebr.

a	Montreal, P. Q.
a	Saskatoon, Sask.
a	Vancouver, B. C.
a	St. Pierre, Miquelon
a	San Diego, Calif.
a	San Jose, Costa Rica
a	Baltimore, Md.
f	Bridgeport, Conn.
a	Cedar Rapids, Iowa
a	Memphis, Tenn.

a	New Carlisle, P. Q.
a	Camaguey, Cuba
z	Fairbanks, Alaska
b	San Francisco, Calif.
a	Cleveland, Ohio
a	Kansas City, Mo.
a	Miami, Fla.
a	Philadelphia, Pa.
z	Manchester, N. H.

a	Portland, Ore.
a	Phoenix, Ariz.
z	Wichita Falls, Tex.
b	San Jose Costa Rica
z	Salina, N. Y.
a	Tampa, Fla.
a	Greensburg, Pa.
a	Bangor, Maine
a	St. Petersburg, Fla.
a	Milwaukee, Wis.

a	Chatham, Ont.
a	Charlottetown, P. E. I.
a	Winnipeg, Man.
a	Kelona, B. C.
a	Havana, Cuba
a	Columbia, Mo.
a	Pierre, S. Dak.
a	Reno, Nev.
a	Denver, Colo.
a	Evansville, Ind.
a	Washington, D. C.
a	Providence, R. I.
a	Merida, Yuc.

a	Santiago, Cuba
z	Colon, Panama
f	Los Angeles, Calif.
a	St. John's, Nfld.
a	Columbus, Ohio
a	Ames, Iowa
z	Sabinas, Cosh.
a	San Salvador, E. S.

...
I. E. Dickinson, Ch. Eng.
L. L. Longsdorf Prog Dir.
Odes Robinson, Ch. Eng.
G. Burnett
Ben Ludy, Gen. Mgr.
A. James Ebel, Ch. Eng.
Lillian Murphy, Prog Dir.
....

....
Harvey Wixson, Mgr.
Margaret Grady
John Fetzer, Gen. Mgr.
Wm. Kotera, Ch. Eng.

Kenneth Paul, Ch. Eng.
A. A. Murphy, Gen. Mgr.
D. E. Laws, Mgr.
G. Salomon
Leah McMahan, Prog. Dir.
Gonzalo Pinto H.
Mary Lewis
Garo Ray
C. F. Quentin, Ch. Eng.
S. D. Wooten Jr., Ch. Eng.

Dr. Charles Houde, owner
A. E. Lathrop, owner
Ward Ingram, Mgr.
E. L. Gove, Tech. Sup.
A. Curl
Ruth Richardson
James Allen Prog. Dir.
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H. C. Singleton, Ch. Eng.
Richard Lewis, Mgr.
D. A. Kahn, Mgr.
Claudia Hartinos
W. Walter Tison, Mgr.
Walter McCoy, Ch. Eng.
Lucille Weeks
Louis Link, Ch. Eng.
Don Abert, Mgr.

John Beardall
John Q. Adams, Ch. Eng.
G. A. Titus, Mgr.
James Browne, Ch. Eng.
J. Benitez, Mgr.
Robert Haigh, Ch. Eng.
Robt. Dye, Ch. Eng.
Merle Snider, Prog. Dir.
T. C. Ekrem, Mgr.
Pat Roper, Prog Dir.
A. E. Johnson, Ch. Eng.
Margaret O'Rourke
Jorge Palomeque

....
Dorothy Roe
....
J. E. Anderson, Ch. Eng
W. E. Stewart, Ch. Eng.
Benito Garzo O.
....

650 kcs. (461.3 m.)

TIGPH P ...
WSM N 50000

z San Jose, C. R.
a Nashville, Tenn.

Gonzalo Pinto H.
Harry Stone, Gen. Mgr.

660 kcs. (454.3 m.)

KOWH BD 500
WEAF R 50000
XEAO ... 250

a Omaha, Nebr.
a New York, N. Y.
a Mexicali, B. Cfa.

W. F. Myers, Mgr.
Audience Mail Dept.
....

670 kcs. (447.5 m.)

WMAQ R 50000
XELO ... 50000

b Chicago, Ill.
a Tijuana, B. Cfa.

Audience Mail Dept.
....

680 kcs. (440.9 m.)

KFEQ ... 500(2.5)
KPO R 50000
VAS 685 2000
WLAW DX 1000
WPTF NX 5000
.... EP 5000

a St. Joseph, Mo.
a San Francisco, Calif.
f Glace Bay, N. S.
a Lawrence, Mass.
a Raleigh, N. C.
z Santiago de Cuba

J. Wesley Koch, Ch. Eng.
Audience Mail Supervisor
....
H. W. Brown
Graham Poyner, Prog. Dir.

690 kcs. (434.5 m.)

CFRB C 10000
CJCF F 100
CMQ N 25000
TIGH ... 1000
XET ... 5000

a Toronto, Ont.
a Calgary, Alta.
a Havana, Cuba
b San Jose, Costa Rica
a Monterrey, N. L.

H. Sedgwick, Man. Dir.
R. H. Henderson, Ch. Eng.
Gonzalo Garcia
....

700 kcs. (428.3 m.)

VOWR ... 500
WLW KN 50000
WBXO Exp 500000

b St. John's, Nfld.
a Cincinnati, Ohio
a Cincinnati, Ohio

....
Wilfred Guenther, Mgr.
Wilfred Guenther, Mgr.

710 kcs. (422.3 m.)

CMGH ... 200
KIRO CX 1000
KMPC CX 1000(5)
WOR KM 50000
.... EP 5000

a Matanzas, Cuba
a Seattle, Wash.
a Beverly Hills, Calif.
a Newark, N. J.
z Santa Clara, Cuba

....
H. J. Quilliam, Mgr.
L. A. Schambin, Mgr.
J. R. Poppele, Ch. Eng.

720 kcs. (416.4 m.)

CMBL ... 5000
TI4NRH 725 750
WGN KM 50000
XEWE ... 20

a Havana, Cuba
f Heredia, Costa Rica
b Chicago, Ill.
z Silao, Gto.

Amando Cespedes Marjin
Quinn A. Ryan, Gen. Mgr.
....

730 kcs. (410.7 m.)

CFPL F 100
CJCA F 1000
CKAC C 5000
CMKU E 1000
XEQ ... 50000

a London, Ont.
a Edmonton, Alta.
a Montreal, P. Q.
a Victoria Tunas, Cuba
a Mexico City, D. F.

L. J. Yorke, Ch. Eng.
W. T. Cranston, Mgr.
Leonard Spencer, Ch. Eng.
J. M. Marroqui :1

740 kcs. (405.2 m.)

KMMJ L 1000
KTRB D 250
WHBE D 1000
WSB R 50000
XEH ... 250
XEPN AQ 50000

a Grand Island, Nebr.
a Modesto, Calif.
a Portsmouth, N. H.
a Atlanta, Ga.
a Monterrey, N. L.
z Piedras Negras, Coah.

Randall Ryan, Mgr.
Don. R. Stevens
T. R. McTammany, Mgr.
C. F. Dougherty, Ch. Eng.
Consantine de Ternava

750 kcs. (399.8 m.)

CMK ... 200
KGU LN 2500
TING ... 375

a Havana, Cuba
a Honolulu, Hawaii
z San Jose, Costa Rica

Marion A. Mulrony, Mgr.
Narcisco Garcia

WJR C 50000
 XEAA ... 200
 XFAM ... 25
 XEON ... 2000

a Detroit, Mich.
 a Mexicali, B. Cfa.
 z Matamoros, Tam.
 a Tijuana, B. Cfa.

Geraldine Elliott, Prog. Dir.
 Alberto Gonzalez
 Manuel L. Salinas

760 kcs. (394.5 m.)

CMGN O 1000
 CMHN E 1000
 CMKJ E 1000
 KXA L 1000
 WBAL HSX 2500
 WCAL DZ 5000
 WEW D 1000
 WJZ BS 50000
 WLB D2 5000

a Jovellanos, Cuba
 a Santa Clara, Cuba
 a Guantanamo, Cuba
 a Seattle, Wash.
 a Baltimore, Md.
 a Northfield, Minn.
 a St. Louis, Mo.
 a New York, N. Y.
 a Minneapolis, Minn.

Florence Wallace, Mgr.
 Gerald Cooke, Ch. Eng.
 Milford Jensen, Ch. Eng.
 Geo. Rueppel, Ch. Eng.
 Audience Mail Dept.
 Waldemar Klima, Ch. Eng.

770 kcs. (389.4 m.)

KFAB CSXZ 10000
 TILJ 775 450
 WBBM CS 50000

a Lincoln, Nebr.
 z San Jose, C. Rica
 a Chicago, Ill.

Mark W. Bullock, Tech. Dir.
 Lola Monje Peralta
 Frank Fligel

780 kcs. (384.4 m.)

CHWK F 100
 CKSO F 1000
 CMBC ... 5000
 KECA X 1000(5)
 KFDY D 1000
 KFQD ... 250
 KGHL NX 1000(5)
 WEAN BMX 1000(5)
 WMC JR 5000
 WPIC DX 250
 WPRA ... 1000(2.5)
 WTRAR NX 1000(5)
 XEN ... 1000

f Chilliwack, B. C.
 a Sudbury, Ont.
 a Havana, Cuba
 a Los Angeles, Calif.
 a Brookings, S. Dak.
 b Anchorage, Alaska
 a Billings, Mont.
 a Providence, R. I.
 a Memphis, Tenn.
 a Sharon, Pa.
 a Mayague, P. R.
 a Norfolk, Va.
 a Mexico City, D. F.

Jack Pilling, Ch. Eng.
 W. E. Mason

Jack Gross, Mgr.
 S. W. Jones, Mgr.
 R. E. McDonald, Mgr.
 Ed Youcm, Mgr.
 Rose M. Powers
 J. C. Eggleston, Mgr.
 John MacDonald, Eng.

 Lea Chadwick, DX Correspondent
 Guillermine de del Conde

790 kcs. (379.5 m.)

KGO B 7500
 KOAM DN 1000
 WGY R 50000
 ZNS ... 1000

a San Francisco, Calif.
 a Pittsburg, Kans.
 a Schenectady, N. Y.
 d Nassau, Bahamas

Lloyd E. Yoder, Mgr.
 R. L. Jones, Eng.
 W. J. Purcell, Ch. Eng.
 K. P. Brown, Sec'y.

800 kcs. (374.8 m.)

HIX ... 800
 TIXD ... 1000
 WBAP ENa 50000
 WFAA ENa 50000
 WTBO D 250

a Trujillo, D. R.
 z San Jose, Costa R.
 a Fort Worth, Texas
 a Dallas, Texas
 a Cumberland, Md.

J. R. Saladin
 Andrea Venegas
 Ellen Flake, Sec'y.
 Adams Calhoun
 Geo. R. Lenhart, Ch. Eng.

810 kcs. (370.2 m.)

CMCF ... 5000
 WCCO C 50000
 WNYC D 1000
 XEBZ ... 100

a Havana, Cuba
 g Minneapolis, Minn.
 a New York, N. Y.
 a Mexico City, D. F.

Oscar Gutierrez
 Hugh McCartney Ch. Eng.
 Issac Brimberg, Ch. Eng.

820 kcs. (365.6 m.)

WHAS C 50000
 XEBG ... 1000

a Louisville, Ky.
 z Tijuana, B. Cfa.

Lawrence Pohl
 Angel B. Fernandez

830 kcs. (361.2 m.)

CMHI O 10000
 KEUO D 1000
 KOA R 50000
 TIEP ... 3000
 WEEU DN 1000
 WHDH L 1000
 WRUF L 5000
 XERC ... 500

a Santa Clara, Cuba
 a Clayton, Mo.
 a Denver, Colo.
 a San Jose, C. Rica
 a Reading, Pa.
 a Boston, Mass.
 a Gainesville, Fla.
 z Mexico City, D. F.

....

 T. E. Stepp
 Eduardo Pinto H.
 M. Leonard Savage, Eng.
 M. Bresnahan
 Joseph Weil, Ch. Eng.
 Carlos Dragome Narro

840 kcs. (356.9 m.)

CBL F 50000
 VOGY ... 400
 XERA ... 250000

a Toronto, Ont.
 a St. John's, Nfld.
 a Villa Acuna, Coah.

W. C. Little, Ch. Eng.

 Don Howard

850 kcs. (352.7 m.)

CMCM ... 200
 KIEV D 250
 WHCU CD 1000
 WKAR C 5000
 WWL D 50000

a Havana, Cuba
 a Glendale, Calif.
 a Itaca, N. Y.
 a E. Lansing, Mich.
 a New Orleans, La.

V. Montes
 David H. Cannon
 True McLean, Ch. Eng.
 Norris Grover, Ch. Eng.
 J. D. Bloom, Ch. Eng.

860 kcs. (348.6 m.)

CMJA ... 200
 CMKS ... 200
 TIEMC ... 250
 WABC C 50000
 WHB DM 1000
 XEMO ... 5000

a Camaguey, Cuba *CMBL*
 a Guantanamo, Cuba
 z San Jose, C. Rica
 a New York, N. Y.
 a Kansas City, Mo.
 a Tijuana, B. Cfa.

Rafael Valdes
 Rafael Hine Ch.
 F. Donald Ickes
 M. H. Straight, Mgr.
 Fernando Federico Ferreira

870 kcs. (344.6 m.)

CMJM O 1000
 WENR Ba 50000
 WLS Ba 50000
 XEFB ... 5000

a Ciego de Avila, Cuba.
 b Chicago, Ill.
 a Chicago, Ill.
 a Monterrey, N. L.

....
 T. L. Rowe, Ch. Eng.
 Jesus Quintanilla

880 kcs. (340.7 m.)

CBO F 1000
 CFJC F 1000
 CMX 10000
 KFKA M2 1000
 KLX ... 1000
 KPOF ... 1000
 KRRV M 1000
 KVAN D 250
 TILS ... 500
 WCOC C 1000
 WGBI C 500(1)
 WOAN B 500(1)
 WRNL 1 1000
 WSUI ... 1000(5)

a Ottawa, Ont.
 a Kamloops, B. C.
 e Havana, Cuba
 a Greeley, Colo.
 a Oakland, Calif.
 a Denver, Colo.
 a Sherman, Texas
 z Vancouver, Wash.
 b San Jose, C. Rica
 a Meridan, Miss.
 f Scranton, Pa.
 a Scranton, Pa.
 a Richmond, Va.
 a Iowa City, Iowa

Lillian E. de Olloqui
 L. Irwine, Ch. Eng.
 Raoul Karman, Dir.
 H. E. Green, Mgr.
 P. D. Allen, Mgr.
 Wesley O. Lomlin, Annc'r.

Paul W. Spargo, Ch. Eng.
 Luis Saenz Mata
 John B. Rogers, Ch. Eng.
 K. R. Cooke, Ch. Eng.

 Walter R. Selden, Ch. Eng.
 Sylvanus Ebert, Ch. Eng.

890 kcs. (336.9 m.)

KARK NX 1000
 KFNF 2 500(1)
 KFPY C 5000
 KTKC M 1000
 KUSD 2 500
 WBAA X 500(1)
 WGST C 1000(5)
 WJAR RX 1000(5)
 WMMN CX 1000(5)
 XEW ... 100000

a Little Rock, Ark.
 a Shenandoah, Iowa
 a Spokane, Wash.
 f Visalia, Calif.
 a Vermillion, S. Dak.
 a W. Lafayette, Ind.
 a Atlanta, Ga.
 a Providence, R. I.
 a Fairmont, W. Va.
 a Mexico City, D. F.

Jack Lewis, Prog. Dir.
 Wm. MacDonald, Com. Mgr.
 T. W. Symons, Mgr.
 Chas. P. Scott, Mgr.
 B. B. Brockett, Mgr.
 Ralph R. Townsley, Ch. Eng.
 Ben Akerman, Ch. Eng.
 Thomas Prior, Ch. Eng.
 J. R. Heck, Ch. Eng.

900 kcs. (333.1 m.)

CMJX ... 200
 HIG ... 250
 KGBU ... 500
 KHJ MX 1000(5)
 KSEI N 250(1)
 KIAFB ... 600
 WBEN RX 1000(5)
 WFMD D 500
 WJAX N 1000(5)
 WYY N 5000
 WLBL D 5000
 WPAT DP 1000
 WYAU D 1000

a Camaguey, Cuba
 z Trujillo, D. R.
 a Ketchikan, Alaska
 a Los Angeles, Calif.
 a Pocatello, Idaho
 z San Jose, C. Rica
 a Buffalo, N. Y.
 a Frederick, Md.
 a Jacksonville, Fla.
 a Oklahoma City, Okla.
 a Stevens Point, Wis.
 z Paterson, N. J.
 a Quincy, Ill.

Andres Cordero Puello
 James A. Britton, Mgr.
 Lewis Allen Weiss, Mgr.
 R. A. Fletcher, Prog. Dir.
 Mayid Borzuna
 Ralph Kingsley, Ch. Eng.
 John A. Fels, Ch. Eng.
 Harry Cole, Mgr.
 Earl C. Hull, Ch. Eng.
 F. R. Calvert, Mgr.

Paul E. Miller, Ch. Eng.

910 kcs. (329.6 m.)

CBF FN 50000
 CJAT F 1000
 CKY F 15000

a Montreal, P. Q.
 a Trail, B. C.
 a Winnipeg, Man.

Francis Gondraner, Mgr.

CMKD ... 1000
 XEFE ... 250
 XENT Q 50000

920 kcs. (325.9 m.)

CMHT ... 200
 CMZ ... 5000
 KFEL ... MX 1000
 KOMO RX 1000(5)
 KPRC EXR 1000(5)
 TIRS 925 200
 WAAF D 1000
 WORL D 500
 WPEN X 1000
 WSPA D 1000
 WWJ RX 1000(5)

a Santiago de Cuba
 a Nuevo Laredo, Tam.
 a Nuevo Laredo, Tam.

z Trinidad, Cuba
 z Havana, Cuba
 a Denver, Colo.
 a Seattle, Wash.
 a Houston, Texas
 z San Jose, C. Rica
 a Chicago, Ill.
 a Boston, Mass.
 a Philadelphia, Pa.
 a Spartanburg, S. C.
 a Detroit, Mich.

Francisco Meneau
 Rafael T. Carranza
 T. Yount, Mgr.

F. E. Soto del Valle
 Gene O'Fallon, Mgr.
 Lee Barnes, Aud. Mail Dept.
 Kery Tips, Mgr.
 Rogelio Sotela B.
 Wm. E. Hutchinson, Mgr.
 Geo. Luckey, Ch. Eng.
 E. S. Long, Ch. Eng.
 Ty Tyson

930 kcs. (322.4 m.)

CFAC F 1000
 CFCH F 100
 CFLC F 100
 CHNS F 1000
 CKPC ... 100
 CMJF ... 500
 KMA B 1000(5)
 KROW ... 1000
 WBRC RX 1000(5)
 WDBJ CX 1000(5)
 WELI ... 250(5)
 XEBH ... 500

a Calgary, Alta.
 a North Bay, Ont.
 a Prescott, Ont.
 a Halifax, N. S.
 a Brantford, Ont.
 a Camaguey, Cuba
 a Shenandoah, Iowa
 a Oakland, Calif.
 a Birmingham, Ala.
 a Roanoke, Va.
 a New Haven, Conn.
 a Hermosillo, Son.

R. H. Thomson
 Vincente Salgado
 J. Rapp, Mgr.
 H. P. Drey, Mgr.
 James T. Milne, Mgr.
 Carlos Balderrama

940 kcs. (319 m.)

KOIN C 5000
 TIOS ... 500
 WAAT DX 500
 WAVE NX 1000
 WCSH RX 1000(2.5)
 WDAY NX 1000(5)
 WHA D 5000
 WICA D 1000
 WKGA P 1000(5)
 XEFO ... 5000

a Portland, Ore.
 z San Jose, C. Rica
 a Jersey City, N. J.
 a Louisville, Ky.
 a Portland, Maine
 a Fargo, N. Dak.
 a Madison, Wis.
 a Ashtabula, Ohio
 z Tampa, Fla.
 e Mexico City, D. F.

B. J. Parrish, Mgr.
 Guillermo Castro S.
 Paul H. LaStayo, Mgr.
 G. Fred Crandon, Ch. Eng.
 Julius Hetland, Ch. Eng.
 C. A. Rowley

950 kcs. (315.6 m.)

CBV F 1000
 CJRM F 1000
 CKWX F 1000
 CMHW ... 200
 CMKL ... 200
 KFWB E 5000
 KMBC C 5000
 VOAR ... 25
 WHAL DP 500
 WRC RX 1000(5)
 WTRY D 1000

a Quebec, P. Q.
 a Regina, Sask.
 a Vancouver, B. C.
 f Santa Clara, Cuba
 z Bayamo, Cuba
 a Los Angeles, Calif.
 a Kansas City, Mo.
 z St. John's, Nfld.
 z Saginaw, Mich.
 a Washington, D. C.
 a Troy, N. Y.

Alberto Alvarez Ferrera
 Harry Maizlish, Mgr.
 Arthur B. Church, Mgr.
 K. H. Berkeley

960 kcs. (312.3 m.)

CBM FR 5000
 CFRN F 100
 XEAW ... 100000

a Montreal, P. Q.
 a Edmonton, Alta.
 a Reynosa, Tam.

H. D. Munal

970 kcs. (309.1 m.)

CMCK ... 5000
 KJR B 5000
 WCFL N 5000
 WIBG L 1000

z Havana, Cuba
 a Seattle, Wash.
 a Chicago, Ill.
 a Glenside, Pa.

Luis Casas R.
 Audience Mail Dept.
 Maynard Marquardt, Ch. Eng.

980 kcs. (306 m.)

KDKA B 50000
 XEAC ... 5000

b Pittsburgh, Pa.
 a Tijuana, B. Cfa.

A. E. Nelson Mgr.
 Jorge I. Revera

990 kcs. (302.8 m.)

WBZ BS 50000
 WBZA BS 1000
 KENT ... 150000

a Boston, Mass.
 a Springfield, Mass.
 a Nuevo Laredo, Tam.

Dwight Myer, Ch. Eng.
 H. E. Randol, Mgr.
 T. Yount, Mgr.

1000 kcs. (299.8 m.)

CMKG	...	10000	z	Santiago de Cuba
KFVD	L	1000	a	Los Angeles, Calif.
TIFA	...	250	z	San Jose, C. Rica
WHO	R	50000	a	Des Moines, Iowa
XEAF	...	750	a	Nogales, Son.
XEK	...	200	a	Mexico City, D. F.
XEBI	...	250	a	Aguascalientes, Aqs.

.....
 Frank Burke, Mgr.
 Francisco Ariel
 Paul A. Loyat, Ch. Eng.

 Fernando Sada
 Pedro C. Rivas

1010 kcs. (296.9 m.)

CHML	F	100	a	Hamilton, Ont.
CKCK	F	1000	a	Regina, Sask.
CKCO	F	100	a	Ottawa, Ont.
CMBZ	...	5000	a	Havana, Cuba
KGGF	M2	1000	a	Coffeyville, Kans.
KQW	M	5000	a	San Jose, Calif.
WHN	...	1000(5)	a	New York, N. Y.
WNAD	2	1000	a	Norman, Okla.
WNOX	C	1000(5)	a	Knoxville, Tenn.
XEFQ	...	500	a	Cananea, Son.
XEU	...	500	a	Veracruz, Ver. C.

.....
 Dr. G. H. Geldert

 Hugh J. Powell
 C. S. Harper, Mgr.

 T. M. Beard, Prog. Dir.
 Pedro L. Diaz

 Fernando Pazos S.

1020 kcs. (293.9 m.)

CMHO	...	.....	z	Cienfuegos, Cuba
CMJK	...	200	z	Camaguey, Cuba
KYW	RX	10000	b	Philadelphia, Pa.
WDZ	D	1000	a	Tuscola, Ill.
XEJ	...	1000	a	Juarez, Chih.

.....
 Leslie W. Joy, Mgr.
 Mark C. Spies, Ch. Eng.
 Pedro Meneses, Jr.

1030 kcs. (291.1 m.)

CFCN	F	10000	a	Calgary, Alta.
CJBR	F	1000	a	Rimouski, P. Q.
CKLW	FM	5000	a	Windsor, Ont.
CMKW	...	1000	z	Santiago de Cuba
CMAC	P	100	z	Pinar Del Rio, Cuba
TIHO	...	500	z	San Jose, C. Rica
XEB	...	20000	a	Mexico City, D. F.

E. Marshall
 J. A. Brilliant

 Claudio Alvarez Soriano

 Guillermo Zuniga R.

1040 kcs. (288.3 m.)

KRLD	C	50000	a	Dallas, Texas
KWJJ	HL	500	a	Portland, Ore.
KYOS	DM	250	a	Merced, Calif.
VOCM	...	100	z	St. John's, Nfld.
WTIC	R	50000	a	Hartford, Conn.
....	P	1000	z	Matanzas, Cuba

Given Boyd
 Art Morey, Ann'cr.
 John W. Crews, Mgr.

 T. C. McCray

1050 kcs. (285.5 m.)

CBA	F	50000	a	Sackville, N. B.
CMCH	...	200	a	Havana, Cuba
CMCX	...	200	z	Guanabacoa, Cuba
CMKW	...	1000	z	Santiago de Cuba
HIT	...	50	z	Trujillo, D. R.
KFBI	LX2	5000	a	Wichita, Kans.
KNX	C	50000	a	Los Angeles, Calif.
WEAU	L2	1000(5)	a	Eau Claire, Wis.
WIBC	D	1000	a	Indianapolis, Ind.

.....

 A. L. Pichardo
 Donald Thornburgh, Mgr.
 L. H. Bowman

1060 kcs. (282.8 m.)

KTHS	HN	10000	a	Hot Springs, Ark.
VOAC	1065	40	z	St. John's, Nfld.
WBAL	BMX	10000	a	Baltimore, Md.
WJAG	L	1000	a	Norfolk, Nebr.

Mary F. Loyd, Sec'y.

 Gerald Cooke, Ch. Eng.
 Art Thomas, Mgr.

1070 kcs. (280.2 m.)

CMJW	...	200	z	Camaguey, Cuba
KJBS	L	500	a	San Francisco, Calif.
TINBC	P	5000	z	San Jose, C. Rica
WCAZ	D	100	a	Carthage, Ill.
WTAM	R	50000	a	Cleveland, Ohio

M. Caymares Silva
 Miriam Ford, Traffic Dept.
 Oscar Martinez N.

 May Draxell

1080 kcs. (277.6 m.)

CMGG	...	200
CMKM	...	200
WBT	C	50000
WCBF	LI	5000
WMBI	LI	5000
XEBA	...	20
XEBK	...	100
XEDP	...	500

- a Havana, Cuba
- a Manzanillo, Cuba
- a Charlotte, N. C.
- a Chicago, Ill.
- o Chicago, Ill.
- z Guzman, Jal.
- z Nuevo Laredo, Tam.
- a Mexico City, D. F.

Jesus Armesto

 A. P. Frye, Ch. Eng
 Javier Velasco
 J. M. Cortes

1090 kcs. (275.1 m.)

CMHA	...	200
HIN	...	100
KMOX	C	50000
XERB	...	50000

- z Sagua la Grande, Cuba
- z Trujillo, D. R.
- a St. Louis, Mo.
- a Tijuana, B. Cfa.

Abelardo Menocal
 J. M. Bonetti
 G. L. Tevis, Ch. Eng.

1100 kcs. (272.6 m.)

CBR	F	5000
CMHP	...	200
KGDM	DM	1000
KWKH	C	50000
WCAR	DP	1000
WOV	X	5000

- a Vancouver, B. C.
- z Placetas, Cuba
- f Stockton, Calif.
- a Shreveport, La.
- z Pontiac, Mich.
- a New York, N. Y.

....

 A. H. Green, Mgr.
 John McCormack, Mgr.

 S. H. Alper

1110 kcs. (270.1 m.)

CMCU	...	5000
CMKH	...	200
KS00	LN	5000
WRVA	CM	50000
XECL	...	1000

- a Havana, Cuba
- z—Guantanamo, Cuba
- a Sioux Falls, S. Dak.
- a Richmond, Va.
- z Mexicali, B. Cfa.

....
 M. D. Roddenbury
 Alfonso A. Lacarra

1120 kcs. (267.7 m.)

CBJ	F	100
CHLP	F	100
CHSJ	F	1000
CKOC	F	1000
CKX	F	1000
CMGF	...	200
KFIO	D	100
KFSG	a	1000(.5)
KRKD	a	1000(.5)
KSAL	...	500(1)
KRSC	E	1000
KTBC	DG2	1000
WCOP	D	500
WDEL	R	250(1)
WISN	C	250(1)
WJBO	BX	500
WKPA	D	250
WTAW	G2X	500

- a Chicoutimi, P. Q.
- a Montreal, P. Q.
- a St. John, N. B.
- a Hamilton, Ont.
- a Brandon, Man.
- a Matanzas, Cuba
- a Spokane, Wash.
- a Los Angeles, Calif.
- a Los Angeles, Calif.
- a Salina, Kans.
- a Seattle, Wash.
- z Austin, Texas
- a Boston, Mass.
- a Wilmington, Del.
- a Milwaukee, Wis.
- a Baton Rouge, La.
- a New Kensington, Pa.
- a College Station, Texas

....

 L. W. Bewick, Sec'y-Treas.

 Bernabe de la Torre
 Arthur L. Smith, Mgr.
 Ruth Pritchard
 Dr. Giles N. Knight, Mgr.

C. R. Cooper

1130 kcs. (265.3 m.)

CMJI	...	200
KSL	C	50000
WJJD	L	20000
XEJP	...	100

- a Ciego de Avila, Cuba
- a Salt Lake City, Utah
- a Chicago, Ill.
- z Mexico City, D. F.

Gilberto Gesse Lopez
 E. G. Pack; Earl J. Glade
 J. L. Ailabough
 Salvador Monterrubio R.

1140 kcs. (263 m.)

CMKY	...	5000
KVOO	N	25000
WAPI	C	5000
WSPR	LMZ	500

- z Santiago, Cuba
- a Tulsa, Okla.
- a Birmingham, Ala.
- a Springfield, Mass.

Wm. B. Way, Mgr.
 N. McFarland
 Hillis W. Holt

1150 kcs. (260.7 m.)

CMBO	...	5000
WHAM	N	50000
XEBP	...	250
XEC	...	100
XEDW	...	300
KEL	...	250
KEXH	...	400

- a Havana, Cuba
- a Rochester, N. Y.
- z Durango, Dgo.
- a Tijuana, B. Cfa.
- a Minatitlan, Ver. C.
- z Mexico City, D. F.
- z Oaxaca, Oax.

John J. Long, Ch. Eng.

 Manuel Cano M.
 Luis F. Encisco
 Hector Silva Canto

1160 kcs. (258.5 m.)

CMHJ	...	200
KEX	B	5000
WOWO	B1	10000
WWVA	CI	5000
XEAS	...	100
XED	...	2500
XEFM	...	...
XEP	...	500



a	Cienfuegos, Cuba
a	Portland, Oreg.
a	Fort Wayne, Ind.
a	Wheeling, W. Va.
a	Saltillo, Coah.
a	Guadalajara, Jal.
z	Leon, Gto.
a	Juarez, Chih.

Richardo Ugalde
H. C. Singleton, Ch. Eng.
...
E. A. Hadden, Eng.
Manuel R. Rodriguez
...
Estaban Perra

1170 kcs. (256.3 m.)

WCAU	C	50000
XEXX	...	1000



a	Philadelphia, Pa.
z	Mexico City, D. F.

J. G. Leitch
...

1180 kcs. (254.1 m.)

CMBG	...	1500
CMBX	...	200
KOB	NX	10000
WDGY	LMXZ	1000 (5)
WINS	L	1000
WMAZ	CL	1000 (5)



a	Havana, Cuba
a	Havana, Cuba
a	Albuquerque, N. Mex.
a	Minneapolis, Minn.
a	New York, N. Y.
a	Macon Ga.

T. M. Pepperday, Mgr.
Dr. Geo. W. Young
...
...

1190 kcs. (252 m.)

CMGH	...	500
CMKX	...	200
WOAI	EN	50000
WSAZ	LZ	1000



a	Matanzas, Cuba
z	Banes, Cuba
a	San Antonio, Texas
a	Huntington, W. Va.

Oscar Vidal Benitez
...
S. Swann

1200 kcs. (249.9 m.)

CHAB	F	100 (.25)
CHGB	F	100



a	Moose Jaw, Sask.
z	St. Anne de la Pocatiere, P. Q.

A. E. Jacobson, Ch. Eng.
G. Thomas Desjardins

CKNX	...	100
CKTB	F	100
CKVD	...	100
KADA	EM	250
KAST	...	250
KBTM	...	100 (.25)
KELO	N	250
KFDA	EM	250
KFJB	...	250
KFXD	...	250
KFXJ	...	250
KGDE	...	100 (.25)
KGKE	...	100
KGJF	...	100
KGHI	...	250
KHAS	...	250
KHBC	CM	250
KMLB	...	250
KODL	P	100 (.25)
KOOS	M	250
KPHO	P	250
KSUN	E	250
KVCV	M	250
KVEC	M	250
KVNU	...	250
KVOS	M	250
KWG	BE	100
KWNO	E	250
TIRCC	...	500
WABI	C	250
WAIM	C	100
WAJR	P	250
WAYX	...	250
WBAB	...	250
WBBZ	M	250
WBHP	X	100
WBLJ	P	250
WBOW	N	250
WCAT	D	100
WCAX	C	250
WCBT	P	250
WCED	P	250
WCLO	...	250
WCOL	N	250
WCPO	...	250
WDLP	...	100 (.25)

a	Wingham, Ont.
a	St. Catharines, Ont.
z	Val d'Or, P. Q.
a	Ada, Okla.
a	Astoria, Ore.
a	Jonesboro, Ark.
a	Sioux Falls, S. Dak.
a	Amarillo, Tex.
a	Marshalltown, Iowa
a	Nampa, Idaho
a	Grand Junction, Colo.
b	Fergus Falls, Minn.
f	Sterling, Colo.
a	Los Angeles, Calif.
a	Little Rock, Ark.
a	Hastings, Nebr.
a	Hilo, Hawaii
a	Monroe, La.
z	The Dalles, Oreg.
a	Marshfield, Ore.
z	Phoenix, Ariz.
a	Lowell, Ariz.
a	Redding, Calif.
a	San Luis Obispo, Calif.
z	Logan, Utah
d	Bellingham, Wash.
a	Stockton, Calif.
a	Winona, Minn.
z	San Jose, C. Rica
a	Bangor, Maine
a	Anderson, S. C.
z	Morgantown, W. Va.
a	Wavcross, Ga.
a	Atlantic City, N. J.
a	Ponca City, Okla.
a	Huntsville, Ala.
z	Daeton, Ga.
a	Terre Haute, Ind.
a	Rapid City, S. Dak.
a	Burlington, Vt.
z	Roanoke Rapids, N. C.
z	Du Bois, Pa.
a	Janesville, Wis.
a	Columbus, Ohio
a	Cincinnati, Ohio
a	Panama City, Fla.

B. Howard Bedford, Asst. Mgr.
E. T. Sandell
...
Warren Moore, Prog. Dir.
Lawrence King, Ch. Eng.
Jay P. Beard, Mgr.
Joseph Henkin, Mgr.
...
Homer Griffith, Mgr.
Edward Hurt, Mgr.
Rex Howell, Mgr.
Mat E. Wakz, Ch. Eng.
Elmer G. Beeher
Thelma Kirchner, Prog. Dir.
Orville Rennie, Mgr.
...
Webley Edwards, Mgr.
J. C. Liner, Jr., Mgr.
...
Roger L. Spaugh, Ch. Eng.
...
Carleton W. Morris, Mgr.
Harold Smithson, Mgr.
Earl Travis, Ch. Eng.
J. M. Reeder, Ch. Eng.
...
George Ross, Mgr.
A. E. Mickel, Mgr.
Carlos Borge
Ralph Wallace, Mgr.
Cecil Crawford
...
Jack Williams
...
Don Mitchell, Ch. Eng.
...
...
C. M. Rowe, Prog. Dir.
James Tierney, Ch. Eng.
...
...
Charles Brannen, Ch. Eng.
...
Glen A. Davis, Ch. Eng.
...

WDSM	M	100
WENY	M	250
WEST	M	250
WESX		100
WFAM	4	100
WFTC	...	250
WGRB	P	250
WHBC	M	250
WHBY	E	250
WHOP	...	250
WIBX	C	250
WIL	...	250
WJBC	...	250
WJBW	...	250
WJHL	XZ	250
WJNO	C	250
WJOB	4	100
WJRD	E	250
WKBO	N	250
WLOF	P	250
WLOG	D	100
WLVA	...	250
WMFR	...	250
WMOB	...	250
WMPC	G	250
WOLS	N	250
WRBL	C	250
WSAM	G	100 (.25)
WSKB	...	250
WSOO	...	100 (.25)
WTHT	M	250
WTOL		250
....	P	250

1210 kcs. (247.8 m.)

CHLT	...	100
CJCS	...	50
CKBI	FX	250
CKCH	F	100
CKMC	...	50
CKNB	F	100
CMCO	...	200
CMHK	...	200
CMOA	...	200
KALB	...	250
KANS	N	250
KASA	M	100
KBIZ	P	100
KDLR	...	250
KDON	M	100
KFJI	...	100
KFOR	EMX	100 (.25)
KFXM	M2	250
KGLO	C	250
KGY	M	100
KHBG	...	250
KIUL	...	100
KLAH	...	250
KOCA	...	250
KOVO	EM	250
KPFA	EN	250
KPPC	2	100
KROY	C	100
KVSO	M	100 (.25)
KWAT	...	250
KWJB	...	250
KXOX	...	250
KYUM	E	250
WATN	P	250
WBAX	AM	100
WBBL	5	100
WBIR	P	100 (.25)
WBRB	3	100
WCOU	M	250
WCOV		100
WCRW	4	100
WEBO	...	250
WEDC	G4	250
WFAS	3	250
WFOY	...	250

z Superior, Wis.
d Elmira, N. Y.
a Easton, Pa.
z Salem, Mass.
a South Bend, Ind.
a Kinston, N. C.
z Grand Rapids, Mich.
a Canton, Ohio
a Appleton, Wis.
a Hopkinsville, Ky.
a Utica, N. Y.
a St. Louis, Mo.
a Bloomington, Ill.
a New Orleans, La.
a Johnson City, Tenn.
a W. Palm Beach, Fla.
a Hammond, Ind.
a Tuscaloosa, Ala.
a Harrisburg, Pa.
z Orlando, Fla.
a Logan, W. Va.
a Lynchburg, Va.
a High Point, N. C.
a Mobile, Ala.
a Lapeer, Mich.
a Florence, S. C.
a Columbus, Ga.
a Saginaw, Mich.
a McComb, Miss.
a Sault Ste. Marie, Mich.
a Hartford, Conn.
a Toledo, Ohio
z Baltimore, Md.

z Sherbrooke, P. Q.
a Stratford, Ont.
a Prince Albert, Sask.
a Hull, P. Q.
a Cobalt, Ont.
a Campbellton, N. B.
a Havana, Cuba
z Cruces, Cuba
a Havana, Cuba
a Alexandria, La.
a Wichita, Kans.
a Elk City, Okla.
z Ottumwa, Iowa
a Devils Lake, N. Dak.
a Monterey, Calif.
a Klamath Falls, Ore.
a Lincoln, Nebr.
a San Bernardino, Calif.
z Mason City, Iowa
a Olympia, Wash.
a Okmulgee, Okla.
a Garden City, Kans.
a Carlsbad, N. Mex.
a Kilgore, Texas
a Provo, Utah
a Helena, Mont.
a Pasadena, Calif.
a Sacramento, Calif.
a Ardmore, Okla.
a Watertown, S. Dak.
a Globe, Ariz.
z Sweetwater, Tex.
a Yuma, Ariz.
z Watertown, N. Y.
a Wilkes-Barre, Pa.
a Richmond, Va.
z Knoxville, Tenn.
a Red Bank, N. J.
a Lewiston, Maine
z Montgomery, Ala.
a Chicago, Ill.
a Harrisburg, Ill.
a Chicago, Ill.
a White Plains, N. Y.
a St. Augustine, Fla.

Fred A. Baxter
 J. E. Mathiot, Ch. Eng.
 Al Todd; Paul Mangus
 Jonas Weiland
 Kenneth Sliker, Ch. Eng.
 W. J. Stangel, Ch. Eng.
 David Foote, Ch. Eng.
 C. H. Stoup, Ch. Eng.
 A. M. McGregor
 Charles C. Carlson
 O. K. Garland, Ch. Eng.
 Reginald B. Martin
 Randolph Bean, Prog. Dir.
 James R. Doss, Jr.
 Charles Myers, Ch. Eng.
 Sid Tear, Ann'c'r.
 J. T. Orch, Eng.
 E. J. Day, Ch. Eng.
 A. B. Quigley
 Hollis F. Hayes, Ch. Eng.
 O. Lee Stone
 Oliver Hely, Ch. Eng.
 Richard K. Blackburn
 Frank B. Ridgeway

Marcel Provst, Mgr.
 Frank M. Squires
 Gerald Prest
 R. L. MacAdam
 C. S. Chapman, Mgr.
 R. G. Gonzalez
 Virgil Evans, Prog. Dir.
 Herbert Hollister, Mgr.
 Lyman Brown, Prog. Dir.
 Merle Bjork, Ch. Ann'c'r.
 Howard Walters, Mgr.
 Geo. Kincaid, Mgr.
 Don Searle, Mgr.
 J. C. Lee, Mgr.
 F. C. Eighmey, Mgr.
 W. R. Taft, Mgr.
 A. F. Schultz, Ch. Eng.
 F. D. Conard, Mgr.
 Jack Hawkins, Mgr.
 H. A. Degner, Mgr.
 E. B. Craney, Mgr.
 David Black, Mgr.
 Milton Cooper, Ch. Eng.
 Paul W. Ross, Ch. Eng.
 Bartley Sims, Mgr.
 Drury Lenington, Prog. Dir.
 Leslie Hall, Ch. Eng.
 Al Thompson, Ch. Eng.
 Clinton R. White
 J. R. Tate, Ch. Eng.
 Caleb Frisk, Ch. Eng.
 Frank Seitz
 Bradley Overton, Ch. Eng.

WFTM	...	250
WGAC	P	250
WGBB	3	100
WGCM	...	250
WGGM	P	250
WGRM	...	250
WHAI	M	250
WHBU	...	250
WHIZ	N	250
WIBU	...	250
WINN	...	100(.25)
WJBY	E	250
WJEJ	...	250
WJIM	B	250
WJLS	...	250
WJMC	D	250
WJTN	B	250
WJW	M	250
WKOK	...	250
WLOK	X	100
WMFG	C	250
WOCB	...	250
WOMT	...	100
WPAX	...	250
WPID	5	250
WRAL	M	250
WSAY	M	250
WSBC	G4	250
WSIX	M	250
WSNJ	...	250
WSOC	MNX	100(.25)
WTAX	...	100
WTMA	N	250
XEAT	...	250
XEE	...	50
XEFV	...	50

1220 kcs. (245.8 m.)

KFKU	a	1000(5)
KPAC	...	500
KTMS	BEX	500
KTW	2	1000
KWSC	2	1000(5)
TIGPH	1225	1000
WCAD	D	500
WCAE	MR	5000
WDAE	C	5000
WGNV	D	250
WREN	aB	1000(5)
XEBL	...	500
XEDA	...	200
XETF	...	12

1230 kcs. (243.8 m.)

CMJE	...	200
KGBX	NX	500
KGGM	C	1000
KYA	E	1000(5)
WALB	DP	1000
WFBM	CX	5000
WNAC	RX	1000(5)
WOL	M	1000
XECA	...	250
XEG	X	250
XEHK	...	125
XEHR	...	250
XELK	...	100
XEOX	...	250

1240 kcs. (241.8 m.)

CJCB	F	1000
CMAB	...	200
CMHB	...	200
KFJZ	MX	1000
KGCU	N	250
KTFI	N	1000
WHBF	MX	1000
WKAQ	CXZ	1000
WXYZ	RX	1000(5)

a Ft. Myers, Fla.
a Augusta, Ga.
a Freeport, N. Y.
a Gulfport, Miss.
z Gainesville, Ga.
a Greenwood, Miss.
a Greenfield, Mass.
a Anderson, Ind.
a Zanesville, Ohio
a Pownette, Wis.
a Louisville, Ky.
a Gadsden, Ala.
a Hagerstown, Md.
z Lansing, Mich.
z Beckley, W. Va.
z Rice Lake, Wis.
a Jamestown, N. Y.
a Akron, Ohio
a Sunbury, Pa.
a Lima, Ohio
a Hibbing, Minn.
a Hyannis, Mass.
a Manitowoc, Wis.
a Thomasville, Ga.
a Petersburg, Va.
a Raleigh, N. C.
a Rochester, N. Y.
a Chicago, Ill.
a Nashville, Tenn.
a Bridgeton, N. J.
a Charlotte, N. C.
a Springfield, Ill.
a Charleston, S. C.
a Parral, Chih.
a Durango, Dgo.
a Juarez, Chih.

a Lawrence, Kans.
z Port Arthur, Texas
z Santa Barbara, Calif.
a Seattle, Wash.
a Pullman, Wash.
b San Jose, C. Rica
a Canton, N. Y.
a Pittsburgh, Pa.
a Tampa, Fla.
a Newburgh, N. Y.
a Lawrence, Kans.
z Mazatlan, Sin.
z Mexico City, D. F.
a Veracruz, Ver. C.

z Camaquey, Cuba
a Springfield, Mo.
a Albuquerque, N. Mex.
a San Francisco, Calif.
z Albany, Ga.
a Indianapolis, Ind.
a Boston, Mass.
a Washington, D. C.
z Tampico, Tam.
z Monterrey, N. L.
z Guadalajara, Jal.
a Puebla, Pue.
a Zacatecas, Zac.
a Los Mochis, Sin.

a Sydney, N. S.
z Pinar del Rio, Cuba
z Sancti Spiritus, Cuba
a Fort Worth, Texas
a Mandan, N. Dak.
a Twin Falls, Idaho
a Rock Island, Ill.
a San Juan, Puerto Rico
a Detroit, Mich.

Harry H. Carman
C. H. Dyess, Ch. Eng.
C. A. Perkins, Ch. Eng.
James L. Spates, Mgr.
R. F. Fulwider, Ch. Eng.
Ronald Woodyard, Mgr.
Vernon Story, Ch. Eng.
G. Harold Brewer
Leo Yiha, Ch. Eng.
Joe L. Smith, Jr.
Walter McGenty
Gene LaValle, Prog Dir.
Paul L. Miller, Eng.
S. L. Gladfelter, Ch. Eng.
Charles Persons, Ch. Eng.
Francis M. Kadow
H. Wimpy
R. E. Ritch
Thurlow Greene
Ed Jacker, Ch. Eng.
James Turner
L. L. Caudle, Ch. Eng.
Edward Ring, Ch. Eng.
D. M. Dradham, Ch. Eng.
David G. Cervantes
Alejandro O. Stevenson
Dario Cordoba

Harold Ingham, Mgr.
Joe Walters, Ch. Eng.
Norman McLaughlin, Mgr.
Dr. M. A. Matthews, Mgr.
Kenneth Yeend, Mgr.
Gonzalo Pinto H.
Dr. Ward C. Priest, Ch. Eng.
James Schultz, Ch. Eng.
Joseph Smiley, Mgr.
Vern Omer, Ch. Eng.
Ignacio L. Saiz
Pedro Riestra Diaz
Jose Rodriguez Lopez

Primo Alfonso Casares
R. D. Foster, Mgr.
Mike Hollander, Mgr.
Frances Pike, Prog. Dir.
N. N. Lyon, Ch. Technician
Nicolas M. Picet
Rodolfo Junco de la Vega
Francisco Martinez
Ortelio Ramirez
H. Sutton, Ch. Eng.
John E. Gardner, Mgr.
Robert Sinnett, Eng.
A. P. Del Valle, Ch. Eng.
Lynn Smeby, Ch. Eng.

XEAD A 500
XEBC A 100
XEBU ... 50
XECW ... 250
XEDF ... 100
XEDL ... 500
XEJS ... 100
XEKL A 500
XEKS ... 100
XEME ... 400
XEOA ... 450

1250 kcs. (239.9 m.)

CMBS ... 200
CMCB ... 200
CMKC ... 200
KFOX ... 1000
KIT FM 1000
KXOK XZ 1000
WAIR DM 250
WDSU BX 1000
WHBI 2 1000 (2.5)
WKST D 1000
WMRO D 250
WNEW 2X 1000 (5)
WTCN B 1000 (5)
XEAI ... 500

1260 kcs. (238 m.)

CMJO ... 200
KGVO ... 1000 (5)
KHSL M 500 (1)
KOIL CEMX 1000 (5)
KRGV N 1000
KUOA D 5000
KVOA EN 1000
WFVA D 250
WHIO CX 1000 (5)
WHLD D 1000
WNBX CMXY 1000
WTOC C 1000 (5)

1270 kcs. (236.1 m.)

CMHD ... 200
KGCA DQ2 100
KOL M 1000 (5)
KVOR C 1000
KWLC D2 100
WASH aDN 500
WFBR R 1000 (5)
WIDX R 1000 (5)
WOOD aN 500
WVNY DP 500
XESM ... 100
XEXB A 250
XEXF ... 17

1280 kcs. (234.2 m.)

CMKO ... 200
KFBB CX 1000 (5)
KLS X 250
WCAM 2 500
WCAP 2 500
WDD CX 1000 (5)
WIBA NX 1000 (5)
WORC CX 500
WRR MX 500
WTNJ 2 500
XEKR ... 100
XEMX A 100
.... P 1000 (5)

1290 kcs. (232.4 m.)

CJHC P 1000
CMBD ... 5000
CMBF ... 5000
KDYL R 1000 (5)
KLCN D 100

z Aguascalientes Ags.
z Morelia, Micho.
z Chihuahua, Chih.
z Cordoba, Ver. C.
a Nuevo Laredo, Tam.
z Navojos, Son.
z Cananea, Son.
b Leon, Gto.
z Saltillo, Coah.
z Merida, Yuc.
a Oaxaca, Oax.

a Havana, Cuba
a Havana, Cuba
a Santiago, Cuba
a Long Beach, Calif.
a Yakima, Wash.
z St. Louis, Mo.
a Winston-Salem, N. C.
a New Orleans, La.
a Newark, N. J.
a New Castle, Pa.
z Aurora, Ill.
a New York, N. Y.
a Minneapolis, Minn.
z Mexico City, D. F.

a Ciego de Avila, Cuba
a Missoula, Mont.
a Chico, Calif.
a Omaha, Nebr.
a Weslaco, Texas
a Siloam Springs, Ark.
a Tucson, Ariz.
z Fredericksburg, Va.
a Dayton, Ohio
a Niagara Falls, N. Y.
a Springfield, Vt.
a Savannah, Ga.

d Calbarien, Cuba
a Decorah, Iowa
a Seattle, Wash.
a Colorado Springs, Colo.
a Decorah, Iowa
a Grand Rapids, Mich.
a Baltimore, Md.
a Jackson, Miss.
a Grand Rapids, Mich.
z Watertown, N. Y.
z Mexico City, D. F.
a Jalapa, Ver. C.
z Texcoco, D. F.

z Holguin, Cuba
a Great Falls, Mont.
a Oakland, Calif.
a Camden, N. J.
a Asbury Park, N. J.
b Chattanooga, Tenn.
a Madison, Wis.
a Worcester, Mass.
a Dallas, Texas
a Trenton, N. J.
z Mexico City, D. F.
z Mexico City, D. F.
z Indianapolis, Ind.

z Halifax, N. S.
z Havana, Cuba
z Havana, Cuba
a Salt Lake City, Utah
a Blytheville, Ark.

....

Feliciano Lopez Islas

Ruperto Villarreal

P. Villamil Cisero

....

Ramon Duran
Hal G. Nichols, Mgr.
James A. Murphy, Mgr.
Allen Franklin, Prog. Dir.
Geo. D. Walker, Mgr.
Fred Fabre, Ch. Eng.
Irwin R. Wolfe, Ch. Eng.
A. W. Graham
Leo S. Burch, Ch. Eng.
Max Weiner, Ch. Eng.

Garmen Gutierrez

Bonifacio Ildelfonso
A. J. Mosby, Mgr.
Harold Smithson, Mgr.
Don Searle, Mgr.
Ken L. Gibson, Mgr.
C. M. Books, Mgr.
Gil Maynir, Prog. Dir.

Ernest Adams, Ch. Eng.
Norman Steinbruch
Wm. B. Smart, Prog. Dir.

Manuel Alvarez M.
Elmer Pederson, Mgr.
Charles Greenley
Hugh Terry, Mgr.
Dr. O. J. H. Preuss
Sandy Mek, Prog. Dir.
Wm. O. Ranft, Ch. Eng.
Percy Root, Ch. Eng.
Sandy Meek, Prog. Dir.

Manuel Angulo Faran
Jessie Jacobson, Mgr.
S. W. Warner, Mgr.
R. L. Horn, Prog. Dir.

Frank S. Lane, Mgr.
M. F. Chapin, Ch. Eng.
M. P. Stanton
Chas. Jordan, Prog. Dir.
E. P. Knowles, Ch. Eng.

Alfonso Avalos

S. S. Fox, Mgr.
C. L. Lintzenich, Mgr.

KTRH C 1000(5)
 WATR ... N 250
 WEBC N 1000(5)
 WJAS C 1000(5)
 WJHP ... 250
 WNBZ D 100
 WNEL X 1000(.25)

1300 kcs. (230.6 m.)

KALE M 1000(5)
 KFAC ... 1000
 KFH CX 1000(5)
 WBBR 2 1000
 WEVD 2 1000
 WFBC NX 1000(5)
 WHAZ 2 1000
 WHRL ... 250(1)
 WLOL ... 1000

1310 kcs. (228.9 m.)

CFGP ... 100
 CHCK ... 50
 CJLS F 100
 CKCV F 100
 CMKE ?
 KARM C 250
 KBND ... 250
 KCKN E 250
 KCRJ E 250
 KPFL ... 100(.25)
 KFYO M 250
 KGEZ ... 100
 KGFW ... 250
 KHUB ... 250
 KMYR P 100(.25)
 KOCY ... 250
 KOME EM 250
 KPDN 100
 KRJF P 250
 KRMD ... 250
 KROC EN 250
 KRRV DMXZ 250
 KSRO ... 250
 KSUB ... 100
 KUIN ... 250
 KVIC ... 250
 KVOL ... 250
 KVOX E 250
 KVSF C 100
 KWFC ... 250
 KWLM P 100
 KWOC ... 250
 KWOS ... 250
 KXRO M 250
 TGI ...
 WAAML ... 250
 WBRE N 250
 WBRC M 250
 WBRW ... 250
 WCLS ... 100
 WCMJ M 250
 WDAK ... 250
 WDMJ ... 250
 WEBR B 250
 WEMP ... 250
 WEXL ... 50
 WFRG R 250
 WFDF BXZ 100
 WFHR P 100(.25)
 WFIG ... 100(.25)
 WGAU ... 250
 WGH K 250
 WGMT ... 250
 WHAT 4 100
 WINX P 250
 WIZE P 100
 WJPF ... 250
 WJPR ... 250
 WLAK N 250
 WLAV ... 250

a Houston, Texas
 a Waterbury, Conn.
 a Duluth, Minn.
 a Pittsburgh, Pa.
 a Jacksonville, Fla.
 a Saranac Lake, N. Y.
 a San Juan, Puerto Rico

a Portland, Ore.
 a Los Angeles, Calif.
 a Wichita, Kans.
 a Brooklyn, N. Y.
 a New York, N. Y.
 a Greenville, S. C.
 a Troy, N. Y.
 a Shebovgan, Wis.
 a Minneapolis, Minn.

a Grande Prairie, Alta.
 a Charlottetown, P. E. I.
 a Yarmouth, N. S.
 a Quebec, P. Q.
 z Manzanillo, Cuba
 a Fresno, Calif.
 z Bend, Ore.
 a Kansas City, Kans.
 a Jerome, Ariz.
 f Dublin, Texas
 a Lubbock, Texas
 a Kalispell, Mont.
 a Kearney, Nebr.
 a Watsonville, Calif.
 a Denver, Colo.
 a Oklahoma City, Okla.
 z Tulsa, Okla.
 a Pampa, Texas
 z Miles City, Mont.
 a Shreveport, La.
 a Rochester, Minn.
 a Sherman, Texas
 a Santa Rosa, Calif.
 a Cedar City, Utah
 a Grants Pass, Ore.
 a Victoria, Texas
 a Lafayette, La.
 a Moorhead, Minn.
 a Santa Fe, N. Mex.
 a Hot Springs, Ark.
 z Willmar, Minn.
 a Poplar Bluff, Mo.
 a Jefferson City, Mo.
 a Aberdeen, Wash.
 d Guatemala City, Guat.
 a Laurel, Miss.
 a Wilkes-Barre, Pa.
 a Pittsfield, Mass.
 z Welch, W. Va.
 a Joliet, Ill.
 a Ashland, Ky.
 a West Point, Ga.
 a Marquette, Mich.
 a Buffalo, N. Y.
 a Milwaukee, Wis.
 a Royal Oak, Mich.
 a Altoona, Pa.
 a Flint, Mich.
 z Wisconsin Rapids, Wis.
 a Sumter, S. C.
 a Athens, Ga.
 a Newport News, Va.
 a Wilson, N. C.
 a Philadelphia, Pa.
 z Washington, D. C.
 z Springfield, Ohio
 a Herrin, Ill.
 z Greenville, Miss.
 z Lakeland, Fla.
 a Grand Rapids, Mich.

B. F. Orr, Mgr.

 Chas. Persons, Ch. Eng.
 Walter McCoy, Ch. Eng.
 Carlisle Wright, Mgr.
 Albert J. Kanze, Ch. Eng.
 Juan Piza

Dick Rand, Prog. Dir.
 E. Tyler, Log Dept.
 Russell L. Lowe, Mgr.

 Frank Blair, Prog. Dir.
 H. D. Harris, Ch. Eng.
 Herbert Mayer, Ch. Eng.

....
 Laurie L. Smith

 Lou Keplinger, Mgr.

 Ralph Nelson, Prog. Dir.
 Irvin Faulkner, Ch. Op.
 C. B. Baxter, Mgr.
 De Witt Landis, Mgr.
 Donald Treloar
 Clark Standiford, Mgr.
 John Bennett, Mgr.
 F. W. Meyer
 M. H. Bonebrake, Mgr.

 S. L. Patterson, Mgr.

 G. V. Wilson, Mgr.
 F. C. Clarke, Ch. Eng.
 Tom Spellman, Ch. Eng.
 W. R. Nichols, Ch. Eng.
 Wayne Boothe, Annc'r.

 Geo. H. Thomas, Mgr.
 M. M. Marget, Mgr.

 Randall Jessee, Mgr.
 R. L. Rose, Mgr.
 Harry R. Spence, Mgr.
 Col. Eduardo Perez F.
 R. V. DeGruy, Mgr.
 Louis G. Baltimore
 Norman H. Blake, Ch. Eng.

 E. Hayes, Ch. Eng.
 Paul W. Holton, Eng.

 Albert Zink, Mgr.
 Roy Host, Ch. Eng.
 Kirk Knight, Prog. Dir.
 Roy Thompson, Eng.
 F. S. Loeb, Mgr.

 J. Samuel Brody
 A. Lynne Brannen
 Edward Bishop, Gen. Mgr.
 Jack Hudson, Ch. Eng.
 Julius Geise, Ch. Eng.

 Powell Hunter, Ch. Eng.
 John R. Pepper

WLBC	...	250
WLBj	...	250
WLNH	M	250
WMBO	...	250
WMFF	B	250
WNBH	MX	100(.25)
WRAW	N	250
WROL	NXZ	250
WSAJ	G3	100
WSAV	N	250
WSGN	BEM	250
WSJS	MN	250
WSOY	...	250
WSTV	GP3	250
WTAL	...	100(.25)
WTEL	...	100
WTJS	XZ	250
WTRC	...	250
XEAG	...	250
XEFW	...	300
XETB	...	500
XEX	...	500
....	P	250

1320 kcs. (227.1 m.)

CMHQ	...	200
KGHF	B	500
KGM BCMZX		1000
KID	...	500(1)
KRNT	CX	1000(5)
WADC	C	5000
WORK	N	1000
WSMB	R	5000

1330 kcs. (225.4 m.)

CMJL	...	200
KGB	M	1 000
KMO	M	1000
KRIS	N	500
KSCJ	NX	1000(5)
WDRC	C	5000
WSAI	MX	1000(5)
WTAQ	CX	1000(5)
XEBO	...	1000

1340 kcs. (223.7 m.)

KDTH	P	1000
KFRO	...	1000
KGIR	EN	5000
KGNO	...	250(1)
WCOA	N	500(1)
WFEA	MN	500(1)
WFNC	D	250
WSPD	R	5000
WPAB	...	1000
XEAP	...	50
XEBJ	...	100
XEBS	...	200
XEBW	...	250
XEDH	...	200
XEFC	...	100
XELW	...	250

1350 kcs. (222.1 m.)

CMC	...	200
CMCA	...	200
CMKB	...	200
KIDO	N	1000(.25)
KBWD	P	500
KTSM	N	500
KWK	BM	1000(5)
WAWZ	2	1000
WBNX	2	5000
WMBG	R	1000(5)
....	P	500

1360 kcs. (220.4 m.)

CMJH	...	200
------	-----	-----

a	Muncie, Ind.
a	Bowling Green, Ky.
a	Laconia, N. H.
a	Auburn, N. Y.
a	Plattsburg, N. Y.
a	New Bedford, Mass.
a	Reading, Pa.
a	Knoxville, Tenn.
a	Grove City, Pa.
a	Savannah, Ga.
a	Birmingham, Ala.
a	Winston-Salem, N. C.
a	Decatur, Ill.
z	Steubenville, Ohio
z	Tallahassee, Fla.
a	Philadelphia, Pa.
a	Jackson, Tenn.
a	Elkhart, Ind.
z	Cordoba, Ver. C.
a	Tampico, Tam.
a	Torreón, Coah.
z	Monterrey, N. L.
z	Washington, D. C.

z	Canta Clara, Cuba
a	Pueblo, Colo.
a	Honolulu, Hawaii
a	Idaho Falls, Idaho
a	Des Moines, Iowa
a	Tallmadge, Ohio
a	York, Pa.
a	New Orleans, La.

z	Nuevitas, Cuba
a	San Diego, Calif.
a	Tacoma, Wash.
a	Corpus Christi, Tex.
a	Sioux City, Iowa
g	Hartford, Conn.
a	Cincinnati, Ohio
a	Green Bay, Wis.
a	Irapuato, Gto.

z	Dubuque, Iowa
z	Longview, Tex.
z	Butte, Mont.
b	Dodge City, Kans.
a	Pensacola, Fla.
a	Manchester, N. H.
a	Fayetteville, N. C.
a	Toledo, Ohio
a	Ponce, Puerto Rico
z	Obregon, Son.
z	Victoria, Tam.
z	Mexico City, D. F.
z	Chihuahua, Chih.
z	Villa Acuna, Coah.
z	Merida, Yuc.
z	Guadalaajara, Jal.

a	Havana, Cuba
z	Havana, Cuba
z	Puerto Padre, Cuba
a	Boise, Idaho
z	Brownwood, Texas
a	El Paso, Tex.
a	St. Louis, Mo.
a	Zarephath, N. J.
a	New York, N. Y.
a	Richmond, Va.
z	Brownwood, Tex.

d	Ciego de Avila, Cuba
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Donald A. Burton

Kenneth Taylor, Ch. Eng.
Herbert House, Ch. Eng.
John Nazak, Ch. Eng.
I. Vermilya
M. Leonard Savage
L. Strunk
Herbert Harmon, Mgr.

Phil Hedrick

Richard Kingston, Prog. Dir.

B. C. Rummell, Ch. Eng.
R. R. Baker, Mgr.
Diodoro Zuniga

Aurelio G. Zaragoza

J. H. McGill, Pub. Dir.
Webley Edwards, Mgr.
Jack Duckworth, Mgr.
Edmund Linehan, Prog. Dir.
Robert Wilson
J. E. Mathiot, Ch. Eng.
H. G. Nebe, Ch. Eng.

David R. Young, Prog. Dir.
Carl E. Haymond
T. Frank Smith, Mgr.
C. W. Corkhill, Mgr.
Italo Martino, Ch. Eng.
Bill Bailey, Pub. Dir.

Alfonso Martinez

Harold C. Johnson, Mgr.
E. B. Craney, Mgr.
N. C. Peterson, Mgr.

Emilio Manzanilla
Fernando Elizalde
Maria Remedios Delgado

Vincente Hernandez
Julio Molina Font

J. M. Gonzalez, Dir.

C. G. Phillips, Mgr.

Karl O. Wyler, Mgr.
Clarence Cosby, Mgr.

Wifred H. Wood
Brown County Brdcastg. Co.

Luis Marauri H.

KCRC	EM	250	a	Enid, Okla.	Wm. Butterfield, Annc'r.
KGFR	...	1000	a	Long Beach, Calif.	Jay Tapp, Ch. Eng.
KLPM	...	1000	a	Minot, N. Dak.	Richard Schmidt, Mgr.
KSLM	M	1000	a	Salem, Ore.	Clyde Wiegand, Ch. Eng.
WCSC	C	500 (1)	a	Charleston, S. C.	J. M. Weaver, Ch. Eng.
WFBL	CX	1000 (5)	a	Syracuse, N. Y.	M. Wilcox
WGES	Z	500 (1)	a	Chicago, Ill.	.....
WQBC	D	1000	a	Vicksburg, Miss.	.....
WSBT	C2Z	500	a	South Bend, Ind.	.....

1370 kcs. (218.8 m.)



CFAR	...	100	a	Flin Flon, Man.	.....
CFOS	...	100	z	Owen Sound, Ont.	.....
CJOC	F	100	a	Lethbridge, Alta.	.....
CKCW	F	100	a	Moncton, N. B.	.....
CKRN	...	250	z	Rouyn, P. Q.	J. O. Tardif, Mgr.
CMGE	...	200	a	Cardenas, Cuba	Genero Sebater
HIZ	...	75	z	Trujillo, D. R.	Frank Hatton
KELD	...	250	z	El Dorado, Ark.	F. E. Bolls
KENO	P	250	z	Las Vegas, Nev.	.....
KEVR	3	100	a	Seattle, Wash.	Arthur Dailey, Mgr.
KFGO	D	100	a	poone Iowa	.....
KFPW	...	250	a	Fort Smith, Ark.	.....
KFVS	...	250	a	Cape Girardeau, Mo.	.....
KGFL	4	100	a	Roswell, N. Mex.	E. Whitmore, Mgr.
KGFL	...	100	a	San Angelo, Texas	Earle Yates, Mgr.
KICA	...	100	a	Clovis, N. Mex.	Chas. C. Alsup, Mgr.
KIUN	...	100	a	Pecos, Texas	Jack Hawkins, Mgr.
KIUP	...	250	a	Durango, Colo.	Ray Beckner, Mgr.
KLUF	...	250	a	Galveston, Tex.	Lawrence Yates, Mgr.
KMAC	5	250	a	San Antonio, Tex.	Howard Davis, Mgr.
KOBH	...	250	a	Rapid City, S. Dak.	Robert Dean, Mgr.
KOH	NXZ	500	a	Reno, Nev.	Merle Snider
KOKO	...	100	a	La Junta, Colo.	Leonard Wilson
KONO	5	250	a	San Antonio, Tex.	ugene Roth, Mgr.
KORN	...	250	a	Fremont, Nebr.	.....
KRE	...	250	a	Berkeley, Calif.	Arthur Westlund, Mgr.
KRKO	3X	30	a	Everett, Wash.	Lee Mudgett
KRMC	...	250	a	Jamestown, N. Dak.	Frank Gillespie Prog. Dept.
KTEM	M	250	a	Temple, Texas	Burton Bishop, Mgr.
KTKO	EMN	250	a	Oklahoma City, Okla.	Joseph Lee, Mgr.
KTSW	M	250	a	Emporia, Kans.	K. W. Trimble, Gen. Mgr
KTUC	CE	250	a	Tucson, Ariz.	Frank Howe, Mgr.
KUJ	XZ	100	a	Walla Walla, Wash.	H. E. Studebaker, Mgr.
KVFD	G	250	a	Fort Dodge, Iowa	.....
KVGB	...	250	a	Great Bend, Kans.	.....
KVRS	...	250	a	Rock Springs, Wyo.	Ken Nielson, Mgr.
KWLK	...	250	a	Longview, Wash.	.....
KWYO	...	250	a	Sheridan, Wyo.	H. W. Siebert, Mgr.
KYAN	P	250	z	Cheyenne, Wyo.	.....
WABY	BM	100 (.25)	a	Albany, N. Y.	Harold Smith, Mgr.
WAGF	D	250	a	Dothan, Ala.	Julian Smith, Mgr.
WARM	...	250	a	Scranton, Pa.	.....
WATL	M	250	a	Atlanta, Ga.	.....
WATW	...	100	a	Ashland, Wis.	.....
WBLK	N	250	a	Clarksburg, W. Va.	.....
WBNY	Z	250	a	Buffalo, N. Y.	Roy Albertson
WBTH	...	250	z	Williamson, W. Va.	.....
WBTM	...	100 (.25)	a	Danville, Va.	.....
WCBI	...	250	a	Columbus, Miss.	Birney Imes
WCBM	...	250	a	Baltimore, Md.	.....
WCNC	...	250	z	Elizabeth City, N. C.	Lewis Hilland, Ch. Eng.
WCOS	...	250	a	Columbia, S. C.	.....
WDAS	...	250	a	Philadelphia, Pa.	Harold Davis, Prog. Dir.
WDEF	P	250	z	Chattanooga, Tenn.	.....
WDWS	...	250	a	Champaign, Ill.	.....
WEOA	C	250	a	Evansville, Ind.	.....
WFOR	...	100	a	Hattiesburg, Miss.	.....
WFTL	...	250	a	Ft. Lauderdale, Fla.	Tom M. Bryan
WGBR	...	250	a	Goldsboro, N. C.	.....
WGL	N	250	a	Fort Wayne, Ind.	.....
WGRC	M	250	a	New Albany, Ind.	Jack Gardner, Ch. Eng.
WHBQ	...	100	a	Memphis, Tenn.	.....
WHDF	...	250	a	Calumet, Mich.	.....
WHKY	...	250	a	Hickory, N. C.	.....
WHLB	C	250	a	Virginia, Minn.	Vernon Baumgartner
WHLS	...	250	a	Port Huron, Mich.	Angus Pfaff, Mgr.
WHUB	...	250	a	Cookeville, Tenn.	M. L. Medley
WHYN	P	250	z	Holyoke, Mass.	Hampden-Hampshire Corp.

WIBM	B	250
WISE	N	250
WJAC	R	250
WJHO	...	100 (.25)
WKPT	N	250
WLLH	Sx	100-100
WLLH	MS	250
WMAN	...	250
WMBR	C	250
WMFD	...	100 (.25)
WMGA	...	250
WMIN	...	250
WMSL	E	250
WOC	C	250
WORD	C	250
WPAY	X	100
WRAK	...	250
WRDO	MN	100
WRJN	...	250
WSAU	...	250
WSLB	...	250
WSVS	G2	50
WTCM	P	250
WTSP	...	250
XECZ	...	100
XEI	...	125
XELZ	...	100

a	Jackson, Mich.
z	Asheville, N. C.
a	Johnstown, Pa.
a	Opelika, Ala.
a	Kingsport, Tenn.
a	Lawrence, Mass.
a	Lowell, Mass.
a	Mansfield, Ohio
a	Jacksonville, Fla.
a	Wilmington, N. C.
z	Moultrie, Ga.
a	St. Paul, Minn.
a	Decatur, Ala.
a	Davenport, Iowa
a	Spartanburg, S. C.
a	Portsmouth, Ohio
a	Williamsport, Pa.
a	Augusta, Maine
a	Racine, Wis.
a	Wausau, Wis.
a	Ogdensburg, N. Y.
z	Buffalo, N. Y.
z	Traverse City, Mich.
z	St. Peterburg, Fla.
z	San Luis Potosi, S. L. P.
a	Morelia, Micho.
z	Mexico City, D. F.

W. H. Dunn, Prog. Dir.
 Harold H. Thomas

Robert Donahue

 Robert Wilds, Ch. Eng.

 H. B. Greene, Ch. Eng.
 Richard Dunlea
 Frank R. Pidcock

 Allen R. Richter

 Maurice L. Myers

 J. Mitchell

 H. C. Bieda

 Zeferino Z. Jimenez
 Carlos Gutierrez
 Maria Gardena de Zetina

1380 kcs. (217.3 m.)



KERN	BE	1000
KQV	...	1000
WALA	CX	500 (1)
WING	NX	250 (.5)
WKBH	C	1000
WNBC	B	1000

a	Bakersfield, Calif.
a	Pittsburgh, Pa.
a	Mobile, Ala.
a	Dayton, Ohio
a	La Crosse, Wis.
a	New Britain, Conn.

Robert Stoddard, Mgr.
 J. J. Laux, Mgr.
 W. O. Pape, Mgr.
 M. S. Gilkerson, Ass't. Eng.

 Rogers B. Holt, Ch. Eng.

1390 kcs. (215.7 m.)



CMJC	...	200
KABR	X	500 (1)
KLRA	C	1000 (5)
KRLC	Z	250
WFCI	P	1000
WHK	KBMX	1000 (5)
WQDM	AD	1000
XEM	...	500

z	Camaguey, Cuba
a	Aberdeen, S. Dak.
a	Little Rock, Ark.
a	Lewiston, Idaho
z	Pawtucket, R. I.
a	Cleveland, Ohio
f	St. Albans, Vt.
z	Chihuahua, Chih.

Miguel Guillen Perez
 W. L. Dean, Prog. Dir.
 S. C. Vinsonhaler, Mgr.
 Donald H. Wike, Mgr.

 E. L. Gove, Tech. Sup.

1400 kcs. (214.2 m.)



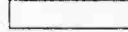
CMAR	...	200
CMKR	...	200
KLO	BEM	5000
KTUL	C	5000
TGX	...	...
WARD	2	500
WBBC	2	500
WIRE	MR	5000
WLTH	2	500
WVFW	2	500
XEA	...	250
XEAJ	...	100
XEAU	A	250
XEDE	...	100
XEDS	...	250
XEPP	...	150

z	Pinar del Rio, Cuba
z	Santiago de Cuba
a	Ogden, Utah
a	Tulsa, Okla.
d	Guatemala City, Guat.
a	Brooklyn, N. Y.
a	Brooklyn, N. Y.
a	Indianapolis, Ind.
a	New York, N. Y.
a	Brooklyn, N. Y.
z	Campeche, Cam.
z	Navoioa, Son.
z	Tijuana, B. Cfa.
z	Torreón, Coah.
z	Mazatan, Sin.
z	Orizaba, Ver. Ca.

....
 Jaime Nadal
 Paul R. Heitmeayer
 W. C. Gillespie

 Aron Kronenberg
 Bert Child, Prog. Dir.
 Earl Lewis, Ch. Eng.

1410 kcs. (212.5 m.)



CKFC	2	50
CKMO	2	100
CMBY	...	200
CMCQ	...	200
KFJM	...	500 (1)
KGNC	N	1000 (2.5)
KMED	N	1000
WAAB	EM	1000
WBCM	...	500 (1)

a	Vancouver, B. C.
a	Vancouver, B. C.
a	Havana, Cuba
a	Havana, Cuba
a	Grand Forks, N. Dak.
a	Amarillo, Texas
b	Medford, Ore.
a	Boston, Mass.
a	Bay City, Mich.

....
 Pedro Marti, Ch. Eng.
 Andres Martinez
 Dalton Le Masurier, Mgr.
 O. L. Taylor, Mgr.
 Mrs. W. J. Virgin
 E. A. Donaher

1420 kcs. (211.1 m.)



WHIS ... 500(1)
 WROK M 500(1)
 WSFA CE 500(1)
 CBY F 100
 CHLN ... 100
 CHNB ... P 100
 CKCA F 100(.25)
 CKLN F 100
 CMJP ... 200
 KABC M 250
 KATE E 250
 KBPS 4 100
 KCMC M 250
 KDNT 100
 KEUB EM 250
 KFAM EN 250
 KFBC P 100(.25)
 KFIZ E 100
 KFMB P 250
 KFUN P 250
 KGFF EM 250
 KGIW 3 100
 KGLU EN 250
 KIDW 3 100
 KLBM ... 250
 KMYC ... 100
 KORE M 250
 KRBC M 250
 KRBM EN 250
 KRIC ... 250
 KRLH ... 100
 KSAN ... 250
 KTRI ... 250
 KVAK ... 100
 KWAL ... 250
 KWBG X 100
 KXL 4 250
 WACO CM 250
 WAGM ... 100
 WAQV P 100
 WAPO NXZ 250
 WAZL M 250
 WBML P 250
 WCB5 N 250
 WCHV ... 250
 WEED ... 250
 WELL BX 100
 WFMJ ... 250
 WFPG ... 100(.25)
 WGNC ... 250
 WGOV ... 250
 WGPC X 100
 WHDL ... 250
 WHFC ... 250
 WHMA ... 250
 WILM ... 250
 WIMS ... 250
 WKIP ... 250
 WLPAP M 250
 WLEU B 250
 WLFM ... 250
 WMAS ... 250
 WMBC ... 250
 WMBH ... 250
 WMBS XZ 250
 WMFJ N 250
 WMSD X 250
 WMVA P 100(.25)
 WMWH P 250
 WNAB P 250
 WNOE ... 250
 WPAD ... 250
 WPAR CX 100

a Bluefield, W. Va.
 a Rockford, Ill.
 a Montgomery, Ala.
 a Toronto, Ont.
 z Three Rivers, P. O.
 z North Battleford, Sask.
 a Kenora, Ont.
 a Nelson, B. C.
 a Moron, Cuba
 a San Antonio, Texas
 a Albert Lea, Minn.
 a Portland, Ore.
 a Texarkana, Texas
 a Denton, Texas
 a Price, Utah
 a St. Cloud, Minn.
 z Cheyenne, Wyo.
 a Fond du Lac, Wis.
 z San Diego, Calif.
 z Las Vegas, Nev.
 a Shawnee, Okla.
 a Alamosa, Colo.
 a Safford, Ariz.
 a Lamar, Colo.
 z La Grande, Ore.
 a Marysville, Calif.
 a Eugene, Ore.
 a Abilene, Texas
 a Bozeman, Mont.
 z Beaumont, Texas
 a Midland, Texas
 a San Francisco, Calif.
 f Sioux City, Iowa
 a Atchison, Kans.
 a Wallace, Idaho
 a Hutchinson, Kans.
 b Portland, Ore.
 b Waco, Texas
 a Presque Isle, Maine
 z Vincennes, Ind.
 a Chattanooga, Tenn.
 a Hazleton, Pa.
 z Macon, La.
 a Springfield, Ill.
 a Charlottesville, Va.
 a Rocky Mount, N. C.
 a Battle Creek, Mich.
 a Youngstown, Ohio
 a Atlantic City, N. J.
 z Gastonia, N. C.
 a Valdosta, Ga.
 a Albany, Ga.
 a Olean, N. Y.
 a Cicero, Ill.
 a Anniston, Ala.
 a Wilmington, Del.
 a Ironwood, Mich.
 a Poughkeepsie, N. Y.
 a Lexington, Ky.
 a Erie, Pa.
 a Suffolk, Va.
 a Springfield, Mass.
 a Detroit, Mich.
 a Joplin, Mo.
 a Uniontown, Pa.
 a Daytona Beach, Fla.
 a Muscle Shoals City, Ala.
 z Martinsville, Va.
 z Augusta, Ga.
 z Bridgeport, Conn.
 a New Orleans, La.
 a Paducah, Ky.
 a Parkersburg, W. Va.

Edw. L. Ketts

 Leon Trepanier, Ch. Eng.

 Hume Lethbridge, Mgr.
 Cesar Canals
 Chas. Belfi, Prog. Dir.
 Geo. Russell, Prog. Dir.
 Wm. Allingham, Mgr.
 W. T. Casper, Prog. Dir.
 Jack Wallace, Prog. Dir.
 Sam G. Weiss
 Geo. Bairey, Mgr.
 Lynn B. Fairbanks, Mgr.
 Las Vegas Brcdstg. Co., Inc.
 Ross Porter, Mgr.
 E. L. Allen
 Sherrill Ellsworth, Mgr.
 Paul E. Walden, Ch. Eng.
 Leon Stauffer, Ch. Eng.
 Frank Hill, Mgr.
 Max Bentley, Mgr.

 Thomas Belzel, Mgr.
 S. H. Paterson, Mgr.
 Dietrich Dirks, Mgr.

 C. Howarth and C. Berger
 W. B. Greenwald, Mgr.
 T. W. Symons, Jr. Mgr.
 James W. Pate, Mgr.
 R. W. MacIntosh Mgr.
 Howard N. Greenlee, Mgr.
 R. G. Patterson, Mgr.
 Edward Beisel, Prog. Dir.

 R. L. Ashenfelter, Ch. Eng.
 Wm. Avera Wynne

 Gov. E. D. Rivers
 F. C. Todd, Mgr.

 Edwin Mullinax

 Winston L. Clark, Mgr.
 Jack Siegel
 E. H. Clark, Ch. Eng.

 Chas. McClane, Eng.
 W. Wright Esch

 W. Montgomery Harison

1430 kcs. (209.7 m.)



CJGX F 1000
 CMKZ ... 200

a Yorkton, Sask.
 z Palma Soriano, Cuba

A. L. Garside, Mgr.
 Joaquin Venero Obregon

KGNF D 1000
 WPRP XZ 250
 WSLI ... 250
 WSPB ... 250
 WWDC P 250
 KINY 1000
 KSO BM 1000(5)
 WBNS C 1000(5)
 WHEC C 500(1)
 WHP C 1000(5)
 WMPS B 500(1)
 WOKO CK 500(1)
 XERH ... 500

a North Platts, Nebr.
 a Ponce, Puerto Rico
 a Jackson, Miss.
 a Sarasota, Fla.
 z Washington, D. C.
 z Juneau, Alaska
 c Des Moines, Iowa
 a Columbus, Ohio
 a Rochester, N. Y.
 a Harrisburg, Pa.
 a Memphis, Tenn.
 a Albany, N. Y.
 z Mexico City, D. F.

J. B. Eaves, Eng.
 Julio M. Conesa
 G. G. Benson, Ch. Eng.

Capital Brdcastg. Co.
 C. B. Arnold, Mgr.
 Edmund Linehan, Prog. Dir.

R. S. Duncan, Ch. Eng.

H. E. Smith

1440 kcs. (208.2 m.)

CKGB F 1000
 KDFN X 500
 KELA M 1000
 KXYZ BM 1000
 WBIG C 1000(5)
 WCBA a 500
 WMBD C 1000(5)
 WSAN aN 500
 XEFI ... 1000

a Timmins, Ont.
 a Casper, Wyo.
 a Centralia, Wash.
 a Houston, Texas
 a Greensboro, N. C.
 a Allentown, Pa.
 a Peoria, Ill.
 a Allentown, Pa.
 a Chihuahua, Chih.

R. H. Thomson

J. Elroy McCaw, Mgr.
 T. Frank Smith, Mgr.
 Edney Ridge

F. A. Giles, Tech. Dir.
 Geo. G. Snyder Prog. Dir.
 Feliciano Lopez Islas

1450 kcs. (206.8 m.)

CFCT ... 500
 CHGS F 50
 CMHM ... 200
 HRN ... 500
 KCMO ... 1000(5)
 KGCS ... 1000
 KIEM M 500(1)
 KTBS NZ 1000
 TGO ... 200
 WAGA B 500(1)
 WGAR C 1000(5)
 WHOM ... 500(1)
 WSRM M 1000
 XEDJ ... 100
 XFF ... 100
 XERK ... 100
 XEY ... 250

a Victoria, B. C.
 f Summerside, P. E. I.
 z Cienfuegos, Cuba
 b Tegucigalpa, Hond.
 a Kansas City, Mo.
 a Wolf Point, Mont.
 a Eureka, Calif.
 a Shreveport, La.
 a Quezaltenango, Guat.
 a Atlanta, Ga.
 a Cleveland, Ohio
 a Jersey City, N. J.
 f Fall River, Mass.
 z Magdalena, Son.
 s Juarez, Chih.
 z Tepic, Nayar.
 z San Luis Rio Colonia,

R. T. Holman
 Jose R. Feminias

Lee Roberts, Prog. Dir.
 Milton J. Severson, Mgr.
 Wm. B. Smullin Mgr.
 John McCormack, Mgr.

Jess Swicegood
 R. M. Pierce, Ch. Eng.
 N. J. Brdcastg. Corp.

Gilberto Gil

Son.

1460 kcs. (205.4 m.)

CMKF ... 250
 KSTP R 50000
 WJSV C 50000

z Holguin, Cuba
 z St. Paul, Minn.
 a Washington, D. C.

Manuel J. De Gongora
 Stanley Hubbard, Mgr.
 Harry R. Crow; Clyde Hunt

1470 kcs. (204 m.)

CMCX ... 200
 HIBQ 1475 100
 KGA BM 5000
 WLAC 5000
 WMEX ... 5000

z Havana, Cuba
 z Trujillo, D. R.
 a Spokane, Wash.
 a Nashville, Tenn.
 a Boston, Mass.

L. Sanchez
 Julio A. Garcia
 A. L. Smith, Mgr.
 J. T. Ward
 The Northern Corp.

1480 kcs. (202.6 m.)

CMHX ... 200
 KOMA C 5000
 WHIP D 5000
 WKBW CM 5000

a Cienfuegos, Cuba
 a Oklahoma City, Okla.
 z Hammond, Ind.
 a Buffalo, N. Y.

J. Garcia R.
 Raymond Ramsey
 Elmer Herkner

1490 kcs. (201.2 m.)

CMKQ E 1000
 KFBK BE 10000
 WCKY C 50000
 XECH ... 250
 XEDR ... 100
 XEJR ... 100

z Santiago de Cuba
 a Sacramento, Calif.
 a Cincinnati, Ohio
 z Toluca, Mex.
 z Guaymas, Son.
 z Parral, Chih.

Mario Abril Dumois
 Marjorie Jamison
 C. H. Topmiller, Ch. Eng.

Modeste Ortega

1500 kcs. (199.9 m.)

CJIC F 100
 KAWM ... 100

a Sault Ste. Marie, Ont.
 a Gallup, N. Mex.

J. C. Whitby
 A. W. Mills

KBIX	EM	100	a	Muskogee, Okla.	J. H. Speck, Mgr.
KBKR	...	250	a	Baker, Ore.	Louis P. Thornton
KBST	M	100	a	Big Spring, Texas	Mary V. Keneaster, Prog. Dir.
KDAL	C	250	a	Duluth, Minn.	Gilbert Fawcett, Prog. Dir.
KDB	EM	250	a	Santa Barbara, Calif.	Earl Pollock, Mgr.
KDRO	...	100(.25)	z	Sedalia, Mo.	.....
KEYS	P	250	z	Corpus Christi, Texas	.....
KGKY	...	250	a	Scottsbluff, Nebr.	.....
KNEL	D	250	a	Brady, Texas	G. L. Burns
KNOW	M	250	a	Austin, Texas	.....
KOTN	...	250	a	Pine Bluff, Ark.	B. J. Parrish, Mgr.
KOVC	...	250	a	Valley City, N. Dak.	Mark C. Crandall, Mgr.
KPAB	...	250	a	Laredo, Texas	Mervel M. Valentine
KPLC	...	250	a	Lake Charles, La.	C. R. Porter, Mgr.
KPLT	...	250	a	Paris, Texas	J. Bert Mitchell, Mgr.
KPO	M	250	a	Wenatchee, Wash.	Cole E. Wylie, Mgr.
KRNR	M	100(.25)	a	Roseburg, Ore.	Justin B. Toles, Mgr.
KROD	...	250	a	El Paso, Texas	Dorrence D. Roderick
KTOH	...	250	a	Lihue, Hawaii	C. J. Fern, Jr.
KUTA	N	250	a	Salt Lake City, Utah	Frank C. Carman, Mgr.
KVOE	M	250	a	Santa Ana, Calif.	Ernest L. Spencer, Mgr.
KVWC	...	250	z	Vernon, Texas	Mrs. C. C. Minyard, Sec'y.
KWEW	...	100	a	Hobbs, N. Mex.	W. E. Whitmore
KXO	M	100	a	El Centro, Calif.	F. M. Bowles, Mgr.
KYCA	E	250		Prescott, Ariz.	.....
KYSM	EN	250	a	Mankato, Minn.	H. Kimberly, Ch. Eng.
WBOC	...	250	a	Salisbury, Md.	Peninsula Brcdstg. Co.
WCNW	2	100(.25)	a	Brooklyn, N. Y.	Arthur Faske
WDAN	...	250	a	Danville, Ill.	Perry W. Esten, Ch. Eng.
WDNC	C	250	a	Durham, N. C.	.....
WERC	P	100(.25)	z	Erie, Pa.	.....
WGAL	MN	250	a	Lancaster, Pa.	Ernest Stanbiola
WGIL	...	250	a	Galesburg, Ill.	Paul Kalbfleisch
WGKV	N	100	z	Charleston, W. Va.	.....
WGTC	...	250	a	Greenville, N. C.	.....
WHBB	...	100	a	Selma, Ala.	.....
WJBK	...	250	a	Detroit, Mich.	Winifred Powers
WKAT	XZ	250	a	Miami Beach, Fla.	Arthur P. Smith, Ch. Eng.
WKBB	N	250	a	Dubuque, Iowa	L. Carlson
WKBV	...	100(.25)	a	Richmond, Ind.	.....
WKBZ	...	250	a	Muskegon, Mich.	.....
WKEU	D	100	a	Griffin, Ga.	.....
WKNY	...	250	a	Kingston, N. Y.	John R. McKenna
WMLM	...	100(.25)	a	Cordale, Ga.	Cordale Dispatch Pub. Co.
WMOG	...	100(.25)	a	Brunswick, Ga.	.....
WMRC	...	250	a	Greenville, S. C.	Textile Brcdstg. Co.
WMRN	P	250	z	Marion, Ohio	.....
WNBF	C	250	a	Binghamton, N. Y.	.....
WNLC	M	250	a	New London, Conn.	Gerald J. Morey
WOLF	...	250	a	Syracuse, N. Y.	.....
WOMI	...	250	a	Owensboro, Ky.	.....
WOPI	...	250	a	Bristol, Tenn.	.....
WRDW	C	250	a	Augusta, Ga.	.....
WRGA	...	250	a	Rome, Ga.	.....
WSLS	...	250	a	Roanoke, Va.	.....
WSTP	M	250	a	Salisbury, N. C.	James R. Yost, Ch. Eng.
WSYB	M	250	a	Rutland, Vt.	.....
WTMC	...	100	z	Ocala, Fla.	.....
WTMV	...	250	a	E. St. Louis, Ill.	F. S. Liggett, Ch. Eng.
WWRL	G2	250	a	Woodside, N. Y.	.....
WWSW	...	250	a	Pittsburgh, Pa.	.....
XEQK	...	400	z	Mexico City, D. F.	.....
...	P	250	z	Batavia, N. Y.	Batavia Brcdstg. Corp.
....	P	250	z	Corpus Christi, Tex.	Nueces Brcdstg. Corp.

1510 kcs. (198.6 m.)



CFRC	F	100
CKCR	...	100
CMCW	...	200
CMOX	...	200

a	Kingston, Ont.
a	Waterloo, Ont.
d	Havana, Cuba
a	Havana, Cuba

H. H. Stewart, Ch. Eng.
G. Liddle
A. Puente, Dir.

1520 kcs. (197.3 m.)



TGW	...	5000
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e	Guatemala City, Guat.
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L. Schlesinger Carrera, Dir.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency is given in kilocycles in second column. For power and network affiliations, refer to the list of North American stations by Frequencies.

<p>ALABAMA</p> <p>Anniston WHMA 1420</p> <p>Birmingham WAPI 1140 WBRC 980 WSGN 1810</p> <p>Decatur WMSL 1370</p> <p>Dothan WAGF 1870</p> <p>Gadsden WJBY 1210</p> <p>Huntsville WBHP 1200</p> <p>Mobile WALA 1880 WMOB 1200</p> <p>Montgomery WCOY 1210 WFSA 1410</p> <p>Opelika WJHO 1370</p> <p>Seima WHBB 1500</p> <p>Muscle Shoals City WMSD 1420</p> <p>Tuscaloosa WJRD 1200</p>	<p>El Dorado KELD 1370</p> <p>Fort Smith KF1W 1370</p> <p>Hot Springs KTHS 1060</p> <p>KWFC 1810</p> <p>Jonesboro KBTM 1200</p> <p>Little Rock KARK 890 KQHI 1200 KLRK 1390</p> <p>Pine Bluff KOTN 1500</p> <p>Siloam Springs KUOA 1360</p>	<p>San Bernardino KFXM 1210</p> <p>San Diego KFSD 600 KGB 1330</p> <p>San Francisco KFRG 610 KGO 790 KJBS 1070 KPO 680 KSAN 1420 KSFO 660 KYA 1230</p> <p>San Jose KQW 1010</p> <p>San Luis Obispo KVEC 1200</p> <p>Santa Ana KVOE 1500</p> <p>Santa Barbara KRD 1500 KTMS 1220</p> <p>Santa Rosa KSRO 1310</p> <p>Stockton KGDH 1100 KWG 1200</p> <p>Visalia KTKC 890</p> <p>Watsonville KHUB 1310</p>	<p>New London WNLC 1500</p> <p>Waterbury WATR 1290 WBBY 1530</p>	<p>Atlanta WAGA 1450 WATL 1370 WAHI 1080 WGST 890 WSB 740</p> <p>Augusta WGAI 1210 WAVH 1420 WRDW 1500</p> <p>Brunswick WMOG 1500</p> <p>Columbus WRBL 1200</p> <p>Cordale WJMJ 1500</p> <p>Dalton WLLA 1200</p> <p>Gainesville WGGA 1210</p> <p>Griffin WKEU 1500</p> <p>Macon WHML 1430 WMAZ 1180</p> <p>Moultrie WMGA 1370</p> <p>Rome WIGA 1500</p> <p>Savannah WSAV 1310</p> <p>WTCO 1260</p> <p>Thomasville WPAZ 1210</p> <p>Valdosta WGOV 1420</p> <p>Waycross WAYX 1200</p> <p>West Point WDAK 1310</p>
<p>ALASKA</p> <p>Anchorage KFQD 780</p> <p>Fairbanks KFAR 610</p> <p>Juneau KINY 1430</p> <p>Ketchikan KGBU 900</p>	<p>CALIFORNIA</p> <p>Bakersfield KEBN 1380 KPMC 1550</p> <p>Berkeley KRE 1870</p> <p>Beverly Hills KMPC 710</p> <p>Chicago KHSL 1260</p> <p>El Centro KXO 1500</p> <p>Eureka KIEM 1450</p> <p>Fresno KARM 1810 KMY 580</p> <p>Glendale KIEV 850</p> <p>Long Beach KFOX 1250 KGER 1360</p> <p>Los Angeles KECA 780 KFAC 1300 KFI 640 KFSG 1130 KFVD 1000 KFWB 950 KGFJ 1200 KHJ 900 KMTR 870 KNX 1050 KRKD 1120</p> <p>Marysville KMYC 1420</p> <p>Mered KYOS 1040</p> <p>Modesto KTRB 740</p> <p>Monterey KDON 1210</p> <p>Oakland KLS 1280 KLX 880 KROW 930</p> <p>Paradise KPPC 1210</p> <p>Redding KVCV 1200</p> <p>Sacramento KFBK 1490 KBOY 1310</p>	<p>COLORADO</p> <p>Alamosa KGIW 1420</p> <p>Colorado Springs KVOR 1270</p> <p>Denver KFEL 920 KLZ 560 KMYR 1310 KOA 820 KPOF 880 KVOD 630</p> <p>Durango KIUP 1370</p> <p>Grand Junction KXFP 1200</p> <p>Greeley KPKA 880</p> <p>La Junta KOKO 1370</p> <p>Lamar KIDW 1420</p> <p>Pueblo KGFH 1320</p> <p>Sterling KGEK 1200</p>	<p>FLORIDA</p> <p>Daytona Beach WMFJ 1420</p> <p>Ft. Lauderdale WFTL 1370</p> <p>Ft. Myers WFTM 1210</p> <p>Gainesville WRUF 850</p> <p>Jacksonville WJAX 900 WJHP 1290 WMRR 1370</p> <p>Lakeland WLAK 1310</p> <p>Miami WIOD 610</p> <p>Miami Beach WQAM 560</p> <p>Miami WKAT 1500</p> <p>Ocala WTMC 1500</p> <p>Orlando WDBO 580</p> <p>WLOF 1200</p> <p>Panama City WDLF 1200</p> <p>Pensacola WCOA 1340</p> <p>St. Augustine WFOY 1210</p> <p>St. Petersburg WSUN 820</p> <p>WTSP 1370</p> <p>Sarasoto WSPB 1420</p> <p>Tallahassee WTAL 1310</p> <p>Tampa WDAE 1220 WFLA 620 WKGA 940</p> <p>West Palm Beach WJNO 1200</p>	<p>HAWAII</p> <p>Hilo KHBC 1200</p> <p>Honolulu KGMB 1320 KGU 750</p> <p>Lihue KTOH 1508</p>
<p>ARIZONA</p> <p>Globe KWJB 1210</p> <p>Jerome KCRJ 1310</p> <p>Lowell KSUN 1200</p> <p>Phoenix KOY 550 KPHO 1200 KTAR 620</p> <p>Prescott KYCA 1500</p> <p>Safford KGLU 1420</p> <p>Tucson KTUC 1870 KVOA 1280</p> <p>Yuma KYUM 1210</p>	<p>CONNECTICUT</p> <p>Bridgeport WICC 600</p> <p>WNAH W Hartford</p> <p>WDRG 1350 WTIC 1040 WTHT 1200</p> <p>New Britain WNBC 1380</p> <p>New Haven WELI 930</p>	<p>GEORGIA</p> <p>Albany WALB 1230</p> <p>WGPC 1420</p> <p>Athens WGAI 1310</p>	<p>IDAHO</p> <p>Boise KIDO 1350</p> <p>Idaho Falls KID 1320</p> <p>Lewiston KLLC 1390</p> <p>Nampa KFXD 1200</p> <p>Pocatello KSEI 900</p> <p>Twin Falls KTFI 1240</p> <p>Wallace KWAL 1430</p>	
<p>ARKANSAS</p> <p>Blytheville KLGN 1290</p>	<p>ILLINOIS</p> <p>Aurora WMRO 1250</p> <p>Bloomington WJBC 1200</p> <p>Carthage WCAY 1070</p> <p>Champaign WDWS 1370</p>			

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<table border="0" style="width: 100%;"> <tr><td>Chicago</td><td></td></tr> <tr><td>WAAF</td><td>920</td></tr> <tr><td>WBBM</td><td>770</td></tr> <tr><td>WCBD</td><td>1080</td></tr> <tr><td>WCFL</td><td>970</td></tr> <tr><td>WCRW</td><td>1210</td></tr> <tr><td>WEDC</td><td>1210</td></tr> <tr><td>WENR</td><td>870</td></tr> <tr><td>WGES</td><td>1360</td></tr> <tr><td>WGN</td><td>720</td></tr> <tr><td>WJJD</td><td>1130</td></tr> <tr><td>WLS</td><td>870</td></tr> <tr><td>WMAQ</td><td>670</td></tr> <tr><td>WMBI</td><td>1080</td></tr> <tr><td>WBSB</td><td>1210</td></tr> <tr><td>Cleere</td><td></td></tr> <tr><td>WHFC</td><td>1420</td></tr> <tr><td>Danville</td><td></td></tr> <tr><td>WDAN</td><td>1500</td></tr> <tr><td>Deatur</td><td></td></tr> <tr><td>WSOY</td><td>1310</td></tr> <tr><td>East St. Louis</td><td></td></tr> <tr><td>WTMV</td><td>1500</td></tr> <tr><td>Galesburg</td><td></td></tr> <tr><td>WGIL</td><td>1500</td></tr> <tr><td>Harrisburg</td><td></td></tr> <tr><td>WBEQ</td><td>1210</td></tr> <tr><td>Herrin</td><td></td></tr> <tr><td>WJPF</td><td>1310</td></tr> <tr><td>Joliet</td><td></td></tr> <tr><td>WCLS</td><td>1310</td></tr> <tr><td>Peoria</td><td></td></tr> <tr><td>WMBD</td><td>1440</td></tr> <tr><td>Quincy</td><td></td></tr> <tr><td>WTAD</td><td>900</td></tr> <tr><td>Rockford</td><td></td></tr> <tr><td>WROK</td><td>1410</td></tr> <tr><td>Rock Island</td><td></td></tr> <tr><td>WHBF</td><td>1240</td></tr> <tr><td>Springfield</td><td></td></tr> <tr><td>WCBS</td><td>1420</td></tr> <tr><td>WTAX</td><td>1210</td></tr> <tr><td>Tuscola</td><td></td></tr> <tr><td>WDZ</td><td>1020</td></tr> <tr><td>Urbana</td><td></td></tr> <tr><td>WILL</td><td>580</td></tr> </table>	Chicago		WAAF	920	WBBM	770	WCBD	1080	WCFL	970	WCRW	1210	WEDC	1210	WENR	870	WGES	1360	WGN	720	WJJD	1130	WLS	870	WMAQ	670	WMBI	1080	WBSB	1210	Cleere		WHFC	1420	Danville		WDAN	1500	Deatur		WSOY	1310	East St. Louis		WTMV	1500	Galesburg		WGIL	1500	Harrisburg		WBEQ	1210	Herrin		WJPF	1310	Joliet		WCLS	1310	Peoria		WMBD	1440	Quincy		WTAD	900	Rockford		WROK	1410	Rock Island		WHBF	1240	Springfield		WCBS	1420	WTAX	1210	Tuscola		WDZ	1020	Urbana		WILL	580	<table border="0" style="width: 100%;"> <tr><td>WSBT</td><td>1360</td></tr> <tr><td>Terre Haute</td><td></td></tr> <tr><td>WBOV</td><td>1200</td></tr> <tr><td>Vincennes</td><td></td></tr> <tr><td>WAOV</td><td>1420</td></tr> <tr><td>West Lafayette</td><td></td></tr> <tr><td>WBAA</td><td>890</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">IOWA</td></tr> <tr><td>Ames</td><td></td></tr> <tr><td>WOI</td><td>640</td></tr> <tr><td>Boone</td><td></td></tr> <tr><td>KFGQ</td><td>1370</td></tr> <tr><td>Cedar Rapids</td><td></td></tr> <tr><td>WMT</td><td>600</td></tr> <tr><td>Davenport</td><td></td></tr> <tr><td>WOC</td><td>1370</td></tr> <tr><td>Decorah</td><td></td></tr> <tr><td>KWLC</td><td>1270</td></tr> <tr><td>Des Moines</td><td></td></tr> <tr><td>KRNT</td><td>1320</td></tr> <tr><td>KSO</td><td>1430</td></tr> <tr><td>WHO</td><td>1000</td></tr> <tr><td>Dubuque</td><td></td></tr> <tr><td>KDTH</td><td>1340</td></tr> <tr><td>WKBB</td><td>1500</td></tr> <tr><td>Fort Dodge</td><td></td></tr> <tr><td>KVFD</td><td>1370</td></tr> <tr><td>Iowa City</td><td></td></tr> <tr><td>WSUI</td><td>850</td></tr> <tr><td>Marshalltown</td><td></td></tr> <tr><td>KFJB</td><td>1200</td></tr> <tr><td>Mason City</td><td></td></tr> <tr><td>KGLO</td><td>1210</td></tr> <tr><td>OTTUMWA</td><td></td></tr> <tr><td>KHIZ</td><td>1210</td></tr> <tr><td>Shonandoah</td><td></td></tr> <tr><td>KFNF</td><td>890</td></tr> <tr><td>KMA</td><td>930</td></tr> <tr><td>Sioux City</td><td></td></tr> <tr><td>KSCJ</td><td>1330</td></tr> <tr><td>KTRI</td><td>1420</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">KANSAS</td></tr> <tr><td>Atchison</td><td></td></tr> <tr><td>KVAK</td><td>1420</td></tr> <tr><td>Coffeyville</td><td></td></tr> <tr><td>KGGF</td><td>1010</td></tr> <tr><td>Dodge City</td><td></td></tr> <tr><td>KGNO</td><td>1340</td></tr> <tr><td>Emporia</td><td></td></tr> <tr><td>KTSW</td><td>1370</td></tr> <tr><td>Garden City</td><td></td></tr> <tr><td>KIUL</td><td>1210</td></tr> <tr><td>Great Bend</td><td></td></tr> <tr><td>KVGB</td><td>1370</td></tr> <tr><td>Hutchinson</td><td></td></tr> <tr><td>KWBG</td><td>1420</td></tr> <tr><td>Kansas City</td><td></td></tr> <tr><td>KCKN</td><td>1310</td></tr> <tr><td>Lawrence</td><td></td></tr> <tr><td>KCKU</td><td>1220</td></tr> <tr><td>WREN</td><td>1220</td></tr> <tr><td>Manhattan</td><td></td></tr> <tr><td>KSAC</td><td>580</td></tr> <tr><td>Pittsburg</td><td></td></tr> <tr><td>KOAM</td><td>790</td></tr> <tr><td>Salina</td><td></td></tr> <tr><td>KSAL</td><td>1120</td></tr> <tr><td>Topeka</td><td></td></tr> <tr><td>WIBW</td><td>580</td></tr> <tr><td>Wichita</td><td></td></tr> <tr><td>KANS</td><td>1210</td></tr> <tr><td>KFBI</td><td>1050</td></tr> <tr><td>KFH</td><td>1300</td></tr> </table>	WSBT	1360	Terre Haute		WBOV	1200	Vincennes		WAOV	1420	West Lafayette		WBAA	890	IOWA		Ames		WOI	640	Boone		KFGQ	1370	Cedar Rapids		WMT	600	Davenport		WOC	1370	Decorah		KWLC	1270	Des Moines		KRNT	1320	KSO	1430	WHO	1000	Dubuque		KDTH	1340	WKBB	1500	Fort Dodge		KVFD	1370	Iowa City		WSUI	850	Marshalltown		KFJB	1200	Mason City		KGLO	1210	OTTUMWA		KHIZ	1210	Shonandoah		KFNF	890	KMA	930	Sioux City		KSCJ	1330	KTRI	1420	KANSAS		Atchison		KVAK	1420	Coffeyville		KGGF	1010	Dodge City		KGNO	1340	Emporia		KTSW	1370	Garden City		KIUL	1210	Great Bend		KVGB	1370	Hutchinson		KWBG	1420	Kansas City		KCKN	1310	Lawrence		KCKU	1220	WREN	1220	Manhattan		KSAC	580	Pittsburg		KOAM	790	Salina		KSAL	1120	Topeka		WIBW	580	Wichita		KANS	1210	KFBI	1050	KFH	1300	<table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">KENTUCKY</td></tr> <tr><td>Ashland</td><td></td></tr> <tr><td>WCMJ</td><td>1310</td></tr> <tr><td>Bowling Green</td><td></td></tr> <tr><td>WBLJ</td><td>1310</td></tr> <tr><td>Hopkinsville</td><td></td></tr> <tr><td>WHOP</td><td>1200</td></tr> <tr><td>Lexington</td><td></td></tr> <tr><td>WLAP</td><td>1420</td></tr> <tr><td>Louisville</td><td></td></tr> <tr><td>WAVE</td><td>940</td></tr> <tr><td>WHAS</td><td>820</td></tr> <tr><td>WINN</td><td>1210</td></tr> <tr><td>Owensboro</td><td></td></tr> <tr><td>WOMI</td><td>1500</td></tr> <tr><td>Padueah</td><td></td></tr> <tr><td>WPAD</td><td>1420</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">LOUISIANA</td></tr> <tr><td>Alexandria</td><td></td></tr> <tr><td>KALB</td><td>1210</td></tr> <tr><td>Baton Rouge</td><td></td></tr> <tr><td>WJBO</td><td>1120</td></tr> <tr><td>Lafayette</td><td></td></tr> <tr><td>KVOL</td><td>1310</td></tr> <tr><td>Lake Charles</td><td></td></tr> <tr><td>KPLC</td><td>1500</td></tr> <tr><td>Monroe</td><td></td></tr> <tr><td>KMLB</td><td>1200</td></tr> <tr><td>New Orleans</td><td></td></tr> <tr><td>WDSU</td><td>1250</td></tr> <tr><td>WJBW</td><td>1200</td></tr> <tr><td>WNOE</td><td>1420</td></tr> <tr><td>WSMB</td><td>1320</td></tr> <tr><td>WML</td><td>850</td></tr> <tr><td>Shreveport</td><td></td></tr> <tr><td>KRMD</td><td>1210</td></tr> <tr><td>KTBS</td><td>1450</td></tr> <tr><td>KWKH</td><td>1100</td></tr> </table>	KENTUCKY		Ashland		WCMJ	1310	Bowling Green		WBLJ	1310	Hopkinsville		WHOP	1200	Lexington		WLAP	1420	Louisville		WAVE	940	WHAS	820	WINN	1210	Owensboro		WOMI	1500	Padueah		WPAD	1420	LOUISIANA		Alexandria		KALB	1210	Baton Rouge		WJBO	1120	Lafayette		KVOL	1310	Lake Charles		KPLC	1500	Monroe		KMLB	1200	New Orleans		WDSU	1250	WJBW	1200	WNOE	1420	WSMB	1320	WML	850	Shreveport		KRMD	1210	KTBS	1450	KWKH	1100	<table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">MASSACHUSETTS</td></tr> <tr><td>Boston</td><td></td></tr> <tr><td>WAAB</td><td>1410</td></tr> <tr><td>WBZ</td><td>990</td></tr> <tr><td>WCOP</td><td>1120</td></tr> <tr><td>WEI</td><td>590</td></tr> <tr><td>WHDH</td><td>830</td></tr> <tr><td>WMEX</td><td>1470</td></tr> <tr><td>WNAZ</td><td>1230</td></tr> <tr><td>WORL</td><td>920</td></tr> <tr><td>Fall River</td><td></td></tr> <tr><td>WSAB</td><td>1450</td></tr> <tr><td>Greenfield</td><td></td></tr> <tr><td>WHAI</td><td>1210</td></tr> <tr><td>Holyoke</td><td></td></tr> <tr><td>WHYN</td><td>1370</td></tr> <tr><td>WYannis</td><td></td></tr> <tr><td>WOCB</td><td>1210</td></tr> <tr><td>Lawrence</td><td></td></tr> <tr><td>WLAW</td><td>680</td></tr> <tr><td>WLLH</td><td>1370</td></tr> <tr><td>Lowell</td><td></td></tr> <tr><td>WLLH</td><td>1370</td></tr> <tr><td>New Bedford</td><td></td></tr> <tr><td>WNLE</td><td>1310</td></tr> <tr><td>Pittsfield</td><td></td></tr> <tr><td>WBRK</td><td>1310</td></tr> <tr><td>Salem</td><td></td></tr> <tr><td>WESX</td><td>1200</td></tr> <tr><td>Springfield</td><td></td></tr> <tr><td>WBZA</td><td>990</td></tr> <tr><td>WMAS</td><td>1420</td></tr> <tr><td>WSPR</td><td>1140</td></tr> <tr><td>Worcester</td><td></td></tr> <tr><td>WORC</td><td>1280</td></tr> <tr><td>WTAG</td><td>580</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">MICHIGAN</td></tr> <tr><td>Battle Creek</td><td></td></tr> <tr><td>WELL</td><td>1420</td></tr> <tr><td>Bay City</td><td></td></tr> <tr><td>WBCM</td><td>1410</td></tr> <tr><td>Calumet</td><td></td></tr> <tr><td>WHDF</td><td>1370</td></tr> <tr><td>Detroit</td><td></td></tr> <tr><td>WJBJ</td><td>1560</td></tr> <tr><td>WJR</td><td>750</td></tr> <tr><td>WBBC</td><td>1420</td></tr> <tr><td>WWJ</td><td>920</td></tr> <tr><td>WXYZ</td><td>1240</td></tr> <tr><td>East Lansing</td><td></td></tr> <tr><td>WKAR</td><td>850</td></tr> <tr><td>Flint</td><td></td></tr> <tr><td>WFDF</td><td>1310</td></tr> <tr><td>Grand Rapids</td><td></td></tr> 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Bedford		WNLE	1310	Pittsfield		WBRK	1310	Salem		WESX	1200	Springfield		WBZA	990	WMAS	1420	WSPR	1140	Worcester		WORC	1280	WTAG	580	MICHIGAN		Battle Creek		WELL	1420	Bay City		WBCM	1410	Calumet		WHDF	1370	Detroit		WJBJ	1560	WJR	750	WBBC	1420	WWJ	920	WXYZ	1240	East Lansing		WKAR	850	Flint		WFDF	1310	Grand Rapids		WASH	1270	WGRB	1200	WLAJ	1310	WOOD	1270	Ironwood		WJBS	1420	Jackson		WIBM	1370	Kalamazoo		WKZO	590	Lansing		WJIM	1210	Lapeer		WMPK	1200	Marquette		WDMJ	1310	Muskegon		WKBZ	1500	Pontiac		WCAR	1100	<table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">Port Huron</td></tr> <tr><td>WTLS</td><td>1370</td></tr> <tr><td>Royal Oak</td><td></td></tr> <tr><td>WKXL</td><td>1310</td></tr> <tr><td>Saginaw</td><td></td></tr> <tr><td>WHAL</td><td>850</td></tr> <tr><td>WSAM</td><td>1200</td></tr> <tr><td>Sault Ste. Marie</td><td></td></tr> <tr><td>WSOO</td><td>1200</td></tr> <tr><td>Traverse City</td><td></td></tr> <tr><td>WTCM</td><td>1370</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">MINNESOTA</td></tr> <tr><td>Albert Lea</td><td></td></tr> <tr><td>KATE</td><td>1420</td></tr> <tr><td>Duluth</td><td></td></tr> <tr><td>KDAL</td><td>1500</td></tr> <tr><td>WEBC</td><td>1290</td></tr> <tr><td>Fergus Falls</td><td></td></tr> <tr><td>KGDE</td><td>1200</td></tr> <tr><td>Hibbing</td><td></td></tr> <tr><td>WMPG</td><td>1310</td></tr> <tr><td>Mankato</td><td></td></tr> <tr><td>KYSM</td><td>1500</td></tr> <tr><td>Minneapolis</td><td></td></tr> <tr><td>WCCO</td><td>810</td></tr> <tr><td>WDGY</td><td>1180</td></tr> <tr><td>WLB</td><td>760</td></tr> <tr><td>WLOL</td><td>1300</td></tr> <tr><td>WTCN</td><td>1250</td></tr> <tr><td>Moorhead</td><td></td></tr> <tr><td>KVOX</td><td>1310</td></tr> <tr><td>Northfield</td><td></td></tr> <tr><td>WCAL</td><td>760</td></tr> <tr><td>Rochester</td><td></td></tr> <tr><td>KROC</td><td>1310</td></tr> <tr><td>St. Cloud</td><td></td></tr> <tr><td>KFAM</td><td>1420</td></tr> <tr><td>St. Paul</td><td></td></tr> <tr><td>KSTP</td><td>1460</td></tr> <tr><td>WMIN</td><td>1370</td></tr> <tr><td>Virginia</td><td></td></tr> <tr><td>WHLB</td><td>1370</td></tr> <tr><td>Willmar</td><td></td></tr> <tr><td>KWLM</td><td>1310</td></tr> <tr><td>Winona</td><td></td></tr> <tr><td>KWNO</td><td>1200</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">MISSISSIPPI</td></tr> <tr><td>Columbus</td><td></td></tr> <tr><td>WCBI</td><td>1370</td></tr> <tr><td>Greenville</td><td></td></tr> <tr><td>WJPR</td><td>1310</td></tr> <tr><td>Greenwood</td><td></td></tr> <tr><td>WGRM</td><td>3210</td></tr> <tr><td>Gulfport</td><td></td></tr> <tr><td>WGOM</td><td>1210</td></tr> <tr><td>Hattiesburg</td><td></td></tr> <tr><td>WFOR</td><td>1370</td></tr> <tr><td>Jackson</td><td></td></tr> <tr><td>WJDX</td><td>1270</td></tr> <tr><td>WSLI</td><td>1420</td></tr> <tr><td>Laurel</td><td></td></tr> <tr><td>WAML</td><td>1310</td></tr> <tr><td>McComb</td><td></td></tr> <tr><td>WSKB</td><td>1200</td></tr> <tr><td>Meridian</td><td></td></tr> <tr><td>WCOC</td><td>880</td></tr> <tr><td>Vicksburg</td><td></td></tr> <tr><td>WQBC</td><td>1360</td></tr> </table> <table border="0" style="width: 100%;"> <tr><td colspan="2" style="text-align: center;">MISSOURI</td></tr> <tr><td>Cape Girardeau</td><td></td></tr> <tr><td>KFVS</td><td>1370</td></tr> <tr><td>Clayton</td><td></td></tr> <tr><td>KFUO</td><td>830</td></tr> </table>	Port Huron		WTLS	1370	Royal Oak		WKXL	1310	Saginaw		WHAL	850	WSAM	1200	Sault Ste. Marie		WSOO	1200	Traverse City		WTCM	1370	MINNESOTA		Albert Lea		KATE	1420	Duluth		KDAL	1500	WEBC	1290	Fergus Falls		KGDE	1200	Hibbing		WMPG	1310	Mankato		KYSM	1500	Minneapolis		WCCO	810	WDGY	1180	WLB	760	WLOL	1300	WTCN	1250	Moorhead		KVOX	1310	Northfield		WCAL	760	Rochester		KROC	1310	St. Cloud		KFAM	1420	St. Paul		KSTP	1460	WMIN	1370	Virginia		WHLB	1370	Willmar		KWLM	1310	Winona		KWNO	1200	MISSISSIPPI		Columbus		WCBI	1370	Greenville		WJPR	1310	Greenwood		WGRM	3210	Gulfport		WGOM	1210	Hattiesburg		WFOR	1370	Jackson		WJDX	1270	WSLI	1420	Laurel		WAML	1310	McComb		WSKB	1200	Meridian		WCOC	880	Vicksburg		WQBC	1360	MISSOURI		Cape Girardeau		KFVS	1370	Clayton		KFUO	830
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Columbia	
KFRU	630
Jefferson City	
KWOS	1310
Joplin	
WMBH	1420
Kansas City	
KCMO	1450
KITE	1530
KMBC	950
WDAF	610
WHB	860
Poplar Bluff	
KWOC	1310
St. Joseph	
KFEQ	680
St. Louis	
KMOX	1090
KSD	650
KWK	1359
KXOK	1250
WEV	760
WIL	1200
Sedalla	
KDRO	1500
Springfield	
KGBX	1230
KWTO	560
MONTANA	
Billings	
KGHL	780
Bozeman	
KRBM	1420
Butte	
KGR	1340
Great Falls	
KFBB	1280
Helena	
KPFA	1210
Kallispell	
KGEZ	1310
Miles City	
KRIF	1310
Missoula	
KGVO	1260
Wolf Point	
KGCX	1450
NEBRASKA	
Fremont	
KORN	1370
Grand Island	
KMMJ	740
Hastings	
KHAS	1200
Kearney	
KGFW	1210
Lincoln	
KFAB	770
KFOR	1210
Norfolk	
WJAG	1060
North Platte	
EGNF	1450
Omaha	
KOIL	1200
KOWH	660
WOW	590
Scottsbluff	
KGKY	1500
NEVADA	
Las Vegas	
KENO	1370
KFUN	1420
Reno	
KOH	630

New HAMPSHIRE	
Laeonia	
WLNH	1310
Manchester	
WFEA	1340
WMUR	610
Portsmouth	
WHBR	740
NEW JERSEY	
Asbury Park	
WCAP	1280
Atlantic City	
WTRB	1200
WFOQ	1420
Bridgeton	
WSNJ	1210
Camden	
WCAM	1280
Jersey City	
WAAT	940
WHOM	1450
Newark	
WHBI	1250
WOR	710
Paterson	
WPAT	900
Red Bank	
WRRB	1210
Tranton	
WTNJ	1230
Zarephath	
WAWZ	1350
NEW MEXICO	
Albuquerque	
KGGM	1230
KOB	1180
Carlsbad	
KLAH	1210
Clovis	
KICA	1370
Gallup	
KAWM	1500
Hobbs	
KWVW	1500
Roswell	
KGFL	1270
Santa Fe	
KVSP	1310
NEW YORK	
Albany	
WABY	1370
WOKO	1430
Auburn	
WMBQ	1210
Binghamton	
WNEB	1500
Brooklyn	
WARD	1400
WBBC	1400
WBBR	1300
WCNW	1500
WVPW	1400
Buffalo	
WBen	900
WBNY	1370
WEBR	1310
WGR	550
WKBW	1430
WSVS	1370
Canton	
WCAD	1220
Elmira	
WENY	1200
Freeport	
WGBE	1210

Ithaca	
WHCT	850
Jamestown	
WJTN	1210
Kingston	
WKNY	1500
Newburgh	
WGNV	1220
New York	
WAAC	860
WBNK	1350
WEAF	660
WEVD	1300
WITN	1010
WINS	1180
WJZ	760
WLTH	1400
WMCA	570
WNEW	1250
WNYC	810
WOV	1100
WQXR	1650
Niagara Falls	
WHLD	1260
Ondersburg	
WSLB	1370
Olean	
WHDL	1420
Plattsburg	
WMFF	1310
Poughkeepsie	
WKIP	1420
Rochester	
WHAM	1150
WHFC	1430
WSAY	1210
Salina	
WAGE	620
Saranac Lake	
WNBZ	1290
Schenectady	
WGY	790
Syracuse	
WFBL	1360
WOLF	1500
WSYR	670
Troy	
WHAZ	1300
WTRY	950
Utica	
WIBX	1200
Watertown	
WATN	1210
WVNY	1270
White Plains	
WFAS	1210
Woodside	
WVRL	1800
NORTH CAROLINA	
Asheville	
WISE	1370
WWNC	670
Charlotte	
WPT	1020
WSOC	1210
Durham	
WDNC	1500
Elizabeth City	
WCNC	1370
Fayetteville	
WFNC	1340
Gastonia	
WGNC	1420
Goldsboro	
WGBR	1370
Greensboro	
WBIG	1440

Greenville	
WGTC	1500
Hickory	
WHKY	1370
High Point	
WMFR	1200
Kinston	
WPTC	1200
Raleigh	
WPTF	680
WRAL	1210
Roanoke	
Rapids	
WCBT	1200
Rocky Mount	
WEED	1420
Salisbury	
WSTP	1500
Wilmington	
WMFD	1370
Wilson	
WGTM	1310
Winston-Salem	
WAIR	1250
WSJS	1310
NORTH DAKOTA	
Bismarck	
KFYR	550
Devils Lake	
KDLR	1210
Fargo	
WDAY	940
Grand Forks	
KFJM	1410
Jamestown	
KRMC	1370
Mandan	
KGCC	1240
Minot	
KLPM	1360
Valley City	
KOVC	1500
OHIO	
Akron	
WAKR	1630
WJW	1210
Ashtabula	
WICA	940
Canton	
WHRC	1200
Cincinnati	
WCKY	1490
WCPO	1200
WKRZ	550
WLV	700
WSAI	1380
WXO	700
Cleveland	
WCLE	610
WGAR	1450
WHAM	1390
WTKM	1070
Columbus	
WBNS	1430
WCOL	1200
WHKC	640
WOSU	570
Dayton	
WHIO	1260
WING	1380
Lima	
WLOK	1210

Mansfield	
WMAN	1370
Marion	
WMRN	1500
Portsmouth	
WPAY	1370
Springfield	
WIZE	1310
Steuheville	
WSTV	1310
Tallmadge	
WADC	1320
Toledo	
WSPD	1340
WTOG	1200
Youngstown	
WTMJ	1420
WKBN	570
Zanesville	
WHIZ	1210
OKLAHOMA	
Ada	
KADA	1200
Ardmore	
KVSO	1210
Elk City	
KASA	1210
Enid	
KCRC	1360
Muskogee	
KBTX	1500
Norman	
WNAD	1010
Oklahoma City	
KOCY	1310
KOMA	1480
KTOK	1370
WKY	900
Okmulgee	
KHBB	1210
Ponca City	
WBBZ	1200
Shawnee	
KGFF	1420
Tulsa	
KOME	1210
KTUL	1400
KVOO	1140
OREGON	
Astoria	
KAST	1200
Baker	
KBKR	1500
Bend	
KBND	1310
Corvallis	
KOAC	630
Eugene	
KORE	1420
Grants Pass	
KULN	1310
Klamath Falls	
KFII	1210
La Grande	
KLBM	1420
Marshfield	
KOOS	1200
Medford	
KMED	1410
Portland	
KALE	1200
KBPS	1420
KEX	1160
KGW	690

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KOIN 940	PUERTO RICO	Kingsport	San Antonio	WRNL 860
KWJJ 1040	Mayaguez	WKPT 1370	KABC 1420	WRVA 1110
KXL 1420	WPRA 780	Knoxville	KMAC 1370	Roanoke
Roseburg	Ponce	WRIR 1210	KONO 1370	WDRJ 920
KRRR 1500	WPAB 1340	WNOX 1010	KTSA 550	WSLS 1500
Salem	WPRP 1420	WROL 1210	WQAI 1190	Suffolk
KSLM 1300	San Juan	Memphis	Sherman	WLPM 1420
The Dalles	WKAQ 1240	WHBQ 1370	KRRV 880	
KODL 1200	WNEL 1290	WMC 780	Sweetwater	
		WMP5 1430	KXOX 1210	WASHINGTON
Pennsylvania	RHODE ISLAND	WREC 600	Temple	Aberdeen
Allentown	Pawtucket	Nashville	KTEM 1370	KXRO 1310
WCBA 1440	WFCI 1300	WLAC 1470	Texarkana	Bellingham 1200
WSAN 1440	Providence	WSIV 1210	KCMC 1420	KVOS 1200
Altoona	WEAN 780	WSM 650	Vernon	Centralla
WFBG 1310	WJAR 890		KVctoria	KELA 1440
Du Bois	WPRO 630	TEXAS	KVIC 1310	Everett
WCED 1300		Abilene	Waco	KRKO 1370
Easton	SOUTH CAROLINA	KRBC 1420	WACO 1420	Longview
WEST 1200	Anderson	Amarillo	Weslaco	KWLK 1370
WERC 1500	WACH 1200	KPDA 1200	KROY 1260	Olympia
WLEU 1420	WCSG 1300	KGNC 1410	Wchita Falls	KGY 1210
GlenSide	WTMA 1210	Austin	KWFT 620	Pullman
WIRG 970	Columbia	KNOW 1500		KWSC 1220
Greenburg	WCOS 1270	Beaumont	UTAH	Seattle
WHJB 620	WIS 500	KPDM 560	Cedar City	KEVB 1370
Grove City	Florence	KRIC 1420	KSUB 1310	KIRO 710
WSAJ 1310	WOLS 1200	Big Spring	Logan	KJR 970
Harriaburg	Greenville	KBST 1500	KVNU 1200	KOL 1370
WHP 1430	WPRC 1300	Brady	Ogden	KOMO 920
WKBO 1200	WPBC 1500	KNEL 1500	KLO 1400	KRSC 1130
Hazleton	WSPR 1500	Brownwood	Price	KTW 1230
WAZL 1420	Spartanburg	College Station	KEUB 1420	KXA 760
Johnstown	WORD 1370	WTAW 1120	Provo	Spokane
WJAC 1370	WSPA 920	Corpus Christi	KOVO 1210	KPIO 1120
Lancaster	WTFJ 1310	KCVS 1500	Salt Lake City	KPPY 890
WGAL 1500		KRIS 1320	KDYL 1290	KGA 1470
New Castle	SOUTH DAKOTA	KRLD 1040	KSL 1130	KHQ 596
WKST 1250	Aberdeen	WFAA 800	KUTA 1500	Tacoma
New Kensington	KABR 1300	WBR 1280		KMO 1330
WKPA 1120	Brookings	Denton	VERMONT	KVI 570
Philadelphia	KFDY 780	KDNT 1420	Burlington	Vancouver
KYV 1020	Pierre	Dublin	WCAX 1200	KVAN 880
WCAU 1170	KGFX 630	El Paso	Rutland	Walla Walla
WDAS 1370	Rapid City	KROD 1500	WSBY 1500	KUJ 1370
WFIL 560	KOBH 1370	KTSM 1350	St. Albans	Wenatchee
WHAT 1310	WCAT 1200	Fort Worth	WQDM 1390	KPK 1500
WIP 610	Sloux Falls	KFJZ 1240	Springfield	KIT 1250
WPEN 920	KELO 1200	KGKO 870	WNBX 1260	
WTFL 1310	KSOU 1110	WHAP 800	Waterbury	WEST VIRGINIA
Pittsburgh	Vermillion	Galveston	WDEV 550	Beckley
KDKA 980	KUSD 890	KLUF 1370		WJLS 1210
KQV 1380	Watertown	Houston	VIRGINIA	Bluefield 1410
WCAE 1220	KWAT 1210	KPRC 920	Charlottesville	Charleston
WJAS 1290	Yankton	KTRH 1290	WCHV 1420	WCHS 580
WWSW 1500	WNAX 570	KXYZ 1440	Danville	WGKV 1500
Reading	TENNESSEE	Kilgore	Fredericksburg	Clarksburg
WEEU 830	Bristol	KOCA 1210	WFVA 1260	WBLK 1370
WRAW 1310	WOPF 1500	Laredo	Harrisonburg	Fairmont
Seranton	Chattanooga	KPAB 1500	WSVA 550	WMMN 890
WARM 1370	WAPO 1420	Longview	Lynchburg	Huntington
WGBI 880	WDEF 1370	KPEO 1340	WLVA 1200	WSAZ 1190
WQAN 880	WDOD 1280	Lubbock	WVVA 1420	WLOG 1200
Sharon	Cookeville	KPYO 1310	Martinsville	Morgantown
WPIC 780	WHUB 1370	Midland	WVVA 1420	WAJR 1200
WKOK 1210	Jackson	KRLH 1420	Newport News	WPAB 1420
Uniontown	WTSJ 1310	Pampa	WGH 1310	Welch
WMB5 1420	Johnsen City	KPDN 1310	Norfolk	WBRW 1310
Wilkes-Barre	WJHL 1200	Paris	WTR 780	Wheeling
WBAX 1210		KPLT 1500	Petersburg	WVVA 1180
WBRE 1310		Pecos	WPD 1210	
Williamsport		KITN 1370	Richmond	
WRAK 1370		Port Arthur	WBBL 1210	
York		KPAC 1220	WMBG 1350	
WORK 1320		San Angelo		
		KGKL 1370		

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Williamson
WBTH 1370

WISCONSIN

Appleton
WBAY 1200
Ashland
WATW 1370
Eau Claire
WEAU 1050
Fond du Lac
KFIZ 1420
Green Bay
WTAQ 1330
Janesville
WCLO 1200
LaCrosse
WKBH 1380
Madison
WHA 940
WIBA 1280
Manitowoc
WOMT 1210
Marinette
WMAM 870
Milwaukee
WEMP 1310
WISN 1120
WTMJ 620
Poynette
WIRU 1210
Racine
WBJN 1370
Rice Lake
WJMC 1210
Sheboygan
WHDL 1300
Stevens Point
WLBL 900
Superior
WDSM 1300
Wausau
WSAU 1370
Wisconsin Rapids
WFRR 1310

WYOMING

Casper
KDFN 1440
Cheyenne
KFRC 1420
KYAN 1370
Rock Springs
KVBS 1370
Sheridan
KWYO 1370

BAHAMAS

Nassau
ZNS 790

CANADA ALBERTA

Calgary
CFAC 930
CFCN 1020
CJCI 690
Edmonton
CFRN 960
CJCA 730
EKULA 580
Grande Prairie
CFGP 1310
Lethbridge
CJOC 1370

BRITISH COLUMBIA

Chilliwack
CHWK 780
Kamloops
CFJC 880
Kelowna
CKOV 630
Nelson
CKLN 1420
Prince Rupert
CFPR 580
Trail
CJAT 910
Vancouver
CBR 1100
CJOR 600
CKMO 1410
CKWX 950
Victoria
CFCT 1450

MANITOBA

Brandon
CKX 1120
Flin Flon
CFAR 1270
Winnipeg
CJRC 630
CKY 910

NEW BRUNSWICK

Campbellton
CKNB 1210
Fredericton
CFNB 550
Moncton
CKCW 1270
Sackville
CBA 1050
St. John
CHSJ 1120

NOVA SCOTIA

Glace Bay
VAS 685
Halifax
CHNS 230
CHMC 1290
Sydney
CJCB 1240
Yarmouth
CJLS 1310

ONTARIO

Brantford
CKPC 930
Chatham
CKCO 630
Cobalt
CKMC 1210
Fort William
CKPR 580
Hamilton
CHML 1010
CKOC 1120
Kenora
CKCA 1420
Kingston
CFRC 1510
Kirkland Lake
CKKL 560
London
CFPL 730

North Bay

CFCH 930
Ottawa
CKO 8830
CKCO 1010
Owen Sound
CFOS 1370
Prescott
CFPL 930
St. Catharines
CKTB 1200
Sault Ste. Marie
CJIC 1500
Stratford
CJCS 1210
Sudbury
CKSO 780
Timmins
CKGB 1440
Toronto
CBL 840
CIBY 1420
CFRB 690
CKCL 580
Waterloo
CKCR 1510
Windsor
CKLW 1030
Wingham
CKNX 1200

PRINCE EDWARD ISLAND

Charlottetown
CFCY 630
CHCK 1310
Summerside
CHGS 1450

QUEBEC

Chicoutimi
CBJ 1120
Hull
CKCH 1210
Montreal
CBF 910
CBM 960
CFCF 600
CHLP 1120
CKAC 730
New Carlisle
CHNC 610
Quebec
CHBC 530
CKCV 1310
Rimouski
CJBR 1030
Rouyn
CKRN 1370
St. Anne de la Pocatiere
CHKG 1200
Sherbrooke
CHLT 1210
Three Rivers
CHLN 1420
Val d'Or
CKVD 1200

SASKATCH- EWAN

Moose Jaw
CHAB 1200

North Battleford

CHNB 1420
Prince Albert
CBBI 1210
Regina
CJRM 950
CKCK 1010
Saskatoon
CKQC 600
Watrous
CBK 540
Yorkton
CJGX 1430

COSTA RICA

Alajuela
TISCY 575
San Jose
TIAPF 900
TIEMC 860
TIEP 880
TIFA 1000
TIGH 690
TIGPH 600
TIGPH2 1225
TIHO 1030
TILJ 775
TILS 880
TINRC 1070
TING 750
TIOS 940
TIPI 625
TIRCC 1200
TIRS 920
TIXD 800

CUBA

Banes
CMKX 1190
Bayamo
CMKL 950
Calbarien
CMHD 1270
Camaguey
CMJA 860
CMJC 1390
CMJE 1230
CMJF 930
CMJK 1020
CMJN 610
CMJW 1070
CMJX 900
Cardenas
CMGE 1370
Ciego de Avila
CMJH 1360
CMJI 1130
CMJM 870
CMJO 1260
Cienfuegos
CMHJ 1160
CMHM 1450
CMHO 1020
CMHX 1480
Cruces
CMHK 1210
Guanabacoa
CMGX 1050
Guantanamo
CMKH 1110
CMKJ 760
CMKS 860
Guines
CMRT 1530
Havana
CMBC 780
CMBD 1290
CMBF 1290
CMBG 1180

0091 HAWAII

CMBL 720
CMBA 1150
CMBS 1250
CMBX 1180
CMBY 1410
CMCZ 1010
CMC 1350
CMCA 1350
CMCB 1250
CMCD 685
CMCF 810
CMCG 1080
CMCH 1050
CMCI 1550
CMCK 970
CMCM 850
CMCO 1210
CMCQ 1410
CMCT 1110
CMCR 1550
CMCW 1510
CMCY 590
CMK 750
CMOA 1310
CMOX 1510
CMG 690
CMW 850
CMX 880
CMZ 920
Honolulu
CMKF 1400
CMKO 1380
CMKW 570
Jovellanos
CMGN 760
Manzanillo
CMKJ 1810
CMKM 1080
Matanzas
CMGF 1120
CMGH 1190
Moron
CMJP 1420
Nuevitas
CMJL 1330
Palma Soriano
CMKZ 1430
Pinar del Rio
CMAB 1240
CMAC 1030
CMAN 540
CMAR 1400
Piscetas
CMHP 1100
Puerto Padre
CMKB 1350
Sagua la Grande
CMHA 1090
Sancti Spiritus
CMHB 1240
Santa Clara
CMHT 830
CMHN 760
CMHU 1320
CMHW 950
Santiago
CMKC 1350
CMKD 910
CMKG 1090
CMKN 640
CMKQ 1490
CMKR 1400
CMKW 1050
CMKY 1140
Trinidad
CMBT 920
Victoria Tunas
CMKU 730

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

REPUBLIC DOMINICAN

Cludad Trujillo	
HIG	900
HIN	1090
HIX	900
HIT	1050
HIZ	1370
H18Q	1470

EL SALVADOR

San Salvador	
YSS	640

GUATEMALA

Guatemala City	
TKW	1520
TGX	1400
TGI	1310
Quetzaltenango	
TGQ	1450

HONDURAS

Tegucigalpa	
HRN	1445f

MEXICO

Aguascalientes	
XEAD	1240
XEBI	1000

BAJA CALIFORNIA

Mexicali	
XEAA	750
XEAO	660
XECL	1110
Tijuana	
XEAC	980
XEAU	1400
XEBG	820
XEC	1150
XELO	670
XEMO	860
XEON	750
XERB	1090

CAMPECHE

Campeche	
XEA	1400

CHIHUAHUA

Chihuahua	
XEBU	1240
XEBW	1340
XEFL	1440
XEM	1390

Juarez	
XEF	1450
XEFV	1210
XEJ	1020
XEP	1160

Parral	
XEAT	1210
XEPR	1490

Sabinas	
XEDX	640

Saltillo	
XEAS	1160
XEKS	1240

Torreón	
XEDE	1400
XETB	1310

Villa Acuna	
XEDH	1340
XERA	840

DISTRITO FEDERAL

Mexico City	
XEAI	1250
XEB	1020
XEBS	1340
XEBZ	819
XEDA	1220
XEDF	080
XEFO	940
XEF	1130
XEKR	1280
XEL	1150
XELZ	1370
XEN	780
XEQ	780
XEQK	1500
XERC	830
XERH	1430
XESM	1270
XEK	1000

XEW	990
XEXX	1170

DURANGO

Durango	
XEBP	1150
XEE	1210

GUANAJUATO

Irapuato	
XERO	1330
XEFM	1180
Leon	
XEFM	1160
XEKL	1240
Silao	
XEWE	720

JALISCO

Guadalupe	
XED	1100
XEHK	1130
XELV	1340
Guzman	
XEBA	1030

MEXICO

Texcoco	
XEXE	1270
Toluca	
XECH	1490

MICHOACAN

Morelia	
XEBC	1240
XEI	1370

NAYARIT

Tepic	
XERK	1450

NUEVO LEON

Monterrey	
XEFB	870
XEG	1230
XEH	740
XET	690
XEX	1310

OAXACA

XEOA	1240
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Oaxaca	
XEXH	1150

PUEBLA

Puebla	
XEHR	1230

SAN LUIS POTOSI

San Luis	
XECZ	1370

SINALOA

Los Mochis	
XEOX	1230
Mazatlan	
XEBL	1220
XEDS	1400

SONORA

Caranava	
XEFQ	1010
Guaymas	
XEDR	1490

Hermosillo

XERH	930
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Magdalena

XERJ	1450
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Navajoa

XEAJ	1400
XEDL	1240

Nogales

XPAF	1000
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Oregon

XPAF	1000
XEY	1450

TAMAULIPAS

Matamoros	
XEAM	750

Nuevo Laredo	
XEBK	1080
XEDF	1210
XEPE	910
XENT	990

Reynosa	
Potosi	

XECA	1230
XEFW	1310
XES	990
Victoria	
XEBJ	1340

VERA CRUZ

Cordoba	
XEAG	1310
XECW	1240
Jalapa	
XEXB	1270
Minatitlan	
XEDW	1150
Orizaba	
XEPP	1400
Veraacruz	
XETF	1220
XEU	1010

YUCATAN

Merida	
XEFC	1340
XEME	1240
XEZ	630

ZACATECAS

Zacatecas	
XELK	1230

MIQUELON

St. Pierre	
FQN	609

NEWFOUNDLAND

St. John's	
VOAC	1065
VOAR	950
VOCM	1040
VONF	640
VOWB	700

PANAMA

Colon	
XEAW	960
HOK	640
VOGY	840

1530 kcs. (196 m.)

CMCJ	...	200
CMCR	...	200
KITE	M	1000
WBRY	CMX	1000
WAKR	BP	1000

- a Havana, Cuba
- a Kansas City, Mo.
- a Waterbury, Conn.
- z Akron, Ohio

Pete Houck, Eng.
S. E. Warner, Ch. Eng.
....

1550 kcs. (193.4 m.)

KPMC	M	1000
WQXR	X	1000

- a Bakersfield, Calif.
- a New York, N. Y.

L. A. Schamblin, Mgr.
Russell Valentine, Ch. Eng.

1580 kcs. (189.8 m.)

CMRT	...	200
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- z Guines, Cuba

Raul Torres Pardo

1600 kcs. (187.4 m.)

CMBH	...	5000
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- e Havana, Cuba

Alberto Alvarez Ferrera

NORTH AMERICAN B. C. 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	1050	CHGB	1200	CKCK	1010	CMBD	1290	CMGN	760	CMKC	1250
CBF	910	CHGS	1450	CKCL	580	CMBF	1290	CMHA	1090	CMKD	910
CBJ	1120	CHLN	1420	CKCO	1010	CMBG	1180	CMHB	1240	CMKE	1310
CBK	540	CHLP	1120	CKCR	1510	CMBH	1600	CMHD	1270	CMKF	1460
CBL	840	CHLT	1210	CKCV	1310	CMBL	720	CMHI	830	CMKG	1000
CBM	960	CHML	1010	CKCW	1370	CMBQ	1150	CMHJ	1160	CMKH	1110
CBO	880	CHNB	1420	CKGB	1440	CMBS	1250	CMHK	1210	CMKJ	760
CBR	1100	CHNC	610	CKIC	1010	CMBX	1180	CMHM	1450	CMKL	950
CBV	950	CHNS	930	CKLN	1420	CMBY	1410	CMHN	760	CMKM	1080
CBY	1420	CHRC	580	CKLW	1030	CMBZ	1010	CMHO	1020	CMKN	640
CFAC	930	CHSJ	1120	CKMC	1210	CMC	1350	CMHP	1100	CMKO	1280
CFAR	1370	CHWK	780	CKMO	1410	CMCA	1350	CMHQ	1320	CMKQ	1490
CFCF	600	CJAT	910	CKNB	1210	CMBC	1250	CMHT	920	CMKR	1400
CFCH	930	CJBR	1030	CKNX	1200	CMCD	630	CMHW	950	CMKS	860
CFCN	1030	CJCA	730	CKOC	1120	CMCF	810	CMHX	1480	CMKU	730
CFCO	630	CJCB	1240	CKOV	630	CMCG	1080	CMJA	860	CMKV	570
CFCT	1450	CJ CJ	690	CKPC	930	CMCJ	1550	CMJC	1390	CMKW	1050
CFCY	630	CJCS	1210	CKPR	580	CMCH	1050	CMJE	1230	CMKX	1190
CFGP	1310	CJGX	1430	CKRN	1370	CMCK	970	CMJF	930	CMKY	1140
CFJC	880	CJHC	1290	CKSO	780	CMCL	730	CMJH	1360	CMKZ	1430
CFLC	930	CJIC	1500	CKTB	1200	CMCM	850	CMJI	1130	CMOA	1210
CFNB	550	CJKL	560	CKUA	580	CMCO	1210	CMJK	1020	CMOX	1510
CFOS	1370	CJLS	1310	CKVD	1200	CMCQ	1410	CMJL	1330	CMQ	690
CFPL	730	CJOC	1370	CKWX	950	CMCR	1550	CMJM	870	CMRT	1580
CFPR	580	CJOR	600	CKX	1120	CMCU	1110	CMJN	610	CMW	550
CFQC	600	CJRC	630	CKY	910	CMCW	1510	CMJO	1260	CMX	880
CFRB	690	CJRM	950	CMAB	1240	CMCX	1050	CMJP	1420	CMZ	920
CFRC	1510	CKAC	730	CMAC	1030	CMCY	590	CMJW	1070	FQN	609
CFRN	960	CKBI	1210	CMAN	540	CMGE	1370	CMJX	900	HIG	900
CHAB	1200	CKCA	1420	CMAR	1400	CMGF	1120	CMK	750	HIN	1090
CHCK	1310	CKCH	1210	CMBC	780	CMGH	1190	CMKB	1350	HIT	1050

HIX	800	KDON	1210	KFJM	1410	KGDE	1200	KHJ	900	KMLB	1200
HIZ	1370	KDRO	1500	KDLR	1210	KGDM	1100	KHQ	590	KMMJ	740
H18Q	1470	KDTH	1340	KDNT	1420	KGEK	1200	KHSL	1260	KMO	1330
HOK	640	KDYL	1290	KFJZ	1240	KGER	1360	KHUB	1310	KMOX	1090
HRN	1450	KECA	780	KFKA	880	KGZE	1310	KICA	1370	KMPC	710
KABC	1420	KELA	1440	KFKU	1220	KGFF	1420	KID	1320	KMTR	570
KABR	1390	KELD	1370	KFNF	890	KGJF	1200	KIDO	1350	KMYC	1420
KADA	1200	KELO	1200	KFOR	1210	KGFL	1370	KIDW	1420	KMYR	1310
KALB	1210	KENO	1370	KFOX	1250	KGFW	1310	KIEM	1450	KNEL	1500
KALE	1300	KERN	1380	KFPL	1310	KGFX	630	KIEV	850	KNOW	1500
KANS	1210	KEUB	1420	KFPW	1370	KGGF	1010	KINY	1450	KNX	1050
KARK	890	KEVR	1370	KFPY	890	KGGM	1230	KIRO	710	KOA	830
KARM	1310	KEX	1160	KFQD	780	KGHF	1320	KIT	1250	KOAC	550
KASA	1210	KEYS	1500	KFRC	610	KGHI	1200	KITE	1530	KOAM	790
KAST	1200	KFAB	770	KFRO	1340	KGHL	780	KIUL	1210	KOB	1180
KATE	1420	KFAC	1300	KFRU	630	KGIR	1340	KIUN	1370	KOBH	1370
KAWM	1500	KFAM	1420	KFSD	600	KGIW	1420	KIUP	1370	KOCA	1210
KBIX	1500	KFAR	610	KFSG	1120	KGKL	1370	KJBS	1070	KOCY	1310
KBIZ	1210	KFBB	1280	KFUN	1420	KGKO	570	KJR	970	KOH	630
KBKR	1500	KFBC	1420	KFUO	830	KGKY	1500	KLAA	1210	KOIL	1260
KBND	1310	KFBI	1050	KFVD	1000	KGLO	1210	KLBM	1420	KOIN	940
KBPS	1420	KFBK	1490	KFVS	1370	KGLU	1420	KLCN	1290	KOKO	1370
KBST	1500	KFDA	1200	KFWB	950	KGMB	1320	KLO	1400	KOL	1270
KBTM	1200	KFDM	560	KFXD	1200	KGNC	1410	KLPM	1360	KOMA	1480
KBWD	1350	KFDY	780	KFXJ	1200	KGNF	1430	KLRA	1390	KOME	1310
KCKN	1310	KFEL	920	KFXM	1210	KGNO	1340	KLS	1280	KOMO	920
KCMC	1420	KFEQ	680	KFYO	1310	KGO	790	KLUF	1370	KONB	1500
KCMO	1450	KFGQ	1370	KFYR	550	KGU	750	KLX	880	KONO	1370
KCRC	1360	KFH	1300	KGA	1470	KGVO	1260	KLZ	560	KOOS	1200
KCRJ	1310	KFI	640	KGB	1330	KGW	620	KMA	930	KORE	1420
KDAL	1500	KFIO	1120	KGBU	900	KGY	1210	KMAC	1370	KORN	1370
KDB	1500	KFIX	1420	KGBX	1230	KHAS	1200	KMBC	950	KOTN	1500
KDFN	1440	KFJB	1200	KGCU	1240	KHBC	1200	KMED	1410	KOVC	1500
KDKA	980	KFJI	1210	KGCX	1450	KHBG	1210	KMJ	580	KOVO	1210

KOWH	660	KROC	1310	KTSM	1350	KWEW	1500	TGI	1310	WADC	1320
KOY	550	KROD	1500	KTSW	1370	KWFC	1310	TIAFB	900	WAGA	1450
KPAB	1500	KROW	930	KTUC	1370	KWFT	620	TIEMC	860	WAGE	620
KPAC	1220	KROY	1210	KTUL	1400	KWG	1200	TIEP	830	WAGF	1370
KPDN	1310	KRRV	880	KTW	1220	KWJB	1210	TIFA	1000	WAGM	1420
KPFA	1210	KRSC	1120	KUIN	1310	KWJJ	1040	TIGH	690	WAIM	1200
KPFT	1210	KSAC	580	KUJ	1370	KWK	1350	TIGPH	605	WAIR	1250
KPHO	1200	KSAL	1120	KUOA	1260	KWKH	1100	TIGPH2	1225	WAJR	1200
KPLC	1500	KSAN	1420	KUSD	890	KWLC	1270	TIHO	1030	WAKR	1530
KPLT	1500	KSCJ	1550	KUTA	1500	KWLK	1370	TILJ	775	WALA	1380
KPMC	1550	KSD	550	KVAK	1420	KWLM	1310	TILS	880	WALB	1230
KPO	680	KSEI	900	KVAN	880	KWNO	1200	TINBC	1070	WAML	1310
KPOF	880	KFSO	560	KVCV	1200	KWOC	1310	TING	750	WAOV	1420
KPPC	1210	KSL	1130	KVEC	1200	KWOS	1310	TIOS	940	WAPI	1140
KPQ	1500	KSLM	1360	KVFD	1370	KWSC	1220	TIPG	625	WAPQ	1420
KPRC	920	KSO	1430	KVGB	1370	KWTO	560	TIRCC	1200	WARD	1400
KQV	1380	KSOO	1110	KVI	570	KWYO	1370	TIRS	920	WARM	1370
KQW	1010	KSRO	1310	KVIC	1310	KXA	760	TIXD	800	WASH	1270
KRBC	1420	KSTP	1460	KVNU	1200	KXL	1420	TI4NRH	725	WATL	1370
KRBM	1420	KSUB	1310	KVOA	1260	KXO	1500	TI5CV	575	WATN	1210
KRE	1370	KSUN	1200	KVOD	630	KXOK	1250	VAS	685	WATR	1290
KRGV	1260	KTAR	620	KVOE	1500	KXOX	1210	VOCM	1040	WATW	1370
KRIC	1420	KTBS	1450	KVOL	1310	KXRO	1310	VONF	640	WAVE	940
KRIS	1330	KTEM	1370	KVOO	1140	KXYZ	1440	VOGY	840	WAWZ	1350
KRJF	1310	KTFI	1240	KVOR	1270	KYA	1230	VOAC	1065	WAYX	1200
KRKD	1120	KTHS	1060	KVOS	1200	KYAN	1370	VOAR	950	WAZL	1420
KRKO	1370	KTKC	890	KVOX	1310	KYCA	1500	VOWR	700	WBAA	890
KRLC	1390	KTMS	1220	KVRS	1370	KYOS	1040	WAAB	1410	WBAB	1200
KRLD	1040	KTOH	1500	KVSF	1310	KYSM	1500	WAAF	920	WBAL	760
KRLH	1420	KTOK	370	KVSO	1210	KYUM	1210	WAAT	940	WBAL	1060
KRMC	1370	KTRB	740	KVWC	1500	KYW	1020	WABC	860	WBAP	800
KRMD	1310	KTRH	1290	KWAL	1420	TGQ	1450	WABI	1200	WBAX	1210
KRNR	1500	KTRI	1420	KWAT	1210	TGW	1520	WABY	1370	WBBC	1400
KRNT	1320	KTSA	550	KWBG	1420	TGX	400	WACO	1420	WBBL	1210

WBBM	770	WCAT	1200	WDAF	610	WENY	1200	WGAL	1500	WHAZ	1300
WBBR	1300	WCAU	1170	WDAK	1310	WEOA	1370	WGAN	560	WHB	860
WBBZ	1200	WCAX	1200	WDAN	1500	WERC	1500	WGAR	1450	WHBB	1500
WBCM	1410	WCAZ	1070	WDAS	1370	WEST	1200	WGAU	1310	WHBC	1200
WBEN	900	WCBA	1440	WDAY	940	WESX	1200	WGBB	1210	WHBF	1240
WBHP	1200	WCBD	1080	WDBJ	930	WEVD	1310	WGBF	630	WHBI	1250
WBIG	1440	WCBI	1370	WDBO	580	WEW	760	WGBI	880	WHBL	1300
WBIR	1210	WCBM	1370	WDEF	1370	WEXL	1310	WGBR	1370	WHBQ	1370
WBLJ	1200	WCBS	1420	WDEL	1120	WFAA	800	WGCM	1210	WHBU	1210
WBLK	1370	WCBT	1200	WDEV	550	WFAM	1200	WGES	1360	WHBY	1200
WBML	1420	WCCO	810	WDGY	1180	WFAS	1210	WGGA	1210	WHCU	850
WBNS	1430	WCED	1200	WDLP	1200	WFBC	1300	WGH	1310	WHDF	1370
WBNX	1350	WCFL	970	WDMJ	1310	WFBG	1310	WGIL	1500	WHDH	830
WBNY	1370	WCHS	580	WDNC	1500	WFBL	1360	WGKV	1500	WHDL	1420
WBOC	1500	WCHV	1420	WDOD	1280	WFBM	1230	WGL	1370	WHEB	740
WBOW	1200	WCKY	1490	WDRC	1330	WFBR	1270	WGN	720	WHEC	1430
WBRB	1210	WCLE	610	WDSM	1200	WFCI	1390	WGNC	1420	WHFC	1420
WBRC	930	WCLO	1200	WDSU	1250	WFDL	1310	WGNV	1220	WHIO	1260
WBRE	1310	WCLS	1310	WDWS	1370	WFEA	1340	WGOV	1420	WHIP	1480
WBRK	1310	WCMI	1310	WDZ	1020	WFAH	1310	WGPC	1420	WHIS	1410
WBRW	1310	WCNC	1370	WEAF	660	WFIG	1310	WGR	550	WHIZ	1210
WBRY	1530	WCNW	1500	WEAN	780	WFIL	560	WGRB	1200	WHJB	620
WBT	1080	WCOA	1340	WEAU	1050	WFLA	620	WGRC	1370	WHK	1390
WBTH	1370	WCOC	880	WEBC	1290	WFMD	900	WGRM	1210	WHKC	640
WBTM	1370	WCOL	1200	WEBQ	1210	WFMJ	1420	WGST	890	WHKY	1370
WBZ	990	WDOP	1120	WEBR	1310	WFNC	1340	WGTC	1500	WHLB	1370
WBZA	990	WCOS	1370	WEDC	1210	WFOR	1370	WGTM	1310	WHLD	1260
WCAD	1220	WCOU	1210	WEED	1420	WFOY	1210	WGY	790	WHLS	1370
WCAE	1220	WCOV	1210	WEEL	590	WFPG	1420	WHA	940	WHMA	1420
WCAL	760	WCPO	1200	WEEU	830	WFTC	1200	WHAH	950	WHN	1010
WCAM	1280	WCRW	1210	WELI	930	WFTL	1370	WHAJ	1210	WHO	1000
WCAO	600	WCSC	1360	WELL	1420	WFTM	1210	WHAM	1150	WHOM	1450
WCAP	1280	WCSH	940	WEMP	1310	WFVA	1260	WHAS	820	WHOP	1200
WCAR	1100	WDAE	1220	WENR	870	WGAC	1210	WHAT	1310	WHP	1430

WHUB	1370	WJBY	1210	WKIP	1420	WMAM	570	WMWH	1420	WOV	1100
WHYN	1370	WJBW	1200	WKNY	1500	WMAN	1370	WMVA	1420	WOW	590
WIBA	1280	WJDX	1270	WMAQ	670	WMAZ	1180	WNAB	1420	WOWO	1160
WIBC	1050	WJEJ	1210	WMAS	420	WMBC	1420	WNAC	1230	WPAB	1340
WIBG	970	WJHL	1200	WKOK	1210	WMBD	1440	WNAD	1010	WPAD	1420
WIBM	1370	WJHO	1370	WKPA	1120	WMBG	350	WNAX	570	WPAR	1420
WIBU	1210	WJHP	1290	WKPT	1370	WMBH	1420	WNBC	1380	WPAT	900
WIBW	580	WJIM	1210	WKRC	550	WMBI	1080	WBNF	1500	WPAX	1210
WIBX	1200	WJJD	1130	WKST	1250	WMBO	1310	WNBH	1310	WPAY	1370
WICA	940	WJLS	1210	WKY	900	WMBR	1370	WNBX	1260	WPEN	920
WICC	600	WJMC	1210	WKZO	590	WMBS	1420	WNBZ	1290	WPIC	780
WIL	1200	WJMS	1420	WLAC	1470	WMC	780	WNEL	1290	WPID	1210
WILL	580	WJNO	1200	WLAK	1310	WMCA	570	WNEW	1250	WPRA	780
WILM	1420	WJOB	1200	WLAP	1420	WMEX	1470	WNLC	1500	WPRO	630
WIND	560	WJPF	1310	WLAV	1310	WMFD	1370	WNOE	1420	WPRP	1420
WING	1380	WJPR	1310	WLAW	680	WMFF	1310	WNOX	1010	WPTF	680
WINN	1210	WJR	750	WLB	760	WMFG	1210	WNYC	810	WQAM	560
WINS	1180	WJRD	1200	WLBC	1310	WMFJ	1420	WOAI	1190	WQAN	880
WINX	1310	WJSV	1460	WLBJ	1310	WMFR	1200	WOC	3370	WQBC	1360
WIOD	619	WJTN	1210	WLBL	900	WMGA	1370	WOCB	1210	WQDM	1390
WIP	610	WJW	1210	WLBZ	620	WMIN	1370	WOI	640	WQXR	1550
WIRE	1400	WJZ	760	WLEU	1420	WMJM	1500	WOKO	1430	WRAK	1370
WIS	560	WKAQ	1240	WLLH	1370	WMMN	890	WOL	1230	WRAL	1210
WISE	1370	WKAR	850	WLNH	1310	WMOB	1200	WOLF	1500	WRAW	1310
WISN	1120	WKAT	1500	WLOF	1200	WMOG	1500	WOLS	1200	WRBL	1200
WIZE	1310	WKBB	1500	WLOG	1200	WMPC	1200	WOMI	1500	WRC	950
WJAC	1370	WKBH	1380	WLOK	1210	WMPS	1430	WOMT	1210	WRDO	1370
WJAG	1060	WKBN	570	WLOL	1300	WMRC	1500	WOPI	1500	WRDW	1500
WJAR	890	WKBO	1200	WLPM	1420	WMRN	1500	WOR	710	WREC	600
WJAS	1290	WKBY	1500	WLS	870	WMRO	1250	WORC	1280	WREN	1220
WJAX	900	WKBW	1480	WLTH	1400	WMSD	1420	WORD	1370	WRGA	1500
WJBC	1200	WKBZ	1500	WLVA	1200	WMSL	1370	WORK	1320	WRJN	1370
WJBK	1500	WKEU	1500	WLW	700	WMT	600	WORL	920	WRNL	880
WJBO	1120	WKGA	940	WMAL	630	WMUR	610	WOSU	570	WROK	1410

WRR	1280	WSPD	1340	WTOL	1200	XEBA	1080	XEDW	1150	XEMO	860
WRUF	830	WSPR	1140	WTRC	1310	XEBC	1240	XEE	1210	XEMU	580
WRVA	1110	WSTP	1500	WTRY	950	XEBG	820	XEF	1450	XEBX	1280
WSAI	1330	WSTV	1310	WTSP	1370	XEBH	930	XEFB	870	XEN	780
WSAJ	1310	WSUI	880	WVFW	1400	XEBI	1000	XEFC	1340	XENT	990
WSAM	1200	WSUN	620	WWDC	1420	XEBJ	1340	XEFE	910	XEOA	750
WSAN	1440	WSVA	550	WWJ	920	XEBK	1080	XEFI	1440	XEON	750
WSAR	1450	WSVS	1370	WWL	850	XEBL	1220	XEFM	1160	XEOX	1230
WSAU	1370	WSYB	1500	WWNC	570	XEBO	1330	XEFO	940	XEP	1160
WSAV	1310	WSYR	570	WWNY	1270	XEBP	1150	XEFG	1010	XEPN	740
WSAY	1210	WTAD	900	WWRL	1500	XEBS	1340	XEFV	1210	XEPP	1400
WSAZ	1190	WTAG	580	WWSW	1500	XEBU	1240	XEFW	1310	XEQ	730
WSB	740	WTAL	1310	WWVA	1160	XEBW	1340	XEG	1230	XEQK	1500
WSBC	1210	WTAM	1070	WXYZ	1240	XEBX	640	XEH	740	XERA	840
WSBT	1360	WTAQ	1330	W8XO	700	XEBZ	810	XEHK	1230	XERB	1090
WSFA	1410	WTAR	780	XEA	1400	XEC	1150	XEHR	1230	XERC	830
WSGN	1310	WTAW	1120	XEAA	750	XECA	1230	XEI	1370	XERH	1430
WSIX	1210	WTAX	1210	XEAC	980	XECH	1490	XEJ	1020	XERK	1450
WSJS	1310	WTBO	800	XEAD	1240	XECL	1110	XEJP	1130	XES	990
WSKB	1200	WTCM	1370	XEAF	1000	XECW	1240	XEJR	1490	XESM	1270
WSLB	1370	WTCN	1250	XEAG	1310	XECZ	1370	XEK	1000	XET	690
WSLI	1420	WTEL	1310	XEAI	1250	XED	1160	XEKL	1240	XETB	1310
WSLS	1500	WTHT	1200	XEAJ	1400	XEDA	1220	XEKR	1280	XEU	1010
WSM	650	WTIC	1040	XEAM	750	XEDE	1400	XEKS	1240	XEW	890
WSMB	1320	WTJS	1310	XEAO	660	XEDF	810	XEL	1150	XEWE	720
WSNJ	1210	WTMA	1210	XEAP	1340	XEDH	1340	XELK	1230	XEX	1310
WSOC	1210	WTMC	1500	XEAS	1160	XEDJ	1450	XELO	670	XEXB	1270
WSOO	1200	WTMJ	620	XEAT	1210	XEDL	1240	XELW	1340	XEXE	1270
WSOY	1310	WTMV	1500	XEAU	1400	XEDP	1080	XELZ	1370	XEXH	1150
WSPA	920	WTNJ	1280	XEAW	960	XEDR	1490	XEM	1390	XEXX	1170
WSPB	1420	WTOC	1260	XEB	1030	XEDS	1400	XEME	1240	XEY	1450

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RADEXING . .

(Continued from page 10)

on the time—though it may sound a bit unusual! (T. E. Smith, Orlando, Fla.)

T. P. Topics

Japan: A station on 870 kcs. heard from 5-5:30 a.m. with a weak signal. It faded completely several times and was unable to identify anything but the oriental language. (Edward Laudansky, Dorchester, Mass.)

New Zealand: 1YA in Auckland was heard on the morning of January 26th with good signals. (George Wetherill.)

Thanks to every Radexer helping compile this month's news and get going on those RADEX Contest verities! It will be appreciated if you will report on one side of a sheet of paper only and kindly enclose stamp if you require an answer to your letter. Otherwise it will be acknowledged in this column.

Quick Index

The 1940 issues of RADEX may be purchased for the regular price of 25c each. A quick index of features which have appeared in RADEX this year follows:

- 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.
- Julg-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.

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