

RADIO IN DEX

The All-Wave Radio Log Authority

NSE

No. 134

DECEMBER, 1939

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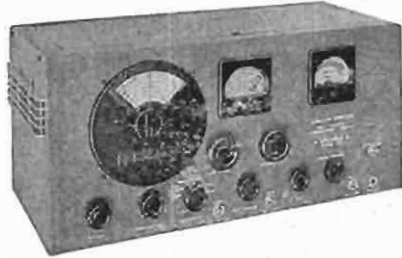


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SIXTEENTH YEAR

DECEMBER 1, 1939

No. 134

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WRITE ADDITIONAL NAMES AND ADDRESSES ON SEPARATE SHEET

HAM HOUNDING

• • • By HUGH HUNTEM

At present we are in a very peculiar period as far as radio listening is concerned. Propaganda is being dispersed by the bushel and new frequencies are being used so fast by foreign stations that it is almost impossible for any radio log to keep up with them.

The ham bands have been affected materially, too, by changed world conditions. As we go to press, amateur radio stations of these countries are off the air: England, Scotland, Northern Ireland, Wales, Poland, Germany, Belgium, Czechoslovakia (or what is left of it), Danzig, Switzerland, Yugoslavia, Cuba, Canada, British West Indies, Australia, New Zealand, France, Netherlands, Curacao, and Dutch East Indies.

Even as we write this, a South African ham is bidding goodbye to some of his friends.

XE1AC has called upon all hams in South and Central America to work on the 80-meter band, where there is plenty of room for all of them. At the same time, phone stations from the Latin countries are being heard with increased regularity on the 40-meter band, drowning out, in some cases, the CW signals of U. S. hams.

C. J. Fern, Jr. of Lihue, Hawaii, declares that because of so many bans, nothing much of DX is coming through. He is going to concentrate now on the 160 and five-meter bands and attempt to tune some catches there.

"Five meters is where listeners are really needed," he writes. "Conditions must be observed and recorded to pave the way for possible reliable long-distance communication."

That's the picture, fans. There are possibilities on every band, especially with five and ten meters reaching peaks this month and next.

How many DX listeners log the CW stations? The DX is there, all right, and it takes only a little practice to read the CQ's and calls, since the latter are repeated so many times in a CQ.

Our first amateur in this month's personality parade is a CW ham. CM2OP in Havana, Cuba. One of the most active hams in the island; Mario de la Torre is section communications manager for the American Radio Relay League.



This K5AG amateur card is printed in brown, red, black and yellow, and is 3½ by 8½ inches in size. (Courtesy of Wallace Howe).

He came on the air when he was 10 years old, in 1931. He has two QTH's. In the summer he moves the rig to his father's country home about six miles south of Havana. Since his dad's hobby is meteorology, they both listen to the daily weather reports and are active in time of storms and hurricanes.

CM2OP has WAS, and has worked 75 countries. He's still looking for Asia for his WAC, and when the ban in Cuba has been lifted, will go to work for that Far Eastern catch.

G2UF—On Harold Bailey's QSL card, printed here, is the word "Television," appearing just under his call letters. The reason for that word is that Harold is very much interested in transmission of pictures by radio, and operated one of the first television theaters in the world back in 1934 at Blackpool, England.

He also is the writer of a small booklet entitled "A Brief Survey of Television," which appeared at about the same time. He says that he was operating on 30 lines in the Blackpool theater, and sent along a picture of the antenna and apparatus used.

He has been operating an amateur station since 1919, when the old 1000-meter band was used. Afterwards, Harold recalls, they were pushed down to 400 meters.

"In those days there was very little QRM," he reminisced, "and it was surprising the reports that were received over fairly long distances on crystal sets."

HH2MC—The operator of this Haiti station is the chief of the department of public works of the Haitian government, Emile Cadet.

He says that there are about 17 stations on the island, seven of these be-

longing to the army. Five of those left are on CW (HH3L, HH5PA, HH4AS, HH2ES, and HH2MC). Even some of these are on phone, including HH2MC and HH5PA. Then, those left in the Callbook are on phone, distributed on the various bands.

Emile has worked 99 countries, has sent cards for WBE, BERTA, WAC, and WAS. Most of his SWL reports come from Germany, and he QSL's 100 percent. He is married and has two junior operators. His QRA: Radio HH2MC, Port-au-Prince, Haiti.

ZL3KX—G. W. Heslop, operator of ZL3KX, paints an inviting picture of New Zealand for the traveler. Many visitors come to New Zealand every year, he writes, to see the world famous Waitomo Caves, Thermal Regions of Rotorna with their hot water springs, pools of boiling mud and geysers, the glaciers at Mount Cook in the snow clad Southern Alps, and the Cold Lakes of the South.

Gwynn, who was licensed in 1936, operates on 80-meter phone and CW, 40-meter CW, and 20-meter phone and CW. He says that most of his spare time is spent in QSO's with hams all over the world.

He states that unlimited operation is allowed ZL hams except on 20 meters, where phone amateurs may operate only from midnight to 7 a.m. each day. Gwynn will QSL all reports for return postage, and his novel card, shown here, is worth the effort to log him.

Two Suspended

Hams are being warned to watch the law regarding station operation. The Federal Communications Commission is clamping down on violators, especially because of European disturbances.

W3SFU, Pottstown, Pa., and WIDIF, Wales, Mass., were both suspended for six months by the FCC, the former for communicating with an unlicensed station and the latter for permitting an unlicensed operator to operate his station and failing to keep an accurate station log.

George J. Eder, R811, of Philadelphia, "ham" editor of GCDXC and the WDXA, sends in his picture and some dope about his listening post.

He has just heard his third Hungarian on 20-meter phone, HA3B, fourth from Alaska, K7GSC, and E5SD for the second time. Although once a BCB DXer, he now devotes his time to the ham bands.

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He has heard 79 countries on 20-meter phone, and since 1935 has heard a total of 1157 phone station outside of the United States. Now he is trying to QSL all states on 10 and 75-meter phone.

John Varga, 4758 West End Ave., Chicago, will send amateurs' addresses to anyone writing to him and enclosing a self-addressed stamped envelope with paper or a stamped post-card. For U. S. amateurs he will give only one to a district unless the person requesting the addresses lives outside of the U. S.

John would also like to know where he can get some SWL cards printed. One place that we know of is Hinds & Edgerton, 19 S. Wells St., Chicago, Ill.

Who's on the air? Because most of our readers indicate that listing the catches by countries is preferred, we'll start right off and list them that way. Cliff Tavener, of Rosenberg, Texas, wants to know if PK's and KA's should be counted as under Oceania or Asia. Radex lists them both as Oceania.

ALASKA—K7HCX is being heard lately on 20 meter phone. His name is Whitney Lewis, and he lives in Fairbanks, almost on the Arctic Circle.

ARGENTINA—LU1QA, LU5EZ, and LU7AY are being heard regularly. LU2BC, heard on both 10 and 20 meters will QSL.

BELGIAN CONGO—LeRoy Waite, Balston, N. Y., reports that OQ5AB in Elisabethville is the outstanding foreign phone on the 10-meter band between 12 to 1 p.m. OQ5AD is also heard on 10 meters. This African country should be easy to log since OQ5AA (14070), OQ5AE (14400), and OQ5RT (14040) are all on 20 meter phone and well-received when the band is open.

BOLIVIA—CP1BA, the outstanding Bolivian phone, is heard on a frequency

The rig and novel QSL card of Jose M. Sierra, one of the two amateurs in Tangier, International Zone, North Africa. His signals are heard QSAs, R9 in the United States.



of 14055 megs. His name and QRA: Jose Camacho B., Grau 19, Casilla de Correo 15, Sucre.

BRAZIL—PY7QB is a new station. He is Jose Bezerra Marinho, Rua 13 de Maio 616, Natal, Estado de Rio Grande do Norte. PY2MI and PY1AZ are being heard on 10 meters.

BULGARIA—Australian hams were told before hostilities in Europe started to send QSL's for Bulgaria in care of HB9CE, Swiss Shortwave Radio, Zurich, Badenerstr, 68, Switzerland. That still may be in effect even though Swiss stations are off the air.

BURMA—Try for XZ2BH, M. Kyaw Min, Indian Civil Service, Premier's Secretary, Secretariat, Rangoon. He's been heard in the United States on 20-meter phone.

CHILE—Here are some frequencies: CE1AH, 14010; CE3CG, 14020; and CE1BC, 14040. CE1AS has been heard

on 20, while CE3CZ is usually heard on 10 meters.

CHINA—Here are some more XU's heard in the United States. Don't forget that these hams are heard best around 7 a.m. in the morning with a north and south antenna. XU8ZA on 14070 was heard by LeRoy Waite. XU1B is being heard. For you CW listeners, XU2JR is coming through.

COSTA RICA—T14JG seems to be the TI newcomer. Many report him on 14060 phone. T14AC is the sister station of T14NRH, operated by Amando Cespedes, Jr., and Lydilia Cespedes on 14.052 megs.

CURACAO—PJ5EE says that there are five active hams in Curacao. Two of the others are PJ1BV and PJ3CO. But NEVER send cards directly to any of the five, he warns, because hams there are banned. He advises that QSL's should be sent through the American Radio Relay League.

DENMARK—OZ7HL is being heard on 14.125 megs. He is H. W. Larsen, Maagevej 31, 1, Copenhagen N., Denmark.

ESTONIA—Since the major European stations are off the air the rigs of smaller countries are pushing signals through into the U. S. ES5D used to be the only one heard from Estonia. Now ES5C (14.355) and ES4G (14.080) are being heard, ES5C on CW.

GIBRALTAR—Jack Wells, Phenix, Alabama, reports that ZB2B QSL's with a neat, white card with a small, red call and picture of a tiny castle. Power is only 20 watts. Station is operated by a group of Royal Signal Corps officers.

HUNGARY—HA1K, HA8Q, and HA3B are being heard quite often from another country where hams are getting a break by the amateur radio bans. Too, since there are several hams in Hungary, we are expecting reports to roll in telling of others heard over here. HA1K is being heard on the high frequency end of the band. QRA: Post Recherche Station, Gyalı ut. 22, Budapest IX. Bill Wells, Hamilton, Ont. logged him. HA3B (14090), logged by LeRoy Waite, is Joseph Boer, Millenium-sor 1, Nagymaros. HA8Q (14.045) is Janos Gelle, Kiraly utca 72, Ujpest.

INDIA—A fine catch on 20 meter phone is VU2FA, who says that he is only 100 miles from Tibet. He is Major J. N. Atkinson, R.A.M.C., "The Ridge," Kasauli, Simla Hills

ITALY—IITKM is still on the air on about 14020 megs. IIMZ has also been reported on 14.084 megs.

JAPAN—With DX picking up more and more Japanese stations are being logged by our early-rising DXers. J5CW is being heard on 14.060. Others logged are J7CR (14.009), J7CB (14.110), and J8CI (14.105).

JAVA—Jack Wells says that since PK6XX has gone off the air, PK3WI at Lawang is the most consistent signal in his district from Java. He QSL's very promptly with a tan-colored QSL with large brown call-letters. His frequency is 14.050. On 20 meter phone PK2AY (14.030) and PK2LZ are also pounding in.

LIBERIA—James Kavanaugh, Indiana observer for R and T reports EL7AS, the only report we have heard in the United States of this station.

LITHUANIA—LY1J, in Kaunas, logged by many, QSL's promptly with a beautiful, multi-colored card showing the Liberty Monument of Lithuania, reports Jack Wells. LY1AH is being logged on 14.385 megs. He is on CW.

MADAGASCAR—FB8AA still remains the outstanding phone in this country and he is being heard on 10 meters. The QRA: Roger Luzet, Tsaralalana, Tananarive.

MANCHUKUO—The QRA of MX3A is given as H. Matsui, via MX3H QSL Bureau, P.O. Box 30, Shinkyō, Manchukuo.

MEXICO—We wonder how many heard a station on the low frequency end of the 20-meter band recently giving the call as X14, experimental station. We heard him about 10:30 p.m., EST, calling T14AC. XE1CQ and XE2FC are being heard on 10 meters. Robert W. May of Rome, Ga. reports X14 as a Cuban.

NICARAGUA—Don Reukauf (R1295), Sheldon Shallon, and Merton T. Meade all inform me that both YN1IP and YN3DG QSL. YN1IP requires no postage, says Sheldon, and YN3DG requires a dime for his veri. YN1HS, YN1OP, YN1PR, and YN2LT are indifferent QSL-ers, says Merton. YN1FS is a new station, heard in a QSO asking that cards to him be sent via YN1OP. YN1FF also logged on 20 phone.

NIGERIA—LeRoy Waite has a letter which clears up the status of ZD2H and ZD4AB, the latter in the Gold Coast. It is from Art Tomlinson, op of ZD2H, and says, in part: "I think someone is pirat-

ing my call on phone. I've never yet used phone. I've had several listener reports giving details of phone QSO's originating from ZD2H. These come mostly from W which leads one to assume that the bootlegger may be located somewhere in America. ZD4AB used phone on rare occasions but he is home in England on vacation and is not due back in the Gold Coast until the latter part of November. He is a confirmed CW merchant but perhaps may bring sufficient gear back with him to put out a spot of phone."

NORWAY—LA8J is being heard on 14.120 megs. He is Karl Reime Sivertsen, Langgt. 46, Sandnes. Other Norwegians should be logged unless a ban is imposed, since there are quite a few LA stations.

OCEAN ISLAND—VR4AD has been transferred to Ocean Island from Solomon Island and is probably now on the air with a VR1 call, although we do not know as yet what the call is.

PHILIPPINES—"KA1FH in Manila has one of the most attractive and unusual QSL cards I've yet seen," writes Jack Wells. "It is in the shape of a parallelogram, picturing a native sailboat with the call in white letters on the sail. Colors are green, blue, and red."

KA1CS, KA1AP, and KA1LZ have been logged recently. We've written optimistically to 1CS, 1FH, 1HR, and even to 1ME who is supposed to QSL, have sent enough postage, but still have been unable to get the KA boys to QSL. Maybe we haven't used the right approach since we understand that many of them DO QSL. KA1HR's new QTH: Major Simpson, Ft. McKinley, Rizal.

ROUMANIA—YR5VV has been logged clear up on 14.400 megs., right on the edge of the 14-megacycle phone band.

SAMOA—KH6KKR may be logged on 14.350 megs., and we think he probably is on CW.

SOUTH AFRICA—As we stated earlier, these stations may now be closed. They have been logged nicely on 10 meters, especially 5BZ, 5Q, 6DY, 6FD, 6W, 5T, 4AA, and 2AH. ZS6EG, 5CL, and 5BE were logged on 20 phone. ZS1DE is on CW but it would be nice to get that card. The station is operated by an XYL, Mrs. E. Burger, 115 Main Ave., De Aar.

SPAIN—At last, Jack Wells furnishes us with the QRA of EA7BA, who verifies with a plain QSL with blue letters. It is: Jose Maria Gil Guerra, Sagastas Num. 33, Cadiz, Spain.

SWEDEN—Here are three SM stations pounding through: SM7NU, 14.050 megs.; SM6WE, 14.260 megs.; and SM6VX, 14.095.

UGANDA—The QRA of VQ5WES, heard on 20 meters, is Box 81, Kampala, Uganda.

VATICAN CITY—The first ham ever logged in this small territory in the heart of Rome is HV1A on about 14.000 megs.

That's all, the news we have this month, but with the bands opening up we should have more next issue. May be again remind all of you to send in your reports? They will be welcome.

CHATTER: Merton T. Meade, Kansas City, keeps a list of those stations who QSL for SWL's and also a list of those who don't and who are indifferent. . . . but he has no reports on whether our ZE1X does or does not QSL. . . . Alton L. Caldwell, Jr., of Brockton, Mass. hears DX through a receiver using a 56 triode super-regenerative detector, 2A5 pentode audio amplifier, with about 180 volts on final plates. . . . W1ELL of Malden, Mass., has become a member of Radex Club (R1312). He operates on 3.5 and 7-meg. CW mostly and always QSL's for SWL's and hams. His name is Lester Balcom. Welcome to our midst, Les. . . . Radex converted Robert Atwood, of Washington, D. C., from an occasional DXer into an ardent fan. He's Member R1355 now. His log stands at 24 countries on 20 meter phone. . . . Carl E. Sylvester, R36, uses a 6-tube Zenith with a 145-ft. inverted L antenna to log his DX. . . . George Poulain has almost despaired of getting QSL's from UIBW and IITKM. . . . Cliff Tavener is strictly an amateur band listener and has VAC six times with 53 countries verified on 20 meters.

A subscription to RADEX will not only save you money, but will insure regular delivery of your magazine direct to your home each month. Use the subscription blank on page 96.

CUBAN CHANGES

Some very recent changes in broadcasting station data have been forwarded to us by Wm. Cunningham of Pasadena, Calif. These changes do not appear in this month's indices, nor in the Month's Changes column as they were received after those sections had been prepared. All these changes are official.

New Stations—CMAR, Pinar del Rio, 1400 kcs., 200 watts. CMKY, Santiago, 960 kcs., 5 kw. CMZ, Havana, Constitutional Army, 920 kcs., 5 kw. New one kilowatt stations with no call letters assigned are under construction in Santa Clara (570 kcs), Jovellanos (670 kcs), Camaguey (710 kcs), Victoria Tunas (730 kcs), Guanatanamo (740 kcs), Ciego de Avila (870 kcs), Pinar del Rio (990 kcs), Santiago (1030 kcs), Matanzas (1040 kcs), and Holguin (1150 kcs).

Changes—CMKX has moved to Banes. CMGH to 710 kcs. CMHO to 1020 kcs. CMJX to 660 kcs. CMJI to 1130 kcs. CMJK, to 1020 kcs. CMKW to 1030 kcs with 1 kw. CMKG to 1000 kcs with 10 kw. CMW to 2500 watts. CMBC and CMBL to 5 kw.

Club Notes

The DXers International Exchange Club features in their monthly bulletin "QSA5", a popular article, "Country of the Month" which includes all the shortwave stations in one particular country, giving call letters, frequencies, location, schedules, slogans and other data, designed to be helpful to listeners. A sample copy of "QSA5" may be secured from DXIEC headquarters at P. O. Box 808, Dryden, Washington.

The All Wave Club of Lancaster, Calif., publishes a monthly bulletin, "The All Wave DXer," a sample copy of which may be obtained for a nickle from David Herbert, Jr., Box 709, Lancaster, California.

Letter From a Night Owl

Joe Becker, Sr.,
Hamilton, Ohio

Here is a description of the old Hamilton Night Owl and some of my DX activities.

The first station I ever wrote to was WFDV in Rome, Ga., in the latter part of February 1930. The manager of the station wrote me such a nice letter of verification that I became much interested in DX. Since that time I have heard 1244 stations on the broadcast band and I have 1234 of these verified from all parts of the world. I have 108 Canadians, 70 Cubans, 58 Mexicans, 11 South Americans and 26 other countries verified. I rarely miss a morning in which I fail to get up at 2:30 am to DX.

My greatest thrill was in logging TJW, at that time a 7½ watter, in Hamilton, Bermuda. Other DX thrills were CMBR, 15 watts, in Havana, Cuba, and CKMO, a 50 watter in British Columbia.

With radio station and SWL cards I must have a total of over 5000 now, and I would not part with any of them as they represent a lot of patience, perserverance and persistence.

Since December of 1934, I have heard WPAX in Thomasville, Ga., on 54 of their frequency checks, and I have also sent WGAU in Athens, Ga., 26 reports on consecutive Sunday morning programs. I have heard selections dedicated to me from over 250 different radio stations.

My DX motto is "Hear America First," and it is a fact that I would rather hear a new call in the USA than an Aussie or a Zedder. In fact, I get up too late to hear the trans-Atlantic stations, and go back to bed too early to hear the trans-Pacifics. I usually DX from 2:30 am until 4:05 am.

I use an 8 tube Atwater Kent with an aerial 90 feet long, 35 feet high, pointing east and west.

In my opinion, DXing is the King of Hobbies, and the Hobby of Kings.

ACROSS the EDITOR'S DESK

Readers are requested to mention the make of radio, the number of tubes used, and the type of aerial when sending reports. This information greatly increases the value of reports appearing in RADEX.

Dr. Harlan T. Stetson of the Massachusetts Institute of Technology has found that the moon's phases influence reception of radio signals. His investigations disclose that radio signals are at their peak three days before the full moon. For Dxers who are interested, the moon's phases during December will be: Last Quarter, 3rd. New Moon, 10th; First Quarter, 18th; Full Moon, 26th.

Radio stations, like a great many other things, come and go. Usually with very little advance notice, a new station is announced, and generally a station's demise comes quickly with little warning. Outstanding exception to this general course of events, however, is the announcement of a new station for New York City, which will replace WPG and WBIL.

For at least a couple years, perhaps longer, there has been talk of a new station on 1100 kilocycles which will operate full time, absorbing the time of WPG and WBIL. There was some talk that the Columbia Broadcasting System was seeking a second outlet for the New York Area and full time facilities could be obtained only through the deletion of the present part time stations on 1100. The new licensee, however, is the Greater New York Broadcasting Corporation. The station will employ 5000 watts power, full time, and WPG-WBIL will continue operating, of course, until the new station is ready to take the air. In addition to the two stations which share time on 1100, station WOV on 1130 will also cease operating when the new station is ready.

Moral—Get your WPG, WBIL and WOV verifications early, if you do not already have them.

For nearly an entire season, we listed a station WHAL in Saginaw,



Mickey Mouse peeps around the corner of the dope chart in the QSL of Harold Bailey, of Denton, Manchester. A little bear is "fishing for you."

Michigan on 950 kilocycles. This station was granted a construction permit but the construction failed to materialize and WHAL's application was retired, by the FCC, to the hearing docket on December 15, 1938. Now we are pleased to announce that the licensees have been granted another permit for the same facilities, 950 kilocycles, 500 watts power, daytime only. The licensees are Gross and Shields. Our guess is that the call letters WHAL will be re-issued.

Saginaw, lacking a radio station of her own all these years, now gets her stations in bunches. In addition to the reinstatement of WHAL, another new station has been granted a construction permit, to operate on 1200 kcs, 100 watts nights, 250 watts daytime, with specified hours of operation.

The Ford Sunday Evening Hour has gone Mexican. Authority has been granted to the Columbia Broadcasting System to transmit this program from Detroit, through KTSA in San Antonio, to the following Mexican broadcasters: XEQ and XEQQ in Mexico City; XET and XETT in Monterrey; XECZ in San Luis Potosi; XES in Tampico; XED and XEDD in Guadalajara; XEU in Veracruz; and XEME in Merida. We have often wondered why Mexico was

not represented on our major networks. Some network programs are now broadcast regularly from Canadian, Hawaiian and Cuban stations, and perhaps this Ford program heralds the beginning of regular network broadcasts from this country over the Mexican stations.

There was a time, not so long ago, when the Daventry stations were the only major shortwave stations of the world which did not have foreign language announcements. Only very recently they started using Arabic, Spanish and Portuguese, but since September 3, the Daventry foreign language list looks almost as long as the Moscow lists used to look. To serve the "citizens of the Empire," Daventry now employs Afrikaans, Arabic, Czech, French, German, Greek, Italian, Magyar, Polish, Portuguese, Romanian, Serbo-Croat and Spanish.

No doubt most of our readers are familiar with the regulation which prohibits the divulgence of any private message heard from a radio station. This rule applies to point-to-point stations, which are stations licensed to work with certain other specified stations, and most of the messages they handle are privately addressed correspondence. This means that telegrams or radiograms broadcast from one radio station to another, regardless of where the stations are located, are private matter, the exclusive property of the sender and the receiver. In most countries radio listeners are forbidden to listen to such stations; in this country, we can listen if we wish, but we cannot divulge anything we hear. The rule also applies to the trans-Atlantic and trans-Pacific telephone stations or any other telephone stations, or ship-to-shore or shore-to-ship stations. Furthermore, broadcast material transmitted by commercial stations for pick up and re-broadcast from some remote point, are "private correspondence." An example of material of this sort would be NBC or CBS pro-

grams broadcast by a commercial station in California for pick-up and re-broadcast over NBC or CBS affiliates in Hawaii.

A radio station in New York forgot this rather important international regulation recently, and divulged the contents of some English and German broadcasts of "secret orders" to their warships, as a result of which the station was given five days in which to show cause why their license should not be revoked. Since the circumstances were rather unusual the station has been allowed to continue broadcasting, but they came as close to deletion as it is possible for a station to come without actually being deleted, and received one of the stiffest reprimands ever handed down by the FCC.

Moral—Listen if you wish, but don't tell what you hear.

It looks like our west coast editor started something when he asked the boys and girls which was the smallest city having a radio station. Many answers have come in, hardly any of them being in agreement. Rud Anderson says that if the new station is granted for Ely, Nevada, that Ely will easily run off with the honor. There seems to be no doubt, however, that Paterson, N. J., is the largest city without a station. Being situated right in the New York City area, and surrounded by the transmitters of New York stations, it is doubtful if Paterson will have a station of its own. The closest station to Paterson is WABC, which is in Wayne Township, New Jersey, right in Paterson's back yard. Not far away, visible from the hills to west of Paterson, are WBIL, in Kearney, WINS in Carlstadt, WNEW in Carlstadt, WOV in Secaucus.

Regardless of what part of the country you live in, you can hear foreign stations on the broadcast band of your radio set, if, of course, your set is operating at peak efficiency and is provided with a very good aerial. If you live on the west coast, you may

find some Japanese or Australian stations easier to hear than some of our own eastern stations. If you live in the east, you may find Hawaiian stations easier to log than some of the middle western or western stations. If you have not yet tried long distance broadcast band reception, read Ray La Rocque's and Anthony Tarr's columns in this issue of RADEX, then give your dials a twirl, and let us know what you get. Remember, though, "If at first you don't succeed, try, try again."



The Radex Club now numbers 1361 members, in all the states except Nevada, and in 27 countries. The states shown in solid black on the map at the head of this column have at least five members, while the blank states (except Nevada) have two, three or four members.

The Radex Club has members in every state except Nevada. Following is a list of the first member enrolled in each of the states, with a few territories also included.

Alabama, Allen A. Johnson, Birmingham
 Alaska, L. Frank Nash, Fairbanks
 Arizona, John A. Ranta, Bisbee
 Arkansas, W. H. Miller, Little Rock
 California, Norman Kinsley, Hermosa Beach
 Colorado, R. J. Kavalec, Denver
 Connecticut, Fred Burleigh, Meriden
 Delaware, Harry Shreffler, Wilmington
 District of Columbia, Charles S. Greenwood, Washington

Florida, Fred L. Hinkley, St. Petersburg
 Georgia, Roy H. Duggan, Sandersville
 Hawaii, A. R. Tinker, Honolulu
 Idaho, Roy Smith, Craigmont
 Illinois, Donald S. Barnes, Chicago
 Indiana, James R. Thomas, Indianapolis
 Iowa, S. H. Lawrence, Anamosa
 Kansas, W. F. Stober, Neodesha
 Kentucky, Leroy Sleeper, Fort Knox
 Louisiana, Lorin L. Bedell, New Orleans
 Maine, D. T. Willard, Portland
 Maryland, C. M. Falconer, Baltimore
 Massachusetts, Charles Leboeuf, Webster
 Michigan, Carl E. Sylvester, Cumbiaville
 Minnesota, F. M. Fiske, St. Paul
 Mississippi, D. W. Mosby, Columbus
 Missouri, Walter V. Scholz II, Webster Groves
 Montana, John Picard, Butte
 Nebraska, Donald Hill, Broken Bow
 Nevada: Who will it be?
 New Hampshire, Harry Hawkins, Manchester
 New Jersey, Mrs. F. W. Reitz, Neptune
 New Mexico, H. B. Custer, Animas
 New York, W. M. Pettis, Ardsley-on-Hudson
 North Carolina, Howard Marmon, Pineola
 North Dakota, O. Ingmar Oleson, Ambrose
 Ohio, Theodore Johnson, Youngstown
 Oklahoma, F. B. Long, Tulsa
 Oregon, M. Kasper, Portland
 Pennsylvania, A. M. Hankins, Latrobe
 Philippines, Benton Holmes, Bacalod
 Rhode Island, Robert Orpen, Providence
 South Carolina, Dr. F. H. Pollard, Clemson College
 South Dakota, Ebert Berg, Baltic
 Tennessee, Ray Likeley, Memphis
 Texas, Sam Graham, Panhandle
 Utah, Sgt. A. W. Brummond, Ft. Douglas

IS RADIO HERE TO STAY?

● Use of Ultra High Frequencies is no passing fad either.
 ● Avail yourself of a UHF band on your receiver. Stations are increasing in number.
 ● If your receiver hasn't this band, you can obtain a guaranteed UHF converter for any all-wave superheterodyne radio, complete, tested, and postpaid for only 50c. No wiring changes are necessary. Not a diagram included from Princeton Radio, Dept. C, 15889 Princeton, Detroit, Mich.

Vermont, C. M. King, Island Pond
 Virginia, Richard F. Harrison, Belvoir
 Washington, Cecilia Huntoon, Wenta-
 tchee
 West Virginia, Wm. J. Beury, Algoma
 Wisconsin, Paul L. King, Madison
 Wyoming, D. H. Shotliff, Cheyenne

Membership in the Radex Club is available to anyone who is interested in DXing. There is no charge, and no obligation. Whether you are a subscriber or a newsstand reader, you can become a member of this club simply by making application on a postal card.


VIRGINIA—The newest Chapter is The Virginia Chapter of The Radex Club, formed by Harold Tear and seven other members living in The Old Dominion. The aims of the Chapter, as outlined by Mr. Tear, are, To better acquaint Virginia members; To exchange tips and DX news among Virginia members; To conduct a DX Contest for Virginia DXers and to find out the Champion Dial Twister of The Old Dominion, to whom a prize will be given; No dues will be charged by this Chap-

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\$1.25

ter; And to arrange a time and place convenient for members to meet and talk shop, to have a banquet, and to visit the radio stations.

This comprehensive program should appeal to all DXers living in Virginia, and Mr. Tear, we are sure, will welcome letters from anyone in his state who wishes to become a member. The address is Harold Tear, 1317 Thomas Ave., Roanoke, Va.

The Virginia Chapter issues a bulletin called "The Vertical Radiator," full of DX news of interest to all Virginia DXers. Issued once a month now, but will soon become a bi-monthly.

Watch the DX Calendar for dates of chapter meetings, and if you live near one of the chapters, attend a meeting and meet your fellow DXers.

NOTICE—The advertisement on this page is printed upside down at the request of the advertiser.

TIME CONVERTER

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan could have around. Just a twirl of the dial shows the correct time at any location in the world. No calculation is necessary; the dial does all the work. The price is only **25c**

You Can't Get Along Without It.

The Radex Publishing Co., 362 Cedar Lane, Teaneck, N. J.

DXer's Picture Gallery



The SWL card of the month is this one from Angelo Rosa of New York City. It is printed on a blue card, in raised letters in brownish, plum-colored ink.



For ten years Wm. O'Connell of Torrington, Conn. has been a DXer. He has heard 800 broadcast band stations on 5 continents, and has verified all continents on 20 meter amateur phone. His six VAC plaques from The Radex Club are shown in the frame above his receiver.



A DXer since 1920, and an amateur SWL since 1935 is the record of George Eder of Philadelphia, amateur editor of the WDXA and GCDXC. George has heard 79 countries, heard all continents and heard all states. Four of his VAC plaques are shown in the picture, above the map.



Radex Club members. From left to right are the editor of RADEX, Robert Blanchard of Brooklyn, Merlin Steen of Decorah, Iowa, and John DeRosa of Brooklyn.



The new General Electric frequency modulated receiver.

FREQUENCY - MODULATION RADIO RECEIVERS PRESENTED BY GENERAL ELECTRIC

The first frequency modulation radio receivers designed for sale to the public have been announced by the General Electric radio and television department, Bridgeport, Conn., and are now being shown in New York and New England, only sections of the country to date in which there are transmitters and broadcasting stations utilizing the new system developed by Major E. H. Armstrong. Three models are now available, two of them equipped to receive only frequency modulation broadcasts, and a third which also combines three-band radio reception of the conventional type.

Outstanding characteristic of the new receivers, so far as the public is concerned, is their ability to recreate music and voice to an astonishingly lifelike degree, with an almost complete absence of static and interference. The individual instruments of a symphony orchestra which ordinarily defy reproduction, such as the tambourine, cymbal, and triangle, can be made to emerge with clarity. G-E engineers have been engaged in the development of frequency modulation receivers for the public for more than two years, and the ones just announced have undergone rigid testing.

The new model HM-136 makes available standard American broadcasts, foreign and domestic short-wave stations, and those transmitters of the frequency modulation type now in operation. A television audio and phonograph key automatically permits the listener to enjoy television sound programs and can be used in conjunction with a television picture receiver, thus tying in the other major development of the year in a single instrument. Eleven feathertouch tuning keys are provided for standard broadcast stations.

The tuning range of this receiver, for frequency modulation, is 39 to 44 megas.; for short-wave, 7500 to 22,000 kcs.; for police-amateur, 2400 to 7500 kcs., and for standard broadcasts, 540 to 1600 kcs. Additional features are a multi-vision sliderule dial, floodlighted station finder, drift-proof station setting, tone monitor circuit, automatic tone compensation and volume control. It has 20 watts output, uses 13 tubes.

The models HM-80 and HM-85, a table model and console respectively, make available only frequency modulation reception and have identical chassis construction, although with different cabinets. A four-position tone selector, 6½-inch dynapower speaker, and other features such as the sliderule dial and tone monitor circuit are included. Eight tubes are employed in these sets, which have five watts output. They are equipped with terminal connections to a public address system, and have television audio or phonograph control.

There are currently three broadcasting stations operating on the frequently modulation system—two in New England and Major Armstrong's original transmitter at Alpine, N. J., near New York City. This fact temporarily limits the markets in which frequency modulation receivers can be sold, as in the case of television. The transmitters have a range of approximately a hundred miles, or twice that of television transmitters

of equal power. The Alpine station, in the New York metropolitan area, rebroadcasts the radio programs of WQXR at the present time. Daily half-hour programs are broadcast—every hour on the hour, from 11 A.M. to 4 P.M., and after 4 P.M. the program is continuous until 11 P.M.

In the conventional system of radio broadcasting, the sound is impressed on the radio frequency—commonly called the carrier frequency—by a system of modulation called "amplitude modulation." The carrier wave is varied in intensity in conformity with the sound made in the broadcast studio. There are certain practical limitations, according to Dr. W. R. G. Baker, manager of the G-E radio and television department, which prevent the transmission of true high fidelity programs, or programs covering an audio frequency range up to 15,000 cycles. Radio broadcasting has always been troubled by static, both natural and man-made. The system of broadcasting developed by Major Armstrong maintains the amplitude constant and varies the frequency, hence the name "frequency modulation." The system has several outstanding advantages. It permits greatly increased coverage for equal power and frequency, as compared to the conventional method. It makes possible the transmission of actual high fidelity programs. It greatly reduces, and under certain conditions, eliminates both kinds of static, by reducing the noise level. This reduction in noise level is essentially the reason for greater coverage of the transmitter, since it permits the receiver to operate on very weak signals. With the present type of broadcasting, these signals would be covered up by noise, or static.

To be of practical use, frequency modulation must operate in the high frequency bands, which approaches the frequency used for television. Similar difficulties are therefore encountered. The band width of the frequency modulation channel should be from 60,000 to 80,000 cycles as compared to 10,000 cycles for amplitude systems now in use. Present transmitters, designed for amplitude modulation, cannot be used with frequency modulation, nor can the present conventional receivers be so used. It is possible, however, to design receivers capable of receiving both types, which is what General Electric engineers have done in the present instance.

"This Hobby Called DXing"

An outline of the Art of Tuning and an explanation of all the things that perplex the new DXer, was given in an article called "This Hobby Called DXing," which appeared in the January, 1939, issue of RADEX. All radio fans who wish to know how and what to write to radio stations, how to get verifications, how to hear distance, and who wish to understand the codes, prefixes and abbreviations used in DXing, should obtain this issue of RADEX. It is still available at the regular price of 25c per copy.

ON THE WEST COAST

By ANTHONY C. TARR

First of all our thanks to the many Radexers who have written in this month. For some it was their first letter to a radio magazine. Others have been regular reporters for years. All are equally welcome and, although we cannot publish all reports in their entirety, we do read and appreciate them all, using as much as possible in keeping with the purpose of this column—which is to present the highlights of current radio reception on all bands concisely and in a manner that will enable our readers to gain the utmost enjoyment from their radios. May we also extend hearty Christmas Greetings to each and every one who reads these lines, and may the New Year bring ever increasing happiness.

SO THEY WON'T ANSWER?

Much has been written pro and con regarding the QSLing habits of amateurs, mostly complaints that cards have not been forthcoming, and many lists of so-called "non-QSLers" have appeared in club bulletins. It possibly had not occurred to us that the SWLs themselves might be more largely at fault than perhaps they realize, but this was brought forcibly to our attention by the following letter from Hal B. Klein, Los Angeles, and is well worth reading and remembering:

"I think a slight injustice has been done VU2JK in your October column. I was fortunate enough to hear VU2JK one morning several years ago, with fine signals, and I was able to copy him for almost an hour. Now VU2JK replied to my letter via airmail and registered the same. He returned my IRC and enclosed what is my most attractive amateur QSL card. Since that time I have received several lengthy letters from him and

Reporters in the Mountain Standard and Pacific Standard Time Zones may send their reports direct to
Anthony C. Tarr
909 W. Lee Street, Seattle, Washington

I know he has gone to quite a bit of trouble and expense to print a special veri card for SWLs. This card shows a picture of a stalking Bengal

Tiger and is really a beauty. VU2JK states that he is always happy to send a card and confirm the reception of any SWL that hears him and encloses postage, but he does insist that a letter report be sent, for he will absolutely not accept, or even bother to read, one of these two or three line SWL cards, even when enclosed in an envelope with IRC. I know four persons who have established definite proof of reception from VU2JK and in each case a card was forthcoming via airmail. Of course, the SWL card serves its purpose, I suppose, and I also use one, but I always send at least a one-page letter with proof of reception, conditions, etc., besides the card. There are several hams such as GI2CC, VQ2HC, etc., who have written me and said it was a relief to get a report lengthy enough to really establish reception proof and all of these have replied promptly. I have taken a club's list of non-QSLers, including the elusive EI2L, and have scored 100% in every case. So the chaps who have been writing and complaining about such fine ops as VU2JK should try sending in a good accurate report for a change and I'll bet their luck would change—plenty!"

Well, Radexers, need we say more?

SHORTWAVE BROADCAST

China

XPSA, 7010 kc, heard with news in English 6-6:15 am. Signal R8 at times. (Fisher, R 1298).

XGOY was bombed early in September and programs directed to North America now emanate from XGX, Yunnan, on 17800 kc from 6-

7:40 pm, with English news at 6:50. (IDA)

French Indo-China

"Radio Saigon", 11780 kc, has instituted a new program especially directed to North America listeners. Very strong signals are reported here between 7:15 and 8 am. A lady announcer requests reports be addressed to P. O. Box 412, Saigon. (Sawada, Clein).

Italy

2RO4, 11810 kc, very strong in late afternoons with English announcements. (Fisher, Park).

Japan

JZI 9535 kc is now used for the overseas program 9-10:30 pm instead of JZK 15160. (Sawada).

JZI, 11800 kc, heard at 5:30 am with a French program. (Ronk).

Java

YDA, 3040 kc, heard well between 3:30-7:30 am. (Fern, R211 TH2).

PMH, 6710 kc, with strong signal early mornings. (West, R673).

Manchukuo

MTCY, 11775 kc, has three daily programs as follows: No. 1, 1-1:50 pm for Europe; No. 2, 10:30-11:30 pm for Western North America; No. 3, 6:50-7:55 am for China and Australia. Transmissions 2 and 3 have been reported in the West Coast. Address: Short Wave System, Central Broadcasting Corp., Hsingking, Manchukuo. (West, R673; Park; Sawada).

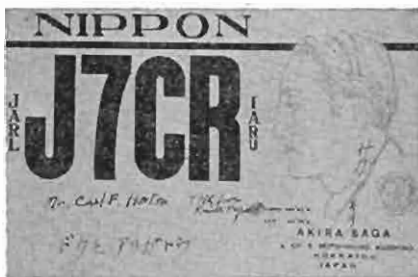
Mexico

XEQQ 6035 kc heard signing off at 9:40 pm with Ravel's "Bolero" and announcements in Spanish and English. (Fern R211 TH2).

Philippines

KZRF, 6140, and KZRH, 6100, are being heard very well around 3 am. (West, R673; Park).

KZIB, 9492, and 6040 kc, now operate daily 6-10 am. A three-note chime is heard hourly. (IDA).



One of the best of the Japanese amateur stations is J7CR, represented by this attractive three-color card. (Courtesy of Carl Horton).

Thai

HC8PJ, 9510 kc, heard clearly until 7 am, usually on Thursdays but sometimes other days of the week as well. (Park).

U.S.A.

W4XA, 26150 kc, heard strongly daytimes. (West, R673). (Let's have some more ultra-high reports for this column, Radexers!)

Yugoslavia

Belgrade, YUC, 9510 kc, heard signing on at 8am. (Park). Also heard on 11740 kc (call undetermined) 5:30-6:10 pm. (Park; Clein). YUG broadcasts on 15240 kc from 4:50 to 6 pm. (IDA). Was logged on that frequency at times stated. (Clein).

BROADCAST BAND

Reports of daytime DX on the Pacific Coast have not been frequent and one sent in by Art Child is the best we've yet seen. Located, at the time of this reception, in a CCC camp at Bray, California, he picked up no less than 64 stations at high noon consistently the most distant being CBK, 1035 miles from his receiver. He also reports intermittent reception from CMBF, CM9RT and CMBH. Space will not permit reproduction of Mr. Child's entire log, but here is the recap: California, 27 stations; Washington, 12; Oregon, 9; Utah, 4; Idaho, 3; Mexico, 3; Mon-

tana, 2; Canada, 2; Nevada and Colorado, one each.

Melvin Fisher, Oakland, Calif.: "I have heard KTKC, Visalia, signing on at 6 am on their new frequency of 890 kc, with 1000 watts. They announced both in English and Spanish. XEMO heard on 860 and XELO on 670 kc. Other stations logged are CBK, KOAC, KGW, KIRO, KSEI, KJR, CBR, KEX, KVEC, KTMS, KGB, KELA, KGA, WDJM, KOY, CFRC, and KWJJ. Also picked up a television broadcast from W6XAO, Hollywood, on 1440 kc at 8 pm. It was announced as an "experimental telecast." They said they would soon move their transmitter to Mt. Lee and expected to cover a 60 mile radius."

Clarence L. Mustoe, Brady, Mont.: "I started DXing last December and by May had received about 200 veries. I also logged about 100 more. My best verified are KGMB, KQV, WBZ, WBT, WWVA, WTJC, WSB, WMBR, WQBC, WCAU, WAML, WMPS."

Thos. C. Roberts, Casper, Wyo.: "KVID are now broadcasting on their new frequency of 630 kcs. I first heard them there on Sept. 24. They come through much better now than they did formerly on 920—too good for me to now hear either KGBF or KFRU. The new CBR is a daytime station here. XEJ, 1020 kc, was logged R6."

D. C. Morrison, Berkeley, Calif.: "The TPs are showing much better signal strength, with JOAK2 on 870 and 1YA on 650 kc being heard R8 at one time. New stations logged here since Sept. 1 include CKCK, CMQ, KDYL, 1YA, KOAC, WSM, WGN, and XEP. Japanese stations have been good, stations using Oriental language having been heard on the following frequencies, listed in order of decreasing quality of reception: 870, 590, 810, 770, 690, 830, 940, and 990 kcs. KFJZ, 1240 kc, is now heard all night, averaging about R5. They

announce as a 24-hour station. XECL is now using 1110 kc. They were heard on his frequency and announced as such. This makes them free from CBR's interference on 1100 kc. XECL signs off at midnight and returns at 6:30 am. The big four in New Zealand are usually heard regularly, being best about 2:30 am. Listed in order of decreasing reception quality: 3YA, 1YA, 2YA, 4YA. Ausies have been heard on 670, 630, 620, 610, 700, 740, 1230, 1220, 780, 710 and other frequencies, but so far these have not been clear enough to log. KVAN, the new Vancouver, Wash. station, was heard testing about 3 am on October 14 and 15. They announced "testing quality and equipment. Soon to be on regular daytime schedule with programs consisting mostly of music." On the second Saturdays of July and October, KRLC was heard 3-3:15 am during frequency checks instead of 3:55-4:10 am as scheduled.

Hal B. Clein, Los Angeles, Calif.: "We recently moved and, since short-wave reception is so noisy here, I have tried my hand at a bit of BCB listening. During two weeks of hit-and-miss tuning, my log stands at: CBK, KOAC, KSFO, KMJ, KHQ, KFRC, KTAR, KPO, WLW, KGU, KXA, KGO, KOA, KLX, WHO, KQW, WBT, CBR, KSL, KVCO, KOB, WOAI, KFXM, KLS, KDYL, KHUB."

F. W. Abbott, Los Angeles Calif.: "KECA is on 780 instead of 1430 as listed." The change has been made in RADEX lists. KECA on 1430 has been deleted and KEHE on 780 changed call to KECA.

Robert C. Morris, Arcadia, Calif.: "You asked for the signatures of persons who sign verifications, so I am sending a list of such:

CMQ, Migual Gabriel, Administrador Gerente

XEAC, F. Gudoth, Manager

XEMO, Fred Ferrerira, Chief Engineer

KVOA, Gil Mayneir Program Director

KOY, E. E. Alden

KSL, E. G. Pack, Chief Engineer

CFCN, E. Marshall

KIDO, Kate Scotland, Librarian

KSAN, Wm. C. Grove, Chief Engineer

E. M. Ringle, Vancouver, Wash.:
 "Station KVAN in this city began operating on October 22, 1939, with studios in the Evergreen Hotel at 5th and Main, and with the transmitter situated at 2915 Fruit Valley Road.

Mrs. L. E. Grannis, Eureka, Calif.:
 "I notice CBK, Watrous, Sask. is listed as there being no information on it. I wrote them for a verification and received a very nice letter signed by R. D. Cahoon, Western Regional Director."

Samuel A. Meyer Jr. On a recent trip through Mexico, Mr. Meyer gained a wealth of information concerning the stations in our neighboring country to the south. New stations are as follows: XESM, 1270 kc, 100 watts, Mexico, D. F. XEQK, 1500 kc, 100 watts, Mexico, D. F. XECW, 1240 kc, 250 watts, Avenida 1, No. 50, Cordoba, Veracruz, (Will verify DX reports). XEBJ, 1340 kc, 100 watts, Apartado 28, Ciudad Victoria, Tamaulipas. (Will verify DX reports). XERC changed frequency from 870 to 830 kc. Stations deleted are XEAL, 660 kc, XEXD, 1340 kc. A new transmitter is being built for XEK, 990 kc, to have 500 watts. Another frequency change is XEH, Monterrey, who is now broadcasting daily on 740 kc. instead of 720 kc.

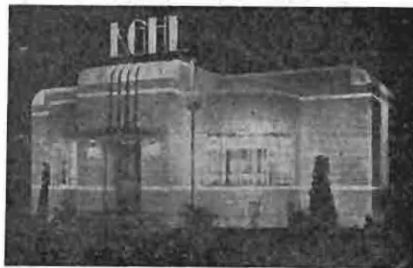
Australian station 6TZ, 1340 kc, 500 watts, located at Dardanup, W. A. should be testing soon. (IDA).

Wm. Cunningham, Pasadena, Calif.:
 "Following is some official data on the Mexican stations:

720 XEWE Silao, Gto., 20 w., Jesus Gonzales A.

- 1150 XEXH Oaxaca, Oax., 400 w., State of Oax.
- 1160 XEFM Leon, Gto., 20 w., Sucs. R. Ortiz Gonzalez.
- 1230 XEHK Guadalajara, Jal., 125 w., Carmen Villa senior.
- 1230 XEAJ Navojoa, Son., 100 w., Emilio Manzanilla.
- 1240 XEBC Morelia, Micho., 100 w., Fernando Corona.
- 1240 XEAD Aguascalientes, Ags., 500 w., Alejandro Diaz.
- 1240 XEDL Navojoa, Son., 250 w., Francisco Vidal.
- 1260 XEXT Tepic, Nay., 1 kw., State of Nayarit.
- 1280 XEKR Mexico City, D. F., 100 w., Exposicion Viajera.
- 1310 XEAU Tijuana, B. Cfa., 250 w., Manuel Acuna Varela.
- 1340 XELW Guadalajara, Jal., 250 w., Salvador Galindo de la Torre.
- 1400 XEDE Torreon, Coah., 100 w., Aurelio G. Zaragoza.
- 1400 XESM Mexico City, D. F., 200 w., Salvador San Martin.
- 1500 XEQK Mexico City, D. F., 400 w., Angel H. Ferreiro.

XEZ is going to 2 kw; XEB to 100 kw (at present using only 20 kw); XEBL to 500 w; XEAG to 100 w; XEAL and XEKL are deleted; XERC is out of the "Status undetermined" list but XEMX is in; Station XEFI is now owned by Ramiro G. Uranga; it is heard evenings using a higher power (might be 2 kw) on 1445, while XEFQ, judging from its signal, must have increased power. It is interesting to note that all the new Mexican stations are going on the new local ribbons of 1230, 1240, 1340, 1400, 1450 and 1490 kcs—these frequencies assigned by the Havana treaty for local stations in all the signatory powers. I think that XEAG might be operating on 1240



A photographic QSL card from KGHL, broadcasting station in Billings, Montana. (Courtesy of Clarence Lee Mustoe).

kcs now. Stations XEFW, XETB, XEX and XEAU will probably all operate on 1310 kcs as regionals.

From Newfoundland comes the official news that VONF is operating with 10 kw; VOCM on 1000 kcs; VOWR on 680 kcs; VOAR is owned by the Seventh Day Adventists. These are the only stations listed so the others must be deleted."

Revisions: Kindly make the following corrections to previously published material: September RADEX: —(Page 11)—KIRO and KMPC both use the 710 channel until 1 am PST, and then KIRO is in the clear until sign off at 2 am. KFAC, not KALE, is the all-night station on 1300 kc. October RADEX: —(page 15)—KVNU frequency check is 6-6:15 am EST on the second Thursday, not Tuesday.

RECEIVERS

It is always interesting to know the types of receivers used by other DXers. When sending in your reports, we'd appreciate this information. Hal B. Clein uses a Breting 14. Melvin Fisher in Oakland, a new DXer but among the most active, tunes a 7-tube Model 180XF Philco. Clarence L. Mustoe, in the wide open spaces of Montana, has a 75 ft. North-South antenna hooked to a 6-tube Westinghouse receiver. Another Philco owner is James D. Ronk, Eureka. He connects the ground to the antenna post of his Model 640 because of a noisy location. And Art Child, who sent in that fine list of daytime DX, has a 4-tube portable 1940 Zenith. His antenna is 225 feet long running East and West. Pardon us if we say, "We told you so," but we've always been an advocate of lengthy antennas for BCB DXing!

Who is the Aussie or Zedder being heard on 760 kc lately? Try for this one Sunday nights, when KXA signs off at midnight, because they block the channel until 3 am other nights. If 2FC has moved to 850 kc, as noted last month, and where the station call

was clearly heard, D. C. Morrison would like to know that TP he is hearing on their old frequency of 610 kc?

THE REPORTERS

R211 TH2—C. J. Fern, Jr., Lihue, Hawaii.
 R673: Victor West, San Rafael, Calif.
 R986: Art Child, Bray, Calif.
 R1139 Wyo. 4: Thos. C. Roberts, Casper, Wyo.
 R1203: D. C. Morrison, Berkeley, Calif.
 R1298: Melvin Fisher, Oakland, Calif.
 James D. Ronk, Eureka, Calif.
 Robert Park, Vancouver, B. C.
 Bob Sawada, Isleton, Calif.
 Harold B. Clein, Los Angeles, Calif.
 Mrs. L. E. Grannis, Eureka, Calif.
 Samuel A. Meyer, Jr., Laredo, Texas.
 Robert C. Morris, Arcadia, Calif.
 F. W. Abbott, Los Angeles, Calif.
 Clarence L. Mustoe, Brady, Montana.

NEWS OF WHAT'S NEW

With battery sets by the millions still in use throughout rural America, the race to bring electricity to farmers is rendering useless many good radios. Farsighted General Transformer Corporation felt pretty badly about this; decided to rescue the battery set from oblivion. Result was "Porta Power," a new tiny plug-in unit giving peppy "A", "B" and "C" power from house-lighting circuits to battery sets. New "Porta Pack" replaces batteries in small portable battery radios by sliding into empty compartment when receiver is used at home.

Multi-tube radios are fascinating, for, like giant locomotives they appear to possess untold power. E. H. Scott's big new "Philharmonic" has 30 tubes and unlimited range; 20-tube "Phantom" gives extreme DXing; and "Masterpiece's" 14 tubes are remarkably sensitive. Scott precision requires 3 weeks to build a radio, assures fine tone with world-wide reception. Sets may be found throughout 154 different countries in best company, but in America may be owned by anyone because of easy purchase terms.

Radexing With The Radexers

By Ray La Roque

December and Midwinter are at hand! Early afternoon sunsets and long, dark, cold nights! What better time of the year can anyone want for DX? Inside a warm den, up in a drafty attic bundled in a warm robe and woolen socks, or in the basement in the little room beside the furnace, wherever your DX corner may be, now is the time of the year when there is fun in DXing. You may like your DX in the evening, when QRM is at its height, or you may be a real night owl and enjoy sitting up till the wee small hours of the night or you may be the type called the "early riser" who gets up before the milkman and watches the sun come up while sitting at the dials. Regardless of the group in which you may be classified it is hoped that there will be some news in this section to interest you. We want sincerely to cover every phase and angle of broadcast band DX in this department, but we must have the help of the readers, for suggestions and criticisms are the only means we have of knowing your reactions to our efforts.

Now for our monthly gab-session in which our readers reveal their successes and failings and endeavor to help their fellow Radexers in gaining more pleasure out of this increasingly pleasant game of ours called "Radexing!"

COVERING THE CONTINENTS

Domestic Dialings

FORECAST: You are now in the midst of the "DX season" and on your own. When atmospheric conditions permit you can and should dig up anything broadcasting in this country and Canada, that is, anything within the scope of your receiving equipment. In other words, December is the month when conditions should be ideal for domestic DX.

Komments from the "K" District: KCKN, our local, has boosted its

power from 100 watts to 250 watts during daytime hours. KSCJ has changed from CBS to NBC. (Gerald Harris, R739, Kans. 5)

KFJZ at Fort Worth, Texas is now heard on 1240 kcs. announcing at the "Twenty four hour station on your dial at 124." (George C. Canapp, Baltimore, Md.)

KNX verified my report last winter the same day as it was received by them. The station was monitored for about a week for signal consistency under various weather conditions. KLS verified last May. They issued a nice folder. Tower and call letters were in blue on one side. On the reverse, a photo of the radio village of Warner Brothers. (Ray Schaffar, Waterloo, Iowa)

KQV was heard on August 31. I sent them a report with 10 cents. About two weeks later I received their card like the one printed in RADEX. (Jack Fern—R1160, Clifton, N. J.)

KSL has resumed its weekly schedule of DX programs which programs will continue as last year, throughout the DX season. The programs will take place each Thursday morning from 2:45 to 3:00 a.m. over KSL—1130 kcs., 50000 watts in Salt Lake City, Utah. Listeners are welcomed to tune in this KSL program for DX news, tips, special features, as well as messages in Spatari. Mac Elwyn Van, KSL DX Program Staff, will appreciate letters and comments from listeners at any time. (RX)

"W's" in the East: WBIG operating on 1440 kcs. started broadcasting on their new transmitter on September 29. The station is now out of town. They are using a 340 ft. tower and a 5 kw. transmitter replacing the old 1 kw. station. They have all the latest equipment. A photo electric cell is used to cut the lights "on" on the tower. Reports are requested. (Homer Apple, Greensboro, N. C.)

WBLK, WGKV, and WING are new stations for the National Broadcasting Company. (Gerald Harris—R739, Kans. 5)

WBRK at Pittsfield, Mass., is called the "Voice of the Berkshires." It is heard on 1310 kcs. from 7 a.m. to 1 a.m. and now has 250 watts with unlimited time. (Gilbert L. Harris, North Adams, Mass.)

WCCO was heard with R9 signals on 1620 kcs. a few nights ago. A report was sent them. A letter from the chief engineer states that they were hooked to a temporary antenna while preparing a new vertical. The trouble was corrected as soon as the report arrived. (Ray Shaffar—R1092, Waterloo, Iowa)

WCKY on 1490 kcs. announces that it will soon become a CBS outlet. WBIG in a recent verification announces that in a few days they will begin operating through their new 5000 watt Westinghouse transmitter and they would appreciate it if reports were received on their signal. (Sidney Tellis, R1271, Philadelphia, Penna.)

WCNC on 1370 kcs. at Elizabeth City, N. C. heard testing on the week-end of Sept. 24. Reports were requested and verifications promised. I received a veri by return mail from Lewis Hiland, W9COX, Chief Engineer. WCNC uses an 175 ft. vertical antenna. Schedule is from 7 a.m. to 11 p.m. (Desmond Callan—R987, Readville, Mass.)

WEDC on 1210 kcs. with 100 watts at Chicago is now an all night station. They come on the air at midnight and broadcast until 6 a.m. They are on every night at the same time. (Fred Anderson, Sgt. U.S. Marine Corp., Chicago, Ill.)

WENY at Elmira, New York heard on 1200 kcs. The station will use 100 watts with unlimited time facilities. (Gilbert Harris—North Adams, Mass.)

WFAM and WSBT reports should be addressed to Al Todd or Paul Mangus, Rt. No. 2, Box 2, South Bend, Indiana. H. G. Cole is now not

connected with their verification department. . . . WCKY now uses 50000 watts. . . . WCCO studios are located in WCCO Bldg. and not in Hotel Nicolet. . . . WDGW now occupy the Hotel Nicolett. . . . WMT have been in the Paramount Building for two years. (Merlin N. Steen, Decorah, Iowa)

WFVA in Fredericksburg Va. on 1260 kcs. with 250 watts is now on the air. They were heard from 4-5:30 p.m. with R6 signal and excellent quality. (Harold Tear—R924, Roanoke, Va.)

WGBR in Goldboro, N.C., is now on the air on 1370 kcs. with 250 watts days and 100 watts night. Tower is 186 ft. in height. . . . WOPI in Bristol, Tenn., on 1500 kcs. has 250 watts now daytime and also at night. 220 ft. is the height of the vertical radiator. WOPI's schedule is from 7 a.m. to 10 p.m. Their frequency check is on the second Tuesday from 4:15 a.m. (Harold Tear—R924, Roanoke, Va.)

WHLS at Port Huron, Michigan is now using 250 watts. (Carl Sylvester—R36, Columbiaville, Mich.)

WJSV's new transmitter is nearing completion and its location is Wheaton, Maryland—about seven miles from Washington. Noticed that you didn't have schedule for WRC and WMAL. WRC signs off at midnight. (David Hill—R49, Washington, D.C.)

WJW's night time power has been increased to 250 watts the same as daytime. Hope this will blot out heterodyne whistle from WHBC, Canton, Ohio. Where I live, I am seven miles south of Akron on the Portage Lakes, evening reception is practically impossible on account of every station being QRM'd by from one to three stations on the same channel. (Dr. Dean Miller, Akron, Ohio)

WLNH at Laconia, N. H. is to make changes in equipment and to increase power to 250 watts unlimited time. They are heard on 1310 kcs. . . . The FCC has authorized the Tri-State Broadcasting Corp. to move

station WNBX from Springfield, Vt., to Keene, N. H. and operate on its present frequency of 1260 kcs. with a power of 1000 watts, unlimited time. (Gilbert Harris, North Adams, Mass.)

WRGA on 1500 kcs. was heard on a special program about 3:30 a.m. on October 29th. They were adjusting their transmitter and asking for reports. (Sidney Tellis—R1271, Philadelphia, Penna.)

WWSW's new 350 ft. tower is completed and will be in operation very soon. This new equipment, coupled with the recent jump in night power of WWSW, the station will add greatly to its present coverage. (Alfred Razzando)

Bahama Islands: ZNS on 790 kcs. knocks WGY out from 7:30-10:15 p.m. with an R4 signal. (Harold Tear, Roanoke, Va.)

Canada: CBA and CBK are both heard with good signals from 9-11 p.m. CKY is good after midnight. (Harold Tear—R924, Roanoke, Va.)

CFCT in a veri states: "At present we are using 500 watts power, with 100% modulation and a vertical antenna 180 ft. high and a salt water ground. Frequency is 1450 kcs. Our only DX broadcast now is from 3:30-5:00 a.m., but we except to extend that with the advent of the DX season. Meanwhile, it's very unusual to hear from listeners in your vicinity (as a matter of fact, yours is the first). We are having veri cards made, so send us another report and get a new card." (Alfred Razzando, Fayette City, Pa.)

Latin America

Argentina: LR-1 heard above the QRM from 8-9 p.m. Other stations heard weakly behind heavy QRM. (Ray Schaffar, R1092, Waterloo, Iowa).

Costa Rica: TIPG on 620 kcs. with 5000 watts heard but the signal was very weak. (Harold Tear—R924, Roanoke, Va.)

Cuba: Cuban stations are heard very well. Logged so far in one evening CMBQ—910, CMX—880, CMCK

—970, CMCM—850 kcs. CMBQ is the strongest. (Richard Wright, Swarthmore, Pa.)

Cuban stations take the cake. Their quality could be better, but signals are tops in strength. CMQ, CMCK, CMK, CMCY, CMGH, CMBH, CMBD, CMBC, CMCL, CMCW, CMOA, CMOX, CMW, CMHD, CMJE, and others are heard almost nightly. (Harold Tear—R924, Roanoke, Va.)

CMBQ at Havana is on 900 kcs. and announces in English every fifteen minutes. (Desmond Callan—R987, Readville, Mass.)

CMHI was reported by myself as using 1000 watts. This was a mistake in reporting. It should have been 10000 watts. The station took the air on May 20th on 830 kcs. Soon after I picked it up at 2 a.m. testing with Spanish recordings. A report was sent at once, which was acknowledged by someone at the station with a form letter and a veri card. A few days later a personal letter was received from Armando Trinidad, the owner, stating that my report was so outstanding and the receiver so excellent that it was the first report from the U.S.A., and the best one received from any source. (Ray Schaffar, R1092, Waterloo, Iowa)

Guatamala: TGW on 1520 kcs. is heard with a good signal from 7-10 p.m. and is sometimes better than its shortwave outlets. TGW now uses 5000 watts. (Harold Tear, R924, Roanoke, Va., and Ray Schaffar, R1092, Waterloo, Iowa)

Mexico: XEDH on 1340 kcs. is testing in the early morning daily. They desire reports. Announcements are in Spanish and English. Each selection is announced and a souvenir is promised to those reporting. The station comes in here with R9 signal, and it sounds more like 5000 watts than its rated power of 200 watts. Address: XEDH, Villa Acuna, Coah., Mexico. . . . XEW seems to be R9 plus and always above the

QRM on 890 kcs. (Ray Schaffar, RI092, Waterloo, Iowa)

XENT now comes in with R9 signal every morning around 2 o'clock. (Sidney Tellis, RI271, Philadelphia, Pa.)

Peru: OAX4A on 854 kcs. with 10 kw. has the following address: Ave. Petit Thomas No. 447, Lima, Peru. (William Scott, Johnson City, Tenn.)

FORECAST: Latin American reception is ready and waiting for you almost any evening during this month. You'll find them battling some domestic station for supremacy on one of the many allegedly clear or regional United States channels.

Tuning the TA's

FORECAST: December should bring about a peak in reception from Europe. The early morning hours from midnight till 2 or 3 a.m. are to be watched nightly for the nights when the TA's will break through. When one is heard, usually it is a favorable sign and the channels of other powerful TA's should be combed for more catches. Another good time to try for TA's is immediately at or a little before sundown and continuing until about 6-7 p.m. when most TA's sign off the air.

News from Europe is at a premium principally because those countries are more occupied with other tasks and haven't time for releasing DX news for radio publications. As no TA reception has been reported as yet we are unable to give you any actual reports on reception but if this is to be any DX season the Europeans are due to trickle into our loudspeaker any a.m. now and we'll see what we can gather in the way of reports for next month. Meanwhile if any Radxer succeeds in nabbing a TA before we do we'll appreciate a report and so will many other readers.

TP Topics

FORECAST: TP reception is possible but not at its peak at this season. However if you're after DX

from Northern Asia such as from Russia or Japan, now is the time to try. But, we doubt very sincerely whether many of our Eastern DXers will log an overabundance of calls from this area. Australia and New Zealand stations will be better and more readily logged in late February, March and early April.

China: XGOA is on 1200 kcs. with 10 kw. antenna power. Address is: The Central Broadcasting Administration, Chunking, China. (William Scott, (Johnson City, Tenn.)

Hawaii: October has been very good for KHBC. Others heard a few weeks later. KGMB, KGU, and KHBC are all verified. KHBC came through all winter last season and lasted until June. Other Hawaiians faded out long before KHBC. (Ray Schaffar, Waterloo, Iowa)

Philippine Islands: The broadcast stations of the Philippines are as follows:

KZIB 900 kcs. I Beck, Inc. owners

KZRF 780 kcs. F. E. B. Co.

KZRH 1200 kcs. Radio Heacock

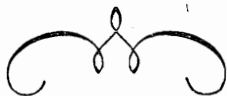
KZRM 618.5 kcs. Far Eastern Broadcast Co. (50 kw.)

All the stations are in Manila and the power of the three smaller stations is not known.

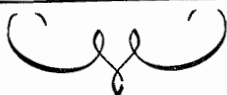
Before the next issue of RADEX will be able to reach many readers the holiday season will be upon us. May I your Eastern Editor extend my sincere wishes to very reader of RADEX for a happy and prosperous Christmas Season. Here's hoping good old Santa Claus has plenty of new receivers, equipment and DXer's supplies in his pack, ready for distribution among RADEX readers. And if you're at your dials on Christmas Eve, don't forget that plenty of Latin Americans will be on all night with special broadcasts at that time. PEACE ON EARTH AND GOOD DX TO EVERYONE!

HIGH FREQUENCY GLOBE TROTTING

By Ray La Rocque



Report-o-Meter	
M. F. Williams	100%
Alton Caldwell, Jr.	92%
Carl and Anne Eder	90%
Joseph Cazeneuve	79%
Gilbert L. Harris	77%



This month's meter is made up entirely of strangers. For each of this month's top five it is the first appearance of the season in the Report-o-Meter. And, as a glance at the results will show, the scoring was very close and one more good report by any one of the reporters would have changed the status of the whole meter. As for honorable mention, there is a wide gap between those who registered and the remaining reporters. The next ranking reporter would have a score of about 56%. Candidates for honorable mention are: Robert Skyten, James J. Holsema, Desmond Callan, C. Roman, Robert Blanchard, and Kyle C. Bonifield.

ASK US ANOTHER

Harold Lund, R376, 633 East 19th, Erie, Penna. tells us that around 9:05 p.m. a station in Switzerland popped in on 19 meters. The program was especially for the United States and call letters were not understood due to interference. Travel and art in Switzerland was the subject of the talk by the broadcaster. Can anyone help Radexer Lund on this one? . . . Henry Bennett, 644 Atlantic Ave., Collingswood, N. J. pens, "A little note to Weston Richard of

Zion, Illinois who in October 1939 issue of RADEX asked location of WANC calling CQ-75 meters. I have the same station listed as being in Jamesport, state unknown. I also have WQIX and WAKNF listed as hams. WQIX said he was located in Queen City, N. J. Can anyone identify either of these stations?" Another reply to Weston Richards of Zion, Ill. This time from Edward Shirley (R615), Jamestown, N. Y. who says that the location of WANC is Jamestown, N. Y. It operates on 2726 kcs., is owned by the Emergency Unit. The address is Ira Lou Spring Post, No. 149, The American Legion, Jamestown, N. Y. WANC will verify all reports sent to them.

"I would like to know what station is heard on the high frequency side of W6XBE on about 15370 kcs. I usually hear them in the early afternoon till about 2:30 p.m. Music played is mostly Oriental." The preceding is from Joseph Cazeneuve, Montreal, Canada.

Kyle C. Bonifield (R1318) Asbury Park, New Jersey would like information on a station believed to be in Belgrade, Yugoslavia. It was heard from approximately 7:30 p.m. to 8:50 p.m. on 11731 kcs., on September 25. "I distinctly heard the words, Radio Belgrade," says R1318! (Known Belgrade calls are: YUA on 6100, YUC on 9505, and YUG on 15240 kcs.—all announcing as "Radio Beograd.") They are supposed to have available a frequency on the 25 meter band, though the call and exact frequency is not known to us. Evidently it was that unknown call that you heard—RL)

Carl Sylvester, Columbiaville, Michigan says, "Yesterday afternoon I heard a station that I could not identify. They were approximately on DJB's wavelength and used a foreign language from 3:30-3:45 p.m. giving news with no announcements in English. The voice was high-pitched and

the only words that I could make out were the names of various diplomats in the news. The gong sounded in between the various items of news. This is the first time that I have ever heard this station or at least that language."

. Mystery for Gilbert L. Harris, North Adams, Mass. is the station heard near 15340 kcs. from noon the 12:25 p.m. with a program of odd music. A mystery station is also reported by Carl and Anne Eder, Pouch A. Willmar, Minnesota. It is on 13500 kcs. and heard Sundays from 9:40-10:30 p.m. signing off with Ted Lewis' Good Night Song. Program consists of Oriental music, man announcing in a strange language, Mohammed was mentioned during the program, no English announcements were made during the program. Who is it?

David Hill (R49), Washington, D.C. states: "There are several stations I hear every day, but the only thing I know of their location is they are on boats of some kind one of which is the 'Penn' and another the 'Gulf Stream.' The call letters are WYFE, WYFF, WYFG, WYFD, all on about 2726 kcs."

QUOTE AND UNQUOTE

Leon Grossman, 118 Dorbeth Rd., Rochester, N. Y. "No doubt you've heard quite a bit about the world DX Alliance lately, and you will hear quite a lot in the future. We still have the same officers: Nicholas Woytan, president (Syracuse, N. Y.); Erick R. Johnson sec'y. and treasurer (Perth Amboy N. J.); Leon Grossman vice-president and B. C. B. editor (Rochester N. Y.); George J. Eder, amateur editor (Maywood, Ill.); Gilbert L. Harris (North Adams, Mass.) shortwave editor; and C. J. Spatola, C. P. C. chairman (Rochester, N. Y.) Anyone interested may write to either Erick R. Johnson, P. O. Box 422, Perth Amboy, N. J., or Leon Grossman."

NOT SO SHORT WAVES

Following is a list of U. S. Coast

Guard stations operating each day on the assigned frequency of 2662 kcs. Weather Bureau Information is given to all shipping and since very few listeners report these stations, they greatly welcome mail and verify all correct reports.

NMC San Francisco, Calif. 4:20 a.m. and p.m.

NMF Winthrop Mass. 11 a.m. and p.m.

NMG Mobile Ala. 9:20 a.m. and p.m.

NMN Princess Anne Va. 10:50 a.m. and p.m.

NMV Jacksonville Fla. 10:20 a.m. and p.m.

NMW Grays Harbor Wash. 6:30 a.m. and 4:30 p.m.

NMY Rockaway Point N. Y. 11:30 a.m. and p.m.

NOJ Pt. Vincente Calif. 5 a.m. and p.m.

NOW Port Angeles Wash 6:40 a.m. and 4:40 p.m.

NOY Galveston Texas 9:50 a.m. and p.m.

NREH Pt. Adams Oreg. 6:50 a.m. and 4:50 pm.

(Williams—R552, N. J.)

WCOS, Towboat "Betty Gardner" stating, "Reporting from 266 miles, passed the 'Mobile', the 'Huskie', getting foggy. Should get into New York by 6:15 tomorrow morning." This was repeated about ten times and then sign off. Frequency was 2775 kcs. (Carter—R649, Mich.)

WFBI (formerly W10XBI) on 1642, and 2442 kcs. heard testing during the last part of August. WFBI is owned by the Federal Bureau of Investigation and has an output of 42 watts. (Hill—R49, D. C.)

Natural Gas Pipe Line Co. of America stations heard on a frequency of 2726 kcs. with 50 watts power. Those heard were: KIPU, Beatrice, Nebraska; KIPR, Red Oak, Iowa; and KIPT, somewhere in Iowa. They were making a regular Friday test and frequency check at 9:55 p.m. (May—R689, Ga.)



A coffin and death's head tend to make the QSL of ZL3KX an eerie one. A lavender border heightens the effect.

Over twenty ship stations have been heard on 2725 kcs. They are so thick at times that I hear nothing but a jumble of QRM. (Carter—R649, Mich.)

WWBR on 3410 kcs. contacts WWAD "Violet", WWCO "Orchid," WWCR "Linden," WWEH "Wistaria," and others at 8:30 p.m. . . . WWMO on 2770 kcs. at Odensburg, N. Y. tests daily at 10 p.m. with WWME — Chatauguay, N. Y.; WWMD—Derby Line, Vt.; WWMP Rouses Pt., N. Y.; and WWMR—Richford, Vt. all on same channel. . . . CZ7I—2238 kcs. and CZ7J—2275 kcs. at 9 p.m. daily. CY2J on 2342 kcs. heard at 11:45 p.m. testing. CZ4L on 4500 kcs. at 5:40 p.m. CZ6T on 4755 kcs. with VDA and CY3T on same frequency around 9 p.m. (Roman—Ill.)

Weather reports are heard daily on the following stations at the times mentioned: WAQ—2522 kcs. at 11:50 a.m. and p.m., WAK—2558 kcs. at noon and midnight WAY—2182 kcs. at 10 a.m. and p.m. WMI—2182, 2514, 2550, 6470, 8585, and 11370 kcs. at 11 a.m. and p.m. WOX—2590 kcs. at 10:50 a.m. and p.m. WWM—2572 kcs. at 11:10 a.m. and p.m. WWOC—2572 kcs. at 11:40 a.m. and p.m. WWOJ—2572 kcs. at 10:20 a.m. and p.m.

WWOS—2572 kcs. at 11:50 a.m. and p.m. WYYD—4295 kcs. at 10:30 p.m. (Roman—Ill.)

ULTRA HIGH

W1XOV on 27500 kcs. is often heard working several other stations at Mt. Washington and other observatories for weather news. W1XOV is Yankee Network.

W1XW on about 31000 kcs. heard testing. This is the Harvard Weather station on Mt. Blue, Milton, Mass.

W5XD on 31600 kcs. heard daily with facsimile broadcast. They verified promptly with WFAA card on which was typed "For W5XD."

W9XOK on 25300 kcs. at St. Louis, Mo. heard here relaying KXOK. The program quality is good, but announcements are somewhat distorted. Signal strength is good.

W9XJD on 26100 kcs. heard here regularly near noon. Relays KSD.

Spanish speaking stations heard on 27800 kcs. and 30800 kcs. Latter mentioned call is believed to be COCA. These may be harmonics as they are not strong signals.

KQPV on 32500 kcs. at Los Angeles County Sheriff's Office, Calif. heard several days at 1-2 p.m. Also heard was KQPN which is believed to be at Ft. Worth, Texas and WRBA, location unknown. Local Cruisers on about 31000 kcs., Boston Police on 35500 kcs., and WQPR at Quincy, Mass. near 36000 kcs. are also heard well.

Forest Fire Stations in towers of the Massachusetts department of conservation for two way work with small cruisers. WRKO at Carver, Mass.; WRKQ, Fall River, Mass.; and WQWG at Havardall are all heard well on 31000 kcs. These stations work small pick-up trucks equipped with two-way radio to deal with small brush and grass fires. Others heard besides those listed previously are: WQYU at Hanson, Mass., on 35600 kcs., WQWJ on 35600 kcs. at unknown location, WRKJ and WRNU with location and frequencies

uncertain. (All reports in this month's Ultra High section were by Alton L. Caldwell, R1319, Brockton, Mass.)

"FM" BROADCASTING

"FM" or Frequency Modulated type of broadcasting, using the ultra high bands is due for a little space in our column. We will not promise that the abundance of news will be such that we can devote an entire section to it each month, but there is definite increase in the amount of interest shown by readers in this type of transmission. Though the stations cannot be heard intelligibly on an ordinary receiver, and receivers equipped for "FM" reception have only very recently been made ready for the general public, DXer's profess an unusual desire for more information about these stations that can be heard, but cannot be understood. Without attempting to go into detail on the subject, we're going to give you a list of stations using this type of broadcasting and for more information we refer you to the article "Stateless Radio" which appeared in March 1939, issue of RADEX.

W1XCS Storrs, Conn. 250 w. 39450, 139960, 300000, 400000 kcs.

W1XEV Storrs, Conn. 500 w. 26300 kcs.

W1XOJ Paxton, Mass. 2-3 kw. (soon to be 50 kw.) 43000 kcs.

W1XSL Hartford, Conn. 100 watts (CP only)

W1XSO Hartford, Conn. 1 kw. 43200 kcs. (CP only)

W1XPW Hartford, Conn. 1 kw. 43400 kcs.

W2XAG Yonkers, N. Y. 5 kw. 132400, 132680, 133380, 134360, 135340, 137440, 137860, 138140, 138840, 139540, 139960, 162000, 168000, 210000, 216000, 264000, 270000, 300000, 400000, 401000 kcs.

W2XDA Schenectady, N. Y. 50 w. 43200 kcs.

W2XMN Alpine N. J. 40 kw. 42800 and 117430 kcs.

W2XOY Albany, N. Y. 150 watts 43200 kcs.

W2XQR New York N. Y. 1 kw.

41200 (CP) and 43200 kcs. (pending).

W2XSN Alpine, N. J. 1 kw. (CP) 43200 kcs.

W3XO Georgetown, D. C. 1 kw. (CP) 43200 kcs.

W9XYH Superior, Wis. 1 kw. (CP) 26300 kcs.

WEOD Boston, Mass. Relay station —50 w. 133030, 134850, 136810, 138630 kcs.

(List by Callan—R987, Readville, Mass.)

W3XO on 43200 kcs. with 200 watts an "FM" station heard between 5 p.m. and 5:30 p.m. This station has just commenced broadcasting and can be addressed at 1219 Wisconsin Ave., N. W. Washington D. C. (Hill—R49 D.C.)

W1XOJ on 43000 kcs the Yankee Network station at Paxton, Mass. is an "FM" station operating daily from 8 a.m. to midnight. They carry programs of the Yankee, Colonial, and Mutual networks. This information comes from a program sheet distributed by the network at the Brockton Fair where a demonstration of "FM" sets was a feature. Reception was excellent on receivers at the fair. (Caldwell—R1918 Mass.)

SHORTWAVES IN REVIEW

Albania

ZAA on 7890 kcs. at Tirana heard at 6:15 a.m. with R5 signal. (Eders—Minn.)

Bahama Islands

ZFS on 4512 kcs. at Nassau was heard from 6:45-6 p.m. contacting VST. (Roman—Ill.)

Brazil

PSE has shifted to 14940 kcs. and are heard from 7-8 p.m. with same program as PSH. (Williams—R552, N. J. and Cazeneuve—P. Q.)

Canada

CFCX on 6005 kcs. is on the air from 7:45 a.m. to 1 a.m. and relays CFCF on 600 kcs. Address: Canadian Marconi Co. Ltd., Box 1690, Montreal. (Cazeneuve—P. Q.)

CFKX on 6080 kcs in Vancouver, B. C. can be heard relaying CFCF

daily between 1-3 a.m. except Mondays. Slogan: "Shortwave Voice of British Columbia." (Williams—R552, N. J.)

CFRX on 6070 kcs. at Toronto verifies with a postal card on which is a picture of Ontario's Parliament Bldg. The building is a stone's throw CFRX-CFRB studios. (Szabo—R1302, N. J.)

Canary Islands

EAJ-43 on 10370 kcs. at Tenerife was heard at 8:30 p.m. (Eders—Minn.)

China

XGOX-XGOY at Chungking was bombed on September 3. After that, XGX took up the government's broadcasting. Now, October 20, a new XGOY at Linkiang (Not certain), in Northwestern Yunnan Province is broadcasting. They maintain the same schedule as previously with news in English on 11900 kcs. at 6:15 a.m. and on 15200 kcs. at 9:50 p.m. (Callan—R987, Mass.)

Colombia

New calls in use or soon to be used by all stations:

- 4745—HJCX Bogota
- 4755—HJEH Buenaventura
- 4765—HJFB Manizales
- 4775—HJGB Bucaramanga
- 4785—HJAB Barranquilla
- 4795—HJFI Ibague
- 4805—HJDU Medellin
- 4815—HJBB Cucuta
- 4825—HJED Cali
- 4835—HJAE Cartagena
- 4845—HJCD Bogota
- 4855—HJCF Bogota
- 4865—HJBJ Santa Marta
- 4875—HJFH Armenia
- 4885—HJDB Medellin
- 4895—HJCH Bogota
- 4905—HJAG Barranquilla
- 4915—HJFC Pereira
- 4925—HJAP Cartagena
- 9630—HJCT Bogota

(Williams—R552, N. J.)

Costa Rica

TIPG on 9612 kcs. at San Jose is

heard from 7 a.m. to 9 a.m. and 4 p.m. to 11:30 p.m. (Harris—Mass.)

Cuba

COHI on 6450 kcs. at Santa Clara relays CMHI from 7 p.m. to 1 a.m., at which time they sign off. General Electric is mentioned often. (Williams—R552, N. J., and Cazeneuve—P. Q.)

COCN on 9437 kcs. is under construction in Cuba. (Williams—R552, N. J.)

A very recent list of Cuban stations has been received from Jose Carriazo, Jr., DX Editor of "Radiomania" of Havana.

- 6130 COCD, La Voz del Aire, G. y 25, Vedado, Havana.
- 6330 COCW, La Voz de las Antillas, Gil y Troncoso, Prado 553, Havana.
- 6350 COCQ, Cambo y Gabriel, S. A., Monte 103, altos, Havana.
- 6450 COHI, Amado Trinidad Velasco, Santa Clara.
- 8665 COJK, La Voz de el Camagueyano, Finlay 3, altos Camaguey.
- 8700 COCO, Capitan Luis Casas Romero, Box 98, Havana.
- 8830 COCQ, Cambo y Gabriel, Monte 103, altos, Havana.
- 8935 COKG, Hermanos Grau, Box 137, Santiago de Cuba.
- 9030 COBZ, Radio Salas, M. y G. Salas, Box 866, Havana.
- 9190 COCX, Casa Lavin, Box 32, Havana.
- 9363 COBC, El Progreso Cubano, Domingo Fernandez, Box 132, Havana.
- 9437 COCH, General Broadcasting Co., Box 41, Havana.
- 9805 COCM, Laureano Suarez, 25 No. 1115, Vedado, Havana.
- 11800 COGF, Bernabe, de la Torre, Gral. Betancourt 51, Matanzas.

Czechoslovakia

OLR5A on 15230 kcs. at Prague heard at 7:30 p.m. with Czeck news. Signal R9! (Eders—Minn.)

Dominican Republic

HI-1A on 6185 kcs. now as stated on a verification received.

HI-1J on 5855 kcs. at San Pedro de Macoris is heard nightly from 8-11 p.m. (Cazeneuve—P. Q.)

Ecuador

HCK has shifted its frequency to 5360 kcs. Quito is the location. (Williams—R552, N. J.)

France

"Radio Strasbourg" on 11870 kcs. is an odd one reported from 10-11:30 p.m. May be the broadcast band station being rebroadcast on S.W. by a "Paris Mondial" transmitter. (Cazeneuve—P. Q.)

"Paris Mondial" heard on 9680, 11718, and 11885 kcs. daily from 8 p.m. to 12:30 a.m. with news in English at the beginning and end of the transmission. (Caldwell—Mass., Harris—Mass., P. Q., Eders—Minn.)

"Paris Mondial" on 15243 kcs. is heard from 12:30-1:30 p.m. Reports are requested. (Harris—Mass., and Cazeneuve, P. Q.)

French Indo China

"Radio Saigon" on 11780 kcs. at Saigon, broadcasts from 6 a.m. (or earlier) with English program lasting till 6:45 a.m. (Skyten—R786, Mass.)

Finland

OIE on 15190 kcs. at Lahti heard from 3-3:30 p.m. with news and piano music. Signal varied from R7-8. (Blanchard—R485 N. Y.)

Germany

DJL on 15110 kcs. (replacing DJB—15200 kcs.) DJD, and DXB on 9610 kcs. broadcasts nightly to North America. (Skyten—R786, Mass.)

DJX on 9675 kcs. has news in English around 4:15 p.m. (Harris—Mass.)

DXB on 9610 kcs. received very well in the afternoon and early evening with broadcasts beamed on the United States. (Caldwell—Mass., and Roman—Ill.)

DZC on 10290 kcs. at Berlin transmits from 4:50-9 p.m. to South America now along with DJN, DJQ, DJP, and DJA. (Callan—Mass.)

Great Britain

Complicated, though it may seem, the following is a complete schedule of transmissions for BBC stations:

The stations available for use are: GSA 6050 kcs., GSB 9510 kcs., GSC 9580 kcs., GSD 11750 kcs., GSE 11860 kcs., GSF 15140 kcs., GSH 21470 kcs., GSI 15260 kcs., GSJ 21530 kcs., GSK 6110 kcs., GSN 11820 kcs., GSO 15180 kcs., GSP 15310 kcs., GST 21550 kcs., GSU 7260 kcs., GSV 47810 kcs., GSW 7230 kcs., GRX 9690 kcs., GRY 9600 kcs., and GRZ 21640 kcs.

Transmission I: From 12:57 a.m. to 5:15 a.m. on GSD, GSB, (till 3:15 a.m.), GSF (from 3:30 a.m.), GSP, and GSI.

Transmission II and III: From 5:42 a.m. to noon on GSJ GSF (from 10:45 p.m.), GST (till 10:15p.m.), GSG (NA), GSH, and GSV.

Transmission IV: From 12:22 to 3:30 p.m. on GSI, GSD, GSC (from 1:35 p.m.), GSG (NA), and GSE (from 1:35 p.m.). From 3:50-6 p.m. on GSC, GSP (Na), GSO, GSF, and GSD.

Transmission V: From 6:22-9:15 p.m. on GSD (NA) GSB (NA), GSF, and GSC.

Transmission VI: From 9:37 p.m. to 12:30 p.m. on GSD, GSC, GSB (NA).

European Transmission: From 12:57 a.m. to Noon on GSW and GSE. From 12:17 p.m. to 9:15 on GSA and GRX.

Arabic Transmission: From 12:17 p.m. to 1:15 p.m. on GSP and GSC.

NOTE: (NA) means that the program is beamed at North America. (RX and supplements by Harris—Mass., and Williams—R552, N. J.)

Guatemala

TGWB on 6480 kcs., and not 6490 kcs. This is from a verification received. (Cazeneuve—P. Q.)

TGWA verified my report of reception on the night they dedicated their program to RADEX. (Fern—R1160, N. J.)

Verification gives Guatemala stations as follows. TGW on 1520 kcs., with 5 kw., TGWA on 9685 and 15170 kcs. (11760 and 17800 kcs. optional) with 10 kw., TGWB on 6480 kcs. with 1 kw., and TGWC on 2320 kcs. with 1 kw. (Atwood—R1355, D.C.)

Hungary

HAT-4 on 9125 kcs. heard on usual Sunday 7-8 p.m. program, but with almost double signal strength than when heard last year at this time. (Bonifield—R1318, N. J.)

Ireland

"Radio Eire" on 17840 kcs. heard at 2:45 p.m. with cricket game. (Eders—Minn., and Piechuta—R1269, Conn.)

Italy

12RO-12 on 15100 kcs. at Rome heard irregularly from 4-5:30 p.m. (Harris—Mass.)

Japan

JZI on 9535 kcs. from 12 to 130 (NA) and 6-8:30 a.m.

JZJ on 11800 kcs. from 6:00-8:30 a.m., 2-4 p.m., and 4:30-5:30 p.m.

JZK on 15160 kcs. from 12-1:30 a.m., (NA), 4:30-5:30 p.m., and 8-9 p.m. (NA).

JVW on 7257.5 kcs. from 2-4 p.m. (RX and Skyten—R786, Mass.)

Lithuania

LYR on 9290 kcs. at Kaunas is operating from 1-1:40 a.m., and from 3:30 to 4 p.m. On Sundays from 2:30-3:15, 7-8:45 a.m., and 12:30-2:15, 3-4:30 p.m. (Williams—R552, N. J.)

Luxembourg

"Radio Luxembourg" on 9524 and 11776 kcs broadcasts daily on both channels. First on 9524, then 8 hours later on 11776 kcs. The station observes the same schedule for three days, then both programs start one hour later for three more days, and so on. Each broadcast lasts one hour. (RX and Blanchard—R485, N. Y., and Harris—Mass.)

Mexico

XEKW on 6020 kcs. (approximately) heard regularly. (Walker—W. Va.)

EXXA on 9503 kcs. and is heard



The new QSL card from EAQ in Madrid. The map of the world shows how many hours to add or subtract to convert to local time from GMT. The tower is La Giralda in Seville. (Courtesy of John D. Long.)

regularly until 1 a.m. (Cazeneuve—P. Q.)

Nicaragua

YNDG on 7660 kcs. in Leon, having recently moved to that channel. (Williams—R552, N. J.)

Peru

OAX4T on 9562 kcs. operates from 11:30 a.m. to 1:30 p.m.

OAX4Z on 6082 kcs operates from 7 p.m. to 11:30 p.m. Address for both stations: Ave. Petit Thomas 447, Lima, according to a verification. (Scott—Tenn.)

Philippine Islands

KZEH on 9580 kcs. (announced frequency) has been heard testing between 7-8 a.m. Reports were solicited and should be addressed to P. O. Box 119, Manila. (Williams—R552, N. J.)

KZIB on 9500 kcs. at Beck's Dept. Store—I. Beck, Inc., Escolta. Also operates on 6040 kcs and 900 kcs. Schedule: 6 p.m. to 12:30 a.m., and 4-10 am.

KZRF on 6140 kcs (formerly KZEG) is owned by F. E. B. Co., and known as "Radio Filipinas" at Insular Life Bldg. They operate on 780 and 6140 kcs. from 5:30 p.m. to 11 a.m.

KZRH on 6100 kcs. "Voice of the Philippines" addressed as Radio Heacock, Heacock Bldg., Escolta. They broadcast in parallel with 1200 kcs. from 5 p.m. to 11 a.m.

KZRM on 9570 kcs. "Radio Manila" owned by Far Eastern Broadcasting Co.; Insular Life, Bldg. Uses 50 kw. on 618 kcs. and 5 kw. on shortwaves from 4:30 p.m. to 7 p.m., 11 p.m. to 12:30 a.m., and 4 a.m. to 10:30 a.m. KZRM has 15 kw. transmitter under construction together with a 500 ft. vertical antenna. It is the most powerful English speaking station in Asia or Oceania. (Preceding four reports by Halsema—N. C.)

Portugal

CSW on 9740 kcs. heard nightly at 8 p.m. and reported coming on the air at 3 p.m. on Saturdays. (Harris—Mass., and Cazeneuve—P. Q.)

Spain

EAQ on 9855 kcs. at Madrid heard signing on the air at 6 p.m. and Sundays at 8:30 p.m. Reports requested—QRA still the same old P. O. Box 951. (Harris—Mass., Caldwell—Mass.)

Sweden

SBI on 15150 kcs. at Motala heard signing off at 4:30 p.m. and announcing the station as SBI. R6 was the signal strength. (Eders—Minn.)

SBT on 15155 kcs. heard on Wednesday evenings 8-9 p.m. (Blanchard R485, N. Y., and Lund—R376, Pa.)

Thailand

HS6PJ on 19020 kcs. at Bangkok, Thailand (formerly Siam) heard at 9 a.m. with R7 signal (Eders—Minn.)

Turkey

TAP on 9454 kcs. at Ankara heard signing off around 4:50 p.m. and using Turkish National Anthem for signature theme. (Skyten—R786, Mass., and Eders—Minn.)

U.S.A.

KGEI verified this morning signed by E. T. Buck Harris, manager. It is a very handy card veri for any DX listener as it has on the reverse a map of the world with time zones for the principal cities of the world. (Atwood—1355, D.C.)

WCBX complete schedule:

21570 kcs. daily 8 a.m. to 12:30 p.m. for Europe.

15270 kcs. daily 1-3:30 p.m. and Sun. till 2:30 only for Europe.

11830 kcs. daily 4-6 p.m. and Sun. 3-6 to Europe and 6:30-10: p.m. including Sun. for So. America.

9650 kcs. daily 10:30 p.m. to 11:30 p.m. including Sun. for So. America.

6120 kcs. (Dec.) and 6170 kcs. (Nov.) midnight to 2 a.m. for South America. (RX)

WMI on 8585 kcs. at Lorain, Ohio verified my report. They broadcast on this frequency at 10 p.m. (Flynn—R937, Sask.)

WRCA on 9670 kcs. and WNBI on 17780 kcs. verify with red and white cards showing pictures of the RCA Mfg. Co., and the RCA building. (Szabo—R1302, N. J.)

WRUL is the final call adopted by the former W1XAL and the W1XAR call is now WRUW in spite of the fact that FCC assignment originally fixed the calls as WSLA and WSLR. (Varga—Ill.)

W6XUJ on 8850 kcs. and 13500 kcs. (approx.) at Treasure Island, Calif. working the yacht "Contender." (Caldwell—R1319, Mass.)

W9XF and WCBI (W9XAA) have ceased all operations—W9XF permanently. Both stations are in Chicago. (Callan—Mass.)

U. S. S. R.

RNE on 12000 kcs. at Moscow heard on Wednesday at 4 p.m. and also on a Tuesday at 3 p.m. with Kremlin chimes. Signalat R9. RNE also reported at 10:15 p.m. with R8 signal. (Piechuta—Conn., and Eders—Minn.)

RV96 on 15180 kcs. at Moscow heard with news in English at 7 p.m. and still on the air at 11:45 p.m. (Eders—Minn.)

Vatican City

HVJ on 13600 kcs. heard on a Wednesday announcing a schedule, but I was unable to copy. (Bonifield, R1318, N. J.)

Venezuela

YV1RX on 4890 kcs. at Maracaibo signs off at 9:30 p.m. with the national anthem and 10 chimes. (Bennett—R1342, N. J.)

(Continued on Page 43)

Turner Dial Boosts The Short Waves

By
B. Francis Dashiell

Turner Dial finished his lunch and rose from the table. The Elite Restaurant, presided over by a large, cordial and busy person known as Sally, had offered a seasonal turkey special dinner. Turner had enjoyed his, and said so. Then as he paid his check, reached for a mint, and turned toward the door, Sally stopped him.

"Wait a moment!" she insisted. "I want a radio for the restaurant. With all this war news going on I'll have to break down and get a radio. I hate 'em! They rattle and shout all over the place and you can't hear the orders when they're given. But my customers keep asking why I don't have a radio so they can get the news and comments while eating."

The amazed look on Turner's face made Sally grin. She was one person he hadn't been able to sell. He'd even argued to himself that he ought to stop eating at the Elite just out of revenge. But where else, he thought, could he enjoy such lunches? It would be punishment to his stomach, and, after all, Sally didn't have to buy a radio if she hated them.

"Drop in at the store when things are quiet," suggested Dial. "I have what you need for this place. When all is said and done you'll enjoy it, too." Sally grunted, and Turner departed for his shop a few doors down the street.

Bill Wod, the young assistant at Higrade Radio Sales and Service, was talking to a customer. "Here's Mr. Dial," remarked Bill. "He'll tell you about what you need."

A middle-aged man turned to Dial. "I have a good radio," he began, "but my neighbor has one that picks up foreign stations. I go over there to listen to the war news that comes directly from London and English-speaking stations. It is great business!" The speaker paused, and continued: "You know I've never been



excited over these foreign stations, but now it seems I simply must be able to hear them when I wish."

"You're just one of many," commented Dial as he watched Bill Wood depart for his lunch. His thoughts turned to Sally and her changed attitude toward radio because of the demands of her public. Certainly Bill would be surprised when Sally told him she was getting a radio. Then, turning to his customer Turner Dial said: "This war in Europe has boosted radio. Customers come in here and say they haven't been interested in distance and only listen to locals with a broadcast set. But now they're changing and we've sold a hundred receivers just since the war. Everybody wants short-wave tuning so it seems."

Evening in America is midnight on Europe's battle fields and the radio comment comes after the day's activities have let down. Turner knew that people wanted the latest news and that a great boost in all-wave receivers strong enough to bring in signals at any time was sweeping the country. Dial had helped many of his fellow-townsmen improve their DXing, and now that they had started on Europe's war, they were fast becom-

ing real DX fans and wanted world-wide reception.

The customer was standing before a fine new console. Turner hesitated a moment. Here was a possible sale. However, he said: "You don't want that set. You have a fine broadcast receiver that would get Europe if it could tune to those particular wave bands. What you need is a short-wave converter or high-frequency expander as some now call it. Here is one." And Turner set a small radio-like cabinet on the counter. "This unit works efficiently and will expand the broadcast band of your set from a present limit of 1,500 kilocycles to more than 25,000 kilocycles, more than is necessary for good short-wave reception from any place."

"Will you come to my home and demonstrate it?" asked the customer. Turner agreed, and said he would show him that night. He promised good, loud war news right away.

Bill Wood returned, and excitedly announced that Sally was coming down to look at the set. But just then the telephone rang. Turner answered, spoke a few words, and hung up. Turning to Bill, he said: "Say! I've got to go out right away and demonstrate a preselector. If Sally comes in show her this radio and deliver it if she wants it. Don't let her get another one for this is the only one she can use in the lunch room.

In a few minutes Turner Dial was entering an office building in the next block. He passed into a newspaper office and opened a door marked "Editor." An elderly gentleman waved Turner to a seat, and said: "I thought I might get some war news here in the office direct from Europe and have a reporter translate the comments from France and Germany. That beats our wire services. But this all-wave set I had at home can't compete with the noise and clatter of this place. A friend said I could use a booster and then we could hear without difficulty."

"And I told you that you could do just that" answered Turner Dial.

"Here it is. Its known as a signal amplifier or preselector. This one is excellent but not so inexpensive either. It has five tuned radio-frequency amplification. That's a lot of R-F amplification in any man's radio layout. The band switch covers 6 bands and matches the broadcast and short-wave bands on most any all-wave radio, such as this. It boosts the weak signals on any one of these bands, including the broadcast band. And this little volume control makes it possible to hold your receiver down to its former normal loudness or raise it far above anything it has attempted and beyond your imagination."

The editor expressed his interest. "Sounds too good to be true, but I guess modern radio science has improved a lot in the past few years. Try it out and let's see how it works!"

"You will see" Turner Dial continued "this little unit has its own power supply built in. You simply plug it into the wall socket. Then you hook up this two-wire connection to the doublet antenna terminals of your radio. And that's that!"

Dial turned on the unit as well as the radio, then began to tune very slowly with the knob of the preselector unit. "This is a precision unit, and must be tuned very carefully," he instructed the veteran newspaper man. Suddenly a foreign voice spoke and the volume became too intense even in the noisy news room. Turner cut it down. "That's Moscow" he exclaimed. "And here are others. Listen to 'em!"

"Why that works fine!" said the editor as he called enthusiastically to his associates to listen. "Now we can get this war stuff right off the bat from headquarters and pass some of it on to our readers!"

As Turner walked back to the store he passed the Elite Restaurant. The door opened for a customer and a radio voice came to Turner's well-trained ears. Dial smiled to himself.

(Please turn to Page 43)

Dxer's Appointment Calendar

The time shown in this Calendar is EST. For CST, subtract 1 hour; for MST, subtract 2 hours; for PST, subtract 3 hours; for GMT, add 5 hours.

Clubs: Newark News Radio Club (NNRC); Universal Radio DX Club (URDXC); National Radio Club (NRC); International DXers Alliance (IDA); DXers International Exchanges Club (DXIEC); World DX Alliance (WDXA).

Nov. 24, 8 pm, meeting of Brooklyn-Metropolitan Chapter, The Radex Club, 6637 Ovington Court, Brooklyn, N. Y.

Nov. 24, 2-3 am, WGRC, New Albany, Ind., 1370 kcs., "Parade Across Indiana," for NNRC.

Nov. 26, 3-5:30 am, KOVO, Provo, Utah, 1210 kcs. (NRC).

Dec. 3, 3-4 am, XEFC, Merida, Yuc., 1340 kcs. (IDA).

Dec. 4, 8 pm, meeting of Irvington Chapter of The Radex Club, 870 Sanford Ave., Irvington, N. J.

Dec. 8, 3-4 am, CFGP, Grande Prairie, Alta., 1200 kcs. (NRC).

Dec. 8, 1:30-5:30 am, WJAG, 1060 kcs., Norfolk, Nebr.

Dec. 8, 1:30-5:30 am, WJAG, 1060 kcs., Norfolk, Nebr.

Dec. 8, 4-5 am, CKLN, Nelson, B. C., 1420 kcs., (NRC). (This date may be changed to Dec. 14, 4:30-5:30 am. Listen for this program on Dec. 14 if not heard on the 8th).

Dec. 9, 2-4 am, KFPUO, St. Louis, Mo., 550 kcs. (Gospel messages and music. Reporters will receive a worthwhile and attractive souvenir).

Dec. 10, 4-5 am, CFRN, Edmonton, Alta., 960 kcs. (NRC).

Dec. 10, 4-5 am, CKNX, Wingham, Ont., 1200 kcs., (NRC).

Dec. 11, 4-5 am, CKBI, Prince Albert, Sask., 1210 kcs. (NRC).

Dec. 12, 4:40-4:55 am, KRGV, Weslaco, Tex., 1260 kcs. (Irvington Chapter).

Dec. 14, 4-5 am, XEDL, Navojoa, Son., 1240 kcs. (URDXC). (Send IRC or 10 cvos. Mexican stamp for veri. KFJZ will be off the air for this program).

Dec. 14, 4:20-4:35 am, KFIZ, Fond du Lac, Wis., 1420 kcs. (NNRC).

Dec. 14, 4:30-5:30 am, CKLN, Nelson, B. C., 1420 kcs. (NRC). (Will be broadcast on this date if not on the 8th).

Dec. 17, 1-1:30 am, YNDG, Leon, Nicaragua, 13900 kcs. (IDA).

Dec. 17, 2-4 am, WCKY, Covington, Ky., 1490 kcs. (NNRC).

Dec. 17, 4-5 am, CJCJ, Calgary, Alta., 690 kcs. (NRC).

Dec. 17, 2:30-2:45 am, TG1 on 1310 and TG2 on 6190 kcs, Guatemala City, Guat. (DXIEC).

Dec. 24, 12:30-1 am, YN3DG, Leon, Nicaragua, 13900 kcs. (DXIEC).

Dec. 29, 8 pm, meeting of Brooklyn-Metropolitan Chapter, The Radex Club, at 6637 Ovington Court, Brooklyn.

Jan. 3, 4-5 am, CJCS, Stratford, Ont., 1210 kcs. (NRC).

Jan. 7, 4-5 am, WWNC, Asheville, N. C., 570 kcs. (WDXA).

Jan. 13, 3-4 am, CHLT, Sherbrooke, P. Q., 1210 kcs. (NRC).

Jan. 13, 4-5 am, CFAR, Flin Flon, Man., 1370 kcs. (NRC).

Jan. 15, 12:30-1 am, KOB, Albuquerque, N. Mex., 1180 kcs. (IDA).

Jan. 18, 4-5 am, CKOV, Kelowna, B. C., 630 kcs. (NRC).

Jan. 28, 4-5 am, HOK, Colon, Panama, 640 kcs. (URDXC).

Jan. 28, 4-5 am, HP5K, Colon, Panama, 6005 kcs. (URDXC) (Send IRC or unused Panamanian stamps for veri).

Feb. 4, 4:30-5:30 am, XEDE, Torreón, Coah., 1400 kcs. (URDXC).

Feb. 11, 4-5 am, XEQK, Mexico City, 1500 kcs. (URDXC).

Feb. 25, 4:30-5:30 am, XETB, Torreón, Coah., 1310 kcs. (URDXC)

XEDE and XETB are both owned by Aurelio G. Zaragoza. Reports are urgently requested, but it is advisable to send an IRC or unused Mexican stamps for veries.

NOTE—The National Radio Club is arranging a series of special programs from Canadian stations, and some programs may be scheduled after this list appears in print. DXers who are interested can get the latest dates by sending a postal card to the NRC at 317 E. 10th St., Erie, Pa.

Regular DX Programs

First day of month, 4:4:30 am, WPAY, 1370 kcs., Portsmouth, Ohio.

Last day of month, 3-5 am, KWSC, 1220 kcs., Pullman, Wash.

Every Saturday, 2:30-2:45 am, KLS, 1280 kcs., Oakland, Calif.

Every Saturday, 10:15-10:30 am, WEEU, 830 kcs., Reading, Pa.

Every Saturday at 10 pm, YN3DG, 13900 kcs., Leon, Nicaragua. (Spatari—10c for veries).

Every Saturday, 4:15-4:45 pm, W2XJI, 26300 kcs., Newark, N. J. (NNRC tips).

Every Saturday, 10 pm, YN3DG, 13900 kcs., Leon, Nicaragua. (Spatari program).

Every Sunday, 2-2:30 am, TG1 on 1310 and TG2 on 6190 kcs., Guatemala City, Guat.

Every Sunday, 10:15-10:45 am, CFCO, 630 kcs., Chatham, Ont.

Every Sunday, 3-5 am, XEAC, 980 kcs., Tijuana, B. Cfa.

Every Sunday, 12:30-1 am, TGQA on 6400 and TGO on 1450 kcs., Quezaltenango, Guatemala. (Spatari program, all reports verified free).

First Sunday, at 1 am, YN3DG, 13900 kcs., Leon, Nicaragua. (Spatari program).

First and Third Sunday, 2-4 am, WJBO, 1120 kcs., Baton Rouge, La.

Every Tuesday, 11:45 am-noon, W9XA, 26450 kcs., Kansas City, Mo.

Every Wednesday, 12:30 am, KOY, 1390 kcs., Phoenix, Ariz.

First and Third Wednesday, 1:45-2 pm, WTAR, 780 kcs., Norfolk, Va.

Every Thursday, 2:45-3 am, KSL, 1130 kcs., Salt Lake City, Utah. (Spatari announcements).

1st to 7th, midnight to 6 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).

8th to 14th, midnight to 2 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).

15th to 31st, midnight to 6 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexico souvenirs sent to reporters).

Second Friday, 12:30-1 am, WJAG, 1060 kcs., Norfolk, Nebr.

The Monthly Frequency Checks

FOR the purpose of checking the frequencies of small stations which cannot be heard satisfactorily on their regular daily transmissions, the Federal Communications Commission requires monthly monitoring broadcasts from a selected group of stations. Following is the latest available. All time is am., Eastern Standard.

		Second Monday					
2:55-3:10	1310	WBRK	Pittsfield, Mass.	5:10-5:25	1200	KGEK	Sterling, Colo.
3:00-3:15	1370	WABY	Albany, N. Y.	5:15-5:30	1370	KFJZ	Fort Worth, Tex.
3:05-3:20	1420	WMAS	Springfield, Mass.	5:20-5:35	1420	WMBH	Joplin, Mo.
3:10-3:25	1200	WCAX	Burlington, Vt.	5:25-5:40	1200	WIL	St. Louis, Mo.
3:15-3:30	1370	WRDO	Augusta, Maine	5:30-5:45	1370	WOC	Davenport, Iowa.
3:20-3:35	1420	WAGM	Presque Isle, Me.	5:35-5:50	1420	KABC	San Antonio, Tex.
3:25-3:40	1210	WHAJ	Greenfield, Mass.	5:40-5:55	1200	KADA	Ada, Oklahoma
3:30-3:45	1390	WQDM	St. Albans, Vt.	5:45-6:00	1370	KLUF	Galveston, Texas
3:35-3:50	1310	WMFF	Plattsburg, N. Y.	5:50-6:05	1190	KTKC	Visalia, Calif.
3:45-4:00	1220	WCAD	Canton, N. Y.	5:55-6:10	1400	KHBC	Hilo, Hawaii.
3:45-4:00	1500	KVWC	Vernon, Texas	6:00-6:15	1370	KRE	Berkeley, Calif.
3:50-4:05	1310	WLNH	Laconia, N. H.	6:05-6:20	1500	KXO	El Centro, Calif.
3:55-4:10	1200	WIBX	Utica, N. Y.	6:10-6:25	1200	KGW	Stockton, Calif.
4:00-4:15	1500	WWRL	Woodside, N. Y.	6:15-6:30	1370	KERN	Bakersfield, Calif.
4:00-4:15	1370	KVRS	Rock Springs, Wyo.	6:20-6:35	1420	KUMA	Yuma, Arizona.
4:05-4:20	1310	WMBO	Auburn, N. Y.	6:25-6:40	1200	KVCV	Redding, Calif.
4:10-4:25	1210	WBRB	Red Bank, N. J.	6:30-6:45	1280	KLS	Oakland, Calif.
4:10-4:25	1420	KDNT	Denton, Texas	6:35-6:50	1040	KYOS	Merced, Calif.
4:15-4:30	1500	KPAB	Laredo, Texas	6:40-6:55	1200	KSUN	Lowell, Arizona.
4:20-4:35	1310	KVOX	Moorhead, Minn.	6:45-7:00	1100	KGDM	Stockton, Calif.
4:25-4:40	1210	KFPW	Fort Smith, Ark.	6:50-7:05	1450	KIEM	Eureka, Calif.
4:30-4:45	1370	WMIN	St. Paul, Minn.				
4:35-4:50	1420	KNET	Palestine, Texas				
4:40-4:55	1200	WBBZ	Ponca City, Okla.				
				4:45-5:00	1370	KFGQ	Boone, Iowa
				4:50-5:05	1420	KRBC	Abilene, Texas
				4:55-5:10	1200	KGHI	Little Rock, Ark.
				5:00-5:15	1370	KTEM	Temple, Texas
				5:05-5:20	1390	KABR	Aberdeen, S. D.

6:55-7:10	1200	KVEC San Luis Obispo	4:05-4:20	610	WCLE Cleveland, Ohio.
7:00-7:15	1310	KARM Fresno, Calif.	4:10-4:25	1210	KALB Alexandria, La.
7:05-7:20	1420	KGLU Safford, Arizona	4:10-4:25	1310	WLBC Muncie, Indiana.
Second Tuesday					
2:55-3:10	1210	WRAL Raleigh, N. C.	4:15-4:30	1500	WOPI Bristol, Tenn.
3:00-3:15	1310	WSJS Winston-Salem, N. C.	4:15-4:30	1200	WWAE Hammond, Indiana
3:05-3:20	1420	WMFJ Daytona Beach, Fla.	4:20-4:35	1420	WACO Waco, Texas.
3:10-3:25	1200	WAIM Anderson, S. C.	4:20-4:35	1410	WBCM Bay City, Mich.
3:15-3:30	1370	WMFD Wilmington, N. C.	4:25-4:40	1440	KXYZ Houston, Texas.
3:20-3:35	1420	WEED Rocky Mount, N. C.	4:25-4:40	1210	WSIX Nashville, Tenn.
3:25-3:40	1200	WJNO West Palm Beach, Florida.	4:25-4:40	1310	WCMI Ashland, Ky.
3:25-3:40	1210	WJMC Rice Lake, Wis.	4:30-4:45	1370	KGKL San Angelo, Tex.
3:30-3:45	1500	WRDW Augusta, Georgia.	4:30-4:45	1200	WHBY Green Bay, Wis.
3:35-3:50	610	WIOD Miami, Florida.	4:35-4:50	1420	KCMC Texarkana, Texas
3:35-3:50	940	WICA Ashtabula, Ohio.	4:35-4:50	1310	KSGN Birmingham, Ala.
3:40-3:55	1200	WAYX Waycross, Ga.	4:35-4:50	1390	WHK Cleveland, Ohio.
3:40-3:55	1210	WLOK Lima, Ohio.	4:40-4:55	1260	KRGV Weslaco, Texas.
3:45-4:00	1500	WDNC Durham, N. C.	4:40-4:55	1210	WCOV Montgomery, Ala.
3:45-4:00	1370	WPAY Portsmouth, Ohio	4:40-4:55	1320	WADC Akron, Ohio.
3:50-4:05	1250	WAIR Winston-Salem, N. C.	4:45-5:00	1370	KTOK Oklahoma City, Okla.
3:55-4:10	1310	KWOC Poplar Bluff, Mo.	4:45-5:00	1200	WJHL Johnson, City, Tenn.
3:55-4:10	1200	WMFR High Point, N. C.	4:45-5:00	1500	WJBK Detroit, Mich.
3:55-4:10	1210	WALR Zanesville, Ohio	4:50-5:05	1420	KGFF Shawnee, Okla.
4:00-4:15	1500	WHBB Selma, Alabama.	4:55-5:10	1210	KFVS Cape Girardeau, Mo.
4:00-4:15	550	WKRC Cincinnati, Ohio	5:00-5:15	1370	KMAC San Antonio, Texas
4:05-4:20	1420	KFAM St. Cloud, Minn.	5:05-5:20	1310	KAND Corsicana, Tex.

5:10-5:25	1210	KLAH Carlsbad, N. Mexico	3:25-3:40	1210	WBAX Wilkes-Barre, Pa.
5:15-5:30	1370	KIUP Durango, Colo.	3:30-3:45	1310	WHAT Philadelphia, Pa.
5:20-5:35	1310	KOCY Oklahoma City, Okla.	3:35-3:50	1500	WRTD Richmond, Va.
5:25-5:40	1210	KDLR Devils Lake, N. D.	3:40-3:55	1210	WBBL Richmond, Va.
5:30-5:45	1370	KICA Clovis, N. Mexico	3:45-4:00	1370	WBNY Buffalo, N. Y.
5:35-5:50	1320	KGMB Honolulu, Hawaii	3:45-4:00	1310	KOME Tulsa, Oklahoma.
5:40-5:55	1200	KBTM Jonesboro, Ark.	3:50-4:05	1410	WHIS Bluefield, W. Va.
5:45-6:00	1370	KRMC Jamestown, N. D.	3:50-4:05	1500	KWEW Hobbs, New Mexico
6:05-6:20	1420	KORE Eugene, Oregon.	3:55-4:10	1210	WKOK Sunbury, Pa.
6:10-6:25	1200	KOOS Marshfield, Ore.	4:00-4:15	1310	WFBG Altoona, Pa.
6:20-6:35	1500	KPQ Wenatchee, Wash.	4:05-4:20	1420	KRIC Beaumont, Texas.
6:25-6:40	1200	KFXD Nampa, Idaho	4:05-4:20	880	WQAN Scranton, Pa.
6:30-6:45	1370	KUJ Walla Walla, Wash.	4:05-4:20	1500	WGIL Galesburg, Ill.
6:35-6:50	1500	KRNR Roseburg, Ore.	4:10-4:25	1200	KWNO Winona, Minn.
6:40-6:55	1200	KVOS Bellingham, Wash.	4:10-4:25	1400	WHDL Olean, N. Y.
6:45-7:00	1370	KEEN Seattle, Wash.	4:15-4:30	1330	KRIS Corpus Christi, Tex.
6:55-7:10	780	KWLK Longview, Wash.	4:15-4:30	1310	WEBR Buffalo, N. Y.
7:00-7:15	1370	KRKO Everett, Wash.	4:15-4:30	1370	WIBM Jackson, Mich.
7:05-7:20	1420	KLBM La Grande, Ore.	4:20-4:35	1500	KBST Big Spring, Texas
7:10-7:25	1200	KAST Astoria, Ore.	4:20-4:35	1420	WPAR Parkersburg W. Va.
		Second Wednesday	4:25-4:40	1430	KSO Des Moines, Iowa
2:55-3:10	1200	WEST Easton, Pennsylvania	4:25-4:40	1250	WKST New Castle, Pa.
3:00-3:15	1310	WTEL Philadelphia, Pa.	4:25-4:40	1200	WCLO Janesville, Wis.
3:05-3:20	1500	WBNF Binghamton, N. Y.	4:30-4:45	1310	KROC Rochester, Minn.
3:10-3:25	1200	WLVA Lynchburg, Va.	4:30-4:45	780	WPIC Sharon, Pa.
3:15-3:30	1310	WSAJ Grove City, Pa.	4:30-4:45	1370	WEOA Evansville, Ind.
3:20-3:35	1500	WWSW Pittsburgh, Pa.	4:35-4:50	1500	KDAL Duluth, Minn.

4:35-4:50	1210	WJLS Beckley, W. Va.	3:00-3:15	1500	Second Thursday WKAT Miami Beach, Fla.
4:35-4:50	1420	WELL Battle Creek, Mich.	3:05-3:20	1200	WJRD Tuscaloosa, Ala.
4:40-4:55	1120	WTAW College Sta, Tex.	3:10-3:25	1210	WSOC Charlotte, N. C.
4:40-4:55	1200	WHBC Canton, Ohio.	3:15-3:30	1310	WAML Laurel Miss.
4:45-5:00	1310	KRMD Shreveport, La.	3:20-3:35	1370	WPRA Mayaguez, P. R.
4:45-5:00	1370	WSAU Wausau, Wis.	3:25-3:40	1210	WPAX Thomasville, Ga.
4:50-5:05	1500	KNEL Brady, Texas	3:30-3:45	560	WQAM Miami, Florida.
4:50-5:05	1420	WLAP Lexington, Ky.	3:35-3:50	1420	WPRP Ponce, P. R.
4:55-5:10	560	KFDM Beaumont, Texas.	3:40-3:55	1200	WFTC Kinston, N. C.
4:55-5:10	1200	WFAM South Bend, Ind.	3:45-4:00	1240	WKAQ San Juan, P. R.
5:00-5:15	1310	KPDN Pampa, Texas.	3:50-4:05	1440	WBIG Greensboro, N. C.
5:00-5:15	1370	WHLS Port Huron, Mich.	3:50-4:05	1500	WDAN Danville, Ill.
5:05-5:20	1500	KPLT Paris, Texas	3:55-4:10	1210	WFOY St. Augustine, Fla.
5:05-5:20	1420	WCBS Springfield, Ill.	4:00-4:15	1370	WAGF Dothan, Ala.
5:10-5:25	570	KGKO Fort Worth, Texas	4:05-4:20	1500	KPLC Lake Charles, La.
5:15-5:30	1310	KFPL Dublin, Texas.	4:05-4:20	1310	WFDF Flint, Mich.
5:15-5:30	1370	WDWS Champaign, Ill.	4:10-4:25	1210	WGRM Grenada, Miss.
5:15-5:30	1500	KAWM Gallup, N. Mexico	4:10-4:25	1340	WSPD Toledo, Ohio.
5:20-5:35	1420	WPAD Paducah, Ky.	4:15-4:30	1370	WMFO Decatur, Ala.
5:25-5:40	1210	KGLO Mason City, Iowa	4:15-4:30	1200	WCPO Cincinnati, Ohio
5:25-5:40	1200	WJBC Bloomington, Ill.	4:20-4:35	1500	WKEU Griffin, Ga.
5:30-5:45	1310	KRRV Sherman, Texas	4:20-4:35	1420	KFIZ Fond du Lac, Wis.
5:30-5:45	1370	WGL Fort Wayne, Ind.	4:25-4:40	1210	WGCM Gulfport, Miss.
5:35-5:50	1500	KGKY Scottsbluff, Neb.	4:25-4:40	630	WGBF Evansville, Ind.
5:40-5:55	1210	WIBU Poynette, Wis.	4:30-4:45	1310	KFYO Lubbock, Texas
5:45-6:00	1310	KRBA Lufkin, Texas.	4:30-4:45	1370	WFOR Hattiesburg, Miss.

4:30-4:45	940	WAVE Louisville, Ky.	5:55-6:10	1210	KIUL Garden City, Kan.
4:35-4:50	1410	KFJM Grand Forks, N. D.	5:55-6:10	1260	KVOA Tucson, Arizona
4:35-4:50	1430	WMPS Memphis, Tenn.	6:00-6:15	1200	KVNU Logan, Utah.
4:35-4:50	1500	WTMV East St. Louis, Ill.	6:05-6:20	1310	KHUB Watsonville, Calif.
4:40-4:55	1240	KGCU Mandan, N. Dak.	6:10-6:25	1420	KSAN San Francisco, Calif.
4:40-4:55	1200	WBHP Huntsville, Ala.	6:15-6:30	1370	KGAR Tucson, Arizona.
4:40-4:55	1380	KQV Pittsburgh, Pa.	6:20-6:35	1310	KSRO Santa Rosa, Calif.
4:45-5:00	1310	KWOS Jefferson City, Mo.	6:25-6:40	740	KTRB Modesto, Calif.
4:45-5:00	880	WCOC Meridian, Miss.	6:30-6:45	1070	KJBS San Francisco, Calif.
4:45-5:00	1370	WGRC New Albany, Ind.	6:35-6:50	1310	KSUB Cedar City, Utah
4:50-5:05	1500	KOTN Pine Bluff, Ark.	6:40-6:55	1210	KDON Monterey, Calif.
4:55-5:10	760	WEW St. Louis, Mo.	6:45-7:00	750	KGU Honolulu, T. H.
4:55-5:10	1420	WJMS Ironwood, Mich.	6:50-7:05	1260	KHSL Chico, Calif.
5:00-5:15	1320	KGHF Pueblo, Colo.	6:55-7:10	1210	KROY Sacramento, Calif.
5:00-5:15	1370	WHDF Calumet, Mich.	3:00-3:15	1370	Second Friday WSVS Buffalo, N. Y.
5:05-5:20	1500	KGFI Brownsville, Texas	3:05-3:20	1310	WJAC Johnstown, Pa.
5:05-5:20	1310	WTRC Elkhart, Indiana	3:10-3:25	1210	WJTN Jamestown, N. Y.
5:10-5:25	1210	KHBG Okmulgee, Okla.	3:15-3:30	1370	WBLK Clarksburg, W. Va.
5:15-5:30	1370	KONO San Antonio, Tex.	3:20-3:35	1420	WLEU Erie, Pa.
5:20-5:35	1500	KGKB Tyler, Texas.	3:25-3:40	1280	WCAP Asbury Park, N. J.
5:25-5:40	1210	KASA Elk City, Okla.	3:25-3:40	1210	WSAY Rochester, N. Y.
5:30-5:45	1370	KFRO Longview, Texas	3:30-3:45	550	WDEV Waterbury, Vt.
5:35-5:50	1500	KNOW Austin, Texas	3:30-3:45	1310	WGH Newport News, Va.
5:40-5:55	1210	WMFG Hibbing, Minn.	3:35-3:50	1500	WCNW Brooklyn, N. Y.
5:45-6:00	1420	KRLH Midland, Texas.	3:35-3:50	1420	WMBS Uniontown, Pa.
5:50-6:05	1310	KCRJ Jerome, Arizona	3:40-3:55	1210	WFAS White Plains, N. Y.

3:40-3:55	1350	WMBG Richmond, Va.	4:45-5:00	1310	WEXL Royal Oak, Mich.
3:45-4:00	1430	WOKO Albany, N. Y.	4:50-5:05	1500	WQMI Owensboro, Ky.
3:45-4:00	1310	WRAW Reading, Penn.	4:55-5:10	1200	KFJB Marshalltown, Ia.
3:50-4:05	1500	WSYB Rutland, Vt.	5:00-5:15	1230	KGGM Albuquerque, N. M.
3:50-4:05	1370	WDAS Philadelphia, Pa.	5:00-5:15	1310	WBEO Marquette, Mich.
3:55-4:10	1210	KWJB Globe, Arizona.	5:05-5:20	1420	KGIW Alamosa, Colo.
3:55-4:10	1290	WNBZ Saranac Lake, N. Y.	5:05-5:20	1500	WKBV Richmond, Ind.
3:55-4:10	570	WSYR Syracuse, N. Y.	5:10-5:25	1200	KGDE Fergus Falls, Minn.
4:00-4:15	1310	WBRE Wilkes-Barre, Pa.	5:15-5:30	1370	KGFL Roswell, N. Mexico
4:05-4:20	1500	WNLC New London, Conn.	5:15-5:30	1310	WEMP Milwaukee, Wis.
4:05-4:20	1370	WBTM Danville, Va.	5:20-5:35	1420	KEUB Price, Utah.
4:10-4:25	1210	WGBB Freeport, N. Y.	5:25-5:40	1200	WCAT Rapid City, S. D.
4:10-4:25	1430	WHEC Rochester, N. Y.	5:35-5:40	1210	WEBQ Harrisburg Ill.
4:15-4:30	1200	WTHT Hartford, Conn.	5:30-5:45	1370	KWYO Sheridan, Wyoming
4:15-4:30	1420	WAZL Hazleton, Pa.	5:35-5:50	1420	KIDW Lamar, Colo.
4:20-4:35	1500	WMBQ Brooklyn, N. Y.	5:40-5:55	1200	KFXJ Grand Junction, Colo.
4:20-4:35	1370	WRAK Williamsport, Pa.	5:45-6:00	1230	KGBX Springfield, Mo.
4:25-4:40	1220	WGNV Newburg, N. Y.	5:50-6:05	1310	KVSF Santa Fe, N. Mexico
4:25-4:40	1310	WBOW Terre Haute, Ind.	5:55-6:10	1370	KOKO La Junta, Colo.
4:30-4:45	1200	WJBL Decatur, Ill.	3:30-3:45	1420	Second Saturday WGNC Gastonia, N. C.
4:35-4:50	1420	KATE Albert Lea, Minn.	3:30-3:45	1200	WTOL Toledo, Ohio.
4:35-4:50	1500	WKBB Dubuque, Iowa.	3:35-3:50	1500	WKBZ Muskegon, Mich.
4:35-4:50	1370	WBTH Williamson, W. Va.	3:40-3:55	1210	WJW Akron, Ohio.
4:40-4:55	890	KARK Little Rock, Ark.	3:45-4:00	1420	WNOE New Orleans La.
4:40-4:55	1210	WJIM Lansing, Mich.	3:45-4:00	1430	WBNS Columbus Ohio.
4:45-5:00	1370	WHLB Virginia, Minn.	3:50-4:05	1200	WOLS Florence S. C.

3:50-4:05	1450	WGAR Cleveland Ohio.	4:40-4:55	1310	WTJS Jackson, Tenn.
3:55-4:10	1500	KSAM Huntsville Tex.	4:40-4:55	1210	WTAX Springfield, Ill.
3:55-4:10	1310	WLAK Lakeland, Fla.	4:45-5:00	1290	KLCN Blytheville, Ark.
3:55-4:10	1210	WCOL Columbus, Ohio.	4:45-5:00	1370	WMBR Jacksonville, Fla.
4:00-4:15	1360	WQBC Vicksburg, Miss.	4:45-5:00	1200	WMPC Lapeer, Mich.
4:00-4:15	1070	WCAZ Carthage, Ill.	5:50-5:05	1270	KGCA Decorah, Iowa.
4:05-4:20	1120	WJBO Baton Rouge, La.	4:50-5:05	1420	WSLI Jackson, Miss.
4:05-4:20	1380	WING Dayton, Ohio.	4:50-5:05	1050	WEAU Eau Claire, Wis.
4:10-4:25	1500	KUTA Salt Lake City, Utah.	4:55-5:10	1210	KOCA Kilgore, Texas.
4:10-4:25	1310	WTAL Tallahassee, Fla.	4:55-5:10	1310	KVOL Lafayette, La.
4:10-4:25	1210	WOMT Manitowoc, Wis.	5:00-5:15	1500	KBIX Muskogee, Okla.
4:15-4:30	1370	KIUN Pecos, Texas.	5:05-5:20	1260	KPAC Port Arthur, Tex.
4:15-4:30	1290	WNEL San Juan, P. R.	5:05-5:20	1370	WHBQ Memphis, Tenn.
4:15-4:30	570	WOSU Columbus, Ohio.	5:10-5:25	1210	KANS Wichita, Kansas
4:20-4:35	1420	WMSD Muscle Shoals City, Ala.	5:10-5:25	1310	WROL Knoxville, Tenn.
4:20-4:35	1020	WDZ Tuscola, Ill.	5:15-5:30	1290	KTRH Houston, Texas
4:25-4:40	1500	KYSM Mankato, Minn.	5:15-5:30	1200	KMLB Monroe, La.
4:25-4:40	1310	WGTM Wilson, N. C.	5:20-5:35	1360	KLPM Minot, N. Dak.
4:25-4:40	1210	WHBU Anderson, Ind.	5:20-5:35	1420	WHMA Anniston, Ala.
4:30-4:45	1450	KCMO Kansas City, Mo.	5:25-5:40	1210	KVSO Ardmore, Okla.
4:30-4:45	1200	WJBW New Orleans, La.	5:25-5:40	1500	WSTP Salisbury, N. C.
4:30-4:45	570	WKBN Youngstown, Ohio.	5:30-5:45	1270	KWLC Decorah, Iowa
4:35-4:50	1010	WNAD Norman, Okla.	5:35-5:50	1310	KTSM El Paso, Texas
4:35-4:50	1420	WGCP Albany, Georgia.	5:40-5:55	1210	KWTN Watertown, S. Dak.
4:35-4:50	1240	WXYZ Detroit, Mich.	5:45-6:00	760	WLB Minneapolis, Minn.
4:40-4:55	1500	KOVC Valley City, N. D.	5:50-6:05	1370	KOHB Rapid City, S. Dak.

5:55-6:10	1210	KPFA Helena, Mont.	6:30-6:45	1310	KXRO Aberdeen, Wash.
6:00-6:15	1250	KIT Yakima, Wash.	6:35-6:50	1450	KGCX Wolf Point, Mont.
6:05-6:20	900	KGBU Ketchikan, Alaska	6:40-6:55	1120	KFIO Spokane, Wash.
6:10-6:25	1210	KFJI Klamath Falls, Ore.	6:45-7:00	1430	KINY * Juneau, Alaska
6:15-6:30	1310	KGEZ Kalispell, Mont.	6:50-7:05	780	KFQD Anchorage, Alaska
6:25-6:40	1210	KGJ Olympia, Wash.	6:55-7:10	1390	KRLC Lewiston, Idaho

Turner Dial

(Continued from page 34)

Well Sally had her radio, and Bill had delivered it. Turner peered through the window and there was Sally turning at the dial and grinning like a child with a new toy. Several customers stood around and seemed to be listening. Dial turned away and continued his march back to Higrade's successful, little store and service shop.

Bill Wood was working back at the service bench, but a small radio was telling of the day's war events. Turner dropped into his favorite but well-worn desk chair and pulled out his pipe. "This war certainly has boosted short-wave radio," he said to Bill. "Everybody is listening to Europe. They use old sets and new sets which have to have lots of power these days to satisfy. With old broadcast sets they use converters, and with small, weak all-wave sets they use signal amplifiers or preselectors. And even auto radios use converters for short wave reception."

Shortwaves

(Continued from page 32)

Yugoslavia

YUG on 15240 kcs. heard irregularly from 8-9 p.m. with program for North America. Signs on and off the air with horn signal and anthem. (Eders—Minn., and Harris—Mass.)

NOTE: It must be remembered that the stations reserve the right to alter schedules at will and that even

official schedules may at times differ from those in use at the time of reading.

RL—Your East Coast Editor, Worcester, Mass.

RX—All official news

R36, Mich. 1: Carl Sylvester, Columbiaville, Mich.

R49: David Hill, Washington, D.C.

R133: Carl Forestieri, Bronx, New York City

R141: Al Pickering, West Medway, Mass.

R184: Carl Eder, Willmar, Minn.

R185: Anne Eder, Willmar, Minn.

R211, T.H. 2: C. J. Fern, Lihue, Hawaii

R376: Harold Lund, Erie, Penna.

R485: Robert L. Blanchard, Brooklyn, N.Y.

R552: M. F. Williams, Newark, N. J.

R577: Nicholas Evangelista, West Hamburg, Pa.

R615: Edward Shirley, Jamestown, N. Y.

R626, Tenn. 3: Bill Scott, Johnson City, Tenn.

R638, Vt. 5: Edward Harper, West Burke, Vt.

R649: Russell Carter, Jackson, Mich.

R689: Robert W. May, Rome, Ga.

R786: Robert Skyten, East Brookfield, Mass.

R937: Wm. W. Flynn, Dummer, Sask.

R987: Desmond Callan, Readville, Mass.

R1092: Ray Schaffar, Waterloo, Iowa

R1160: Jack Fern, Clifton, N. J.

R1269: Joseph A. Piechuta, Meriden, Conn.

R1302: William Szabo, New Brunswick, N. J.

R1305: Carl Horton, Athol, Mass.

R1318: Kyle C. Bonifield, Asbury Park, N. J.

R1319: Alton L. Caldwell, Jr., Brockton, Mass.

R1342: Henry Bennett, Collingswood, N. J.

R1355: Robert M. Atwood, Washington, D.C.

Al Bartholomew, Bradford, N. Y.

Joseph Cazaneuve, Montreal, P.Q.

Warren Dame, Saxonville, Mass.

Leon Grossman, Rochester, N. Y.

James J. Halsema, Durham, N.C.

Gilbert L. Harris, North Adams, Mass.

John D. Long, Dalton, Ga.

George C. Starry, Latrobe, Pa.

John Varga, Chicago, Illinois

Jim Walker, Romney, W. Va.

Bob Wilson, Portland, Me.

NOTE: If you have a RADEX CLUB indicia, please use it always when writing. Otherwise you may find yourself listed with non-members.

The SHORTWAVE STATIONS

● The shortwave list, arranged by frequencies in kilocycles, 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.

Time is Eastern Standard.

Subtract 1 hour for Central, 2 hours for Mountain and 3 hours for Pacific.

2320 TGWC	Guatemala City, Guat. 1 kw. See TGWA. Sun, 10:30 am-5:15 pm; 7 pm-midnight. Other days, 7:45-9 am; 12:45-3:45 pm; 7:30 pm-12:15 am.	4810 YV1RU	Maracaibo, Venez. "Radio-difusora Maracaibo," Luis Mantellini H.
2340 HOA	Panama City, Panama. "Ron Dalley," Salvador Graziani, Box 1121. (6-10 pm).	4815 HJ2BAB	Cucuta, Colombia. 600 w. Relays HJ2BAC, "La Voz de Cucuta."
2437 HRN	Teguicigalpa, Honduras, 500 w. Noon-1:30 pm; 7-10:30 pm. "La Voz de Honduras."	4820 YV3RN	Barquisimeto, Venez. "Radio Barquisimeto," Amilcar Segura.
3400 YV5RW	Caracas, Venez. "Radio Turmerito," Cesar Banuls.	4825 HJ5EAD	Calli, Colombia, 720 w. "La Voz del Valle."
3450 YV6RC	Barcelona, Venez. Gobierno Edo Anzoategui.	4830 YV5RH	Caracas, Venez. Relays YV5RG, "Ondas Populares," Gonzalo Veloz Mancera, Apto. 1931.
3480 YV3RF	Acarigua, Venez. "La Voz del Llano," Pausides Sigala.	4835 HJ1ABE	Cartagena, Colombia, 525 w. Relays HJ1ABF, "La Voz de los Labs. Fuentes," Apartado 31.
3480 2ZB	Wellington, New Zealand. 200 w. At 7 am.	4840 VUC2	Calcutta, India, 10 kw. 7:30 am-1 pm. All-India Radio.
3488 XZZ	Rangoon, Burma. 50 w. W. J. Byrnes, Burma Independent Wireless Sub-Division, Strand Road. (Sun, 8:30-10:30 pm; Daily 5:30-9 am; 8:20-10:30 pm).	YV4RX	Maracay, Venez. "Radio Maracay," Luis Croquer.
3490 CR7AB	Lourenco Marques, Mozambique. Sun, 5-7 am; 10 am-2 pm; Weekdays, midnight to 1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm. Radio Club de Mocambique, Box 594.	4845 HJ3CAD	Bogota, Colombia, 720 w. "Nueva Granada."
3500 YV5RV	La Guaira, Venez. "Emisora Vargas," Gonzalo Veloz Mancera.	4850 YV1RZ	Trujillo, Venez. "Radio Valera," L. Febres Jelambi.
4002 CT2AJ	Ponta Delgada, Azores. Wed, Sat, 5-7 pm.	4860 YV1RL	Maracaibo, Venez. 300 w. Relays YV1RK "Radio Popular," sign off "National Emblem March." Jose A. Higuera, Apartado 247. (6-11 pm).
4107 HCJB2	Quito, Ecuador. 1 kw. 7-8:15 am; 11:30 am-2:30 pm; 2:45-10:15 pm. "Broadcasting Provincial," Clarence W. Jones, Casilla 691.	4865 HJ2BAJ	Santa Marta, Colombia. 751 w. 10:30 am-2 pm; 5-11 pm. "La Voz de Santa Marta."
4273 RV15	Khabarovsk, U.S.S.R. 20 kw. 4-10 am. Miss Rowena Meyer, Radio Committee.	4870 YV2RN	San Cristobal, Venez. "La Voz del Tachira," Jesus Diaz Gonzalez.
4300 4ZB	Dunedin, New Zealand. 30 w. At 6 am.	4875 HJ6FAH	Armenia, Colombia, 600 w. 9 am-2 pm; 6-11:30 pm. "La Voz de Armenia."
4770 YV1RT	Maracaibo, Venez. "La Voz de la Fe," Pedro A. Bermudez V.	4878 ZTD	Durban, Union of S. Africa. See "Johannesburg." (11:45 pm-12:50 am).
4775 HJGAB	Bucaramanga, Colombia, 750 w. 6-10:45 pm. "Radio Santandar."	4880 VUB2	Bombay, India, 10 kw. 8 am-1 pm. All-India Radio.
4780 YV1RO	Trujillo, Venez. "Radio Trujillo," Pedro J. Torres.	YV6RU	Ciudad Bolivar, Venez. "Ecos del Orinoco," E. Torres Valencia.
4785 HJ1ABB	Barranquilla, Colombia. 600 w. Relays HJ1ABA, "La Voz de Barranquilla," Apartado 715. Interval signal, 3 chimes.	4885 HJ4DAP	Medellin, Colombia, 501 w. Relays HJ4DAQ, 9 am-2 pm; 7 pm-midnight. "Emisora Claridad."
4790 YV5RY	Caracas, Venez. "La Voz de la Esfera," Edmundo Suegart.	4890 YV1RX	Maracaibo, Venez. "Ondas del Lago," Nicolas Vale Quintero.
4795 HJ3CAF	Bogota, Colombia, 750 w. La Voz de Bogota.	4895 HJ3CAH	Bogota, Colombia, 720 w. "La Voz de la Victor." Relays HJ3CAI, Almacenes Victor, Apto. 365.
HJ6FAI	Ibague, Colombia, 501 w. "Ecos del Combeima."	4900 YV6RT	Ciudad Bolivar, Venez. "Radio Bolivar," Miranda & Behrens.
4800 YV1RV	Maracaibo, Venez. "Ecos del Zulia," Luis Garcia.	4910 YV1RY	Coro, Venez. "Radio Coro," Roger Leyba.
4805 HJ6FAB	Manizales, Colombia, 501 w. "Radio Manizales."	4920 VUM2	Madras, India, 10 kw. 7:30 am-1 pm. All-India Radio.

	YV5RU	Caracas, Venez. "Estudios Universo," Mario Garcia Arocha.	6000 CXA2	Montevideo, Uruguay. 5 kw. Cia. de Radio Publicidad Continental, J. C. Gomez
4930	YV4RP	Valencia, Venez. "Radio Valencia," Luis Croquer.	HH2S	1431. 10 am-10 pm. Port-au-Prince, Haiti. Societe Haitienne de Radiodiffusion, Box 103. (7-10 pm).
4940	YV5RO	Caracas, Venez. "La Voz de Venez.," Marquis y Linares.	RV59	Moscow, U.S.S.R. 7-9:15 pm.
4950	YV4RO	Valencia, Venez. "La Voz de Carabobo," Herman Degwitz.	XEBT	Mexico City, D. F. 500 w. Interval signal, cuckoo calls, and sign off with "Liebestraume." El Buen Tono, S. A., Apartado 79-44. 11 am-1 am.
4960	VUD2	Delhi, India. 10 kw. 7:30 am-1 pm. All-India Radio.	6005 CFCX	Montreal, P. Q. 75 w. Relays CFCF. Canadian Marconi Co., Ltd., Box 1690. Sun, 10 am-11:15 pm. Weekdays 7:45 am-1 am.
	YV5RS	Caracas, Venez. "Radio Libertador," Victor M. Soto.	HP5K	Colon, Panama. 200 w. Relays HOK, "La Voz de La Victor, Apartado 33. Noon-2 pm; 6 am-midnight.
4975	YV1RJ	Coro, Venez. "Radio Falcon," J. A. Mendoza.	6007 XYZ	Rangoon, Burma. 1500 w. Burma Independent Wireless Sub-Division, W. J. Byrnes, Strand Road. Sun, 8:30-10:30 pm; Daily 5:30-9 am; 8:20-10:30 pm).
4980	YV5RT	Caracas, Venez. "Gobierno Nacional."	ZRH	Pretoria, Union of So. Africa. 5 kw. See "Johannesburg." Sat, 9:30 am-4:45 pm; Sun, 8:40 am-noon; 12:15-3:15 pm; Other days, 9:30 am-3:30 pm; 11:45 pm-12:50 am.
4990	YV3RX	Barquisimeto, Venez. "La Voz de Lara," Arturo Ramos Maggi.	6010 CJCX	Sydney, N. S. 1 kw. Relays CJCB. Eastern Broadcasters, Ltd., Radio Bldg. Sun, noon-1:30 pm; Weekdays 9 am-2:30 pm.
5000	YV5RK	Caracas, Venez. Gobierno Nacional.	PRA8	Recife, Brazil. 5 kw. "A Vox do Norte," Radio Club do Brasil, Avenida Cruz Cabuga 394. Time signals at Noon and 7 pm Brazil Time. Sign off with national anthem. 9 am-noon; 1-3 pm; 4-9 pm.
5010	YV5RM	Caracas, Venez. "Radiodifusora Venez.," Degwitz y Sibletz.	6015 HI3U	Santiago de los Caballeros, D. R. 100 w. "La Voz del Comercio," Fernando Bertran, Apartado 23. Sign off "Mario la O" on organ and national anthem. 7:15-9 am; noon-2 pm; 4:45-8 pm.
5020	YV4RQ	Puerto Cabello, Venez. Radio Pto. Cabello," Rafael A. Segura.	XEW1	Mexico City, D. F. 400 w. Institucion Municipal de la V. L., Mina 56.
5040	YV5RN	Caracas, Venez. Radio Caracas," Almacan Americano.	6020 DJC	Berlin, Germany. 50 kw. See "Berlin." 11:30 am-4:25 pm.
5146	PMY	Bandoeng, Java, N. E. I. 1 kw. Sat, 8 pm-3:30 am. Sun, 5:30 am-noon. Other days, 5:30 am-noon; 7 pm-3 am.	XEUW	Veracruz, Ver. C. 20 w. "El Eco de Sotavento desde Veracruz," Av. Independencia 98. Verifies for 3c USA stamp. 8 am-midnight.
5300	ZIK3	Belize, Brit. Honduras. (8:30-8:50 pm).	6025 HI1J	San Pedro de Macoris, D. R. 100 w. Fausto M. Donastorg, Aptdo 204. (8-11 pm).
5713	TGS	Guatemala City, Guat. 200 w. Wed, Thur, Sat, 6-9 pm. Radiotransmisora de la Casa Presidencial.	6030 CFVP	Calgary, Alta. 100 w. Voice of the Prairies, Ltd., Toronto General Trusts Bldg. (Thur, 9 am-1 am; Sun, noon-midn't.)
5824	TIGPH	San Jose, Costa Rica. 1 kw. "Alma Tica," Gonzalo Pinto H., Aptdo. 800. (7 pm-midn't).	HP5B	Panama City, Panama. 100 w. Estacion Radiodifusora Miramar de la Radio Panama, Apartado 910. 5-10 pm.
5875	HRN	Tegucigalpa, Honduras. 500 w. "La Voz de Honduras," Mr. Paul John. Interval, notes from national anthem, and signs off with "Goodnight Waltz." 8 pm-midnight.	6035 TI7RVM	Las Juncas, C. Rica. 500 w. "La Voz del Guanacasto," Ruben Venegas M.
5880	ZEA	Salisbury, Southern Rhodesia. 325 w. Gen'l. P. O., Station Sec'y., Box 792. Sun, 3-5 am.		
5940	PJC1	Willemstad, Curacao. 150 w. "Radio Curon," Curacaosche Radio Vereeniging, Emmastad, Curacao. 7:45-9:35 pm.		
5945	TG2X	Guatemala City, Guat. 200 w. "Policia Nacional." Tue, Wed, Fri, 11 am-1 pm. Sat, 11 am-3 pm.		
5975	CS2WD	Lisbon, Portugal. 250 w. Radio Renascenca, Rua do Capelo 5-2 esq.		
	OAX4P	Huancayo, Peru. 250 w. "Radio Andina Junin," J. Alberto Maduana, Cuzco 25.		
5980	VONG	St. John's, Newfoundland. Newfoundland Brdcastg. Corp. Relays VONF. 8:30 am-12:30 pm; 4:30-9:30 pm.		
5984	HJ4DAG	Quibdo, Colombia. 150 w. "La Voz del Choco.		
5995	VUD2	Delhi, India. 10 kw. All-India Radio. 7:30 am-12:30 pm.		

- 6040 KZIB Manila, Philippines. I. Beck Inc., Box 440. (4-10 am; 6 pm-12:30 am).
- 6040 WSLA Boston, Mass. 20 kw. See WSLA.
- WDJM Miami, Fla. 5 kw. 10 pm-1 am. Relays WIOD. Ruth Richardson, Isle of Dreams Broadcasting Corp.
- YDA Tandjong Priok, N.E.I. 10 kw. NIROM. Sign off, "End of a Perfect Day."
- 6042 HJ1ABG Barranquilla, Colombia. 600 w. Relays HJ1ABH. "Emisora Atlantico," Aptdo. 445.
- 6044 ZP14 Villarrica, Paraguay. 1 kw. "Radio Cultura."
- 6045 XETW Tampico, Tams. 100 w. Relays XEFW, Flores y Martinez, Francisco 1, Madero 204 Ote. Sun, 10 am-4 pm. Weekdays, 10 am-10 pm.
- 6053 VK9MI M. V. "Kanimbila." 50 w. Sign off "God Save the King." McLlwraith & McEacharn, Ltd., Melbourne, Australia. (7:15 am).
- 6054 HJ6FAB Pereira, Colombia. 501 w. "La Voz de Pereira."
- 6055 Bern, Switzerland. 25 kw. See eBrn."
- 6060 VQ7LO Nairobi, Kenya. Cable & Wireless, Ltd., Box 777. 11 am-2:30 pm.
- 6060 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (Sun, 6:30-11 pm; Tu, F, 6:30-11 pm; Wed, 6:30-8:30 pm).
- WLWO Cincinnati, Ohio. 10 kw. See "WLWO."
- 6065 SBO. Stockholm, Sweden. 500 w. 5:15-5 pm. Telegrafverket Tjanstebrev 5.
- 6070 CFRX Toronto, Ont. 1 kw. Sun, 10:30 am-midnight. Weekdays 7:30 am-midnight. Relays CFRB. Rogers Radio Broadcasting Co., 622 Fleet St.
- 6079 DJM Berlin, Germany. 50 kw. See Berlin."
- 6080 CKFX Vancouver, B. C. 10 w. Relays CKFC Standard Brdctg. Sys., 1504 Sun Bldg. 2 pm-midnight.
- HP5F Colon, Panama.
- WCBI Chicago, Ill. 500 w. See "WCBI."
- 6080 XEQQ Mexico City, D. F.
- 6082 OAX4Z Lima, Peru. 10 kw. Radio Nacional." Relays OAX4A, Av. Petit Thouars 447.
- 6090 ZNS Nassau, Bahamas. Superintendent of Telegraphs, Box 48 (No postage required for veries).
- 6097 1/2 ZRJ Johannesburg, Union of So. Africa. 200 w. See "Johannesburg." Sat, midnight to 12:50 am; 3:15-7 am; 8:30-11:30 am; Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 8:40-11:30 am; Other days, 3:15-7 am; 9 am-1:30 pm; 11:45 pm-12:50 am.
- ZRK Capetown, Union of So. Africa. 5 kw. See "Johannesburg." Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am;
- 9 am-11:45 am; noon-3:20 pm; Weekdays, 3:20-7:20 am; 9-11:45 am; noon-4 pm; 11:45 pm-12:50 am.
- 6100 KZRH Manila, Philippines. "Radio Heacock," Escolta. (5-11 pm).
- 6100 W9XF Chicago, Ill. 10 kw. Relays NBC-WENR. Audience Mail Dept., NBC, Inc., Merchandise Mart. Sat, 1:05-2 am; 4-5:30 pm; Sun, 1-5:45 pm; Other days, 1:05-2 am; 4-5:45 pm.
- YUA Belgrade, Yugoslavia. 1 kw. 12:45 am-5:30 pm. "Radio Beograd," Bureau Central de Presse, Poste Emetteur a Ondes Courtes. Announce in Serbian, Italian, English, German, Turkish, Hungarian, Albanian, and Greek. (12:45 am-5:05 pm).
- 6105 HI3C La Romana, D. R. 30 w. A. Herrero Hernandez.
- 6110 GSL London, Gt. Britain. "L for Liberty." See "London."
- XEGW Mexico City, D. F. 250 w. Jose G. Garza Fox, San Juan de Letran 81.
- 6116 Saigon, Fr. Indo-China. "Radio Saigon." (6 am).
- 6120 WCBX New York, N. Y. 10 kw. See "WCBX." (Midnight-2 am).
- 6122 HI8T San Cristobal, D. R. 30 w. Raul Henriquez.
- 6122 FK8AA Noumea, New Caledonia. Relays FJP. Announces, "Ici Noumea," and signs off with Marsellaise. 44 rue de l'Alma. Tues, Sat, 2:30-3:30 am.
- HJ3CAZ Bogota, Colombia. 750 w. Relays HJ3CAZ. La Voz de Colombia. Aptdo 772. (Heard on 6012 kcs). (Sun, Noon-1:30 pm; 6-11 pm; Other days 10:30 am-2 pm; 5:30-11:30 pm.)
- TGWB Guatemala City, Guat. 1 kw. Sun, 10:30 am-5:15 pm; 7 pm-midnight. Weekdays, 7:45-9 am; 12:45-3:45 pm; 7:30 pm-12:15 pm. See TGWA.
- 6130 CHNX Halifax, N. S. 500 w. Sat, 8 am-11:30 pm; Sun, noon-11:15 pm; other days, 7 am-11:15 pm. Maritime Broadcasting Co., Lord Nelson Hotel
- COCD Havana, Cuba. 250 w. Relays CMCD. "La Voz del Aire," S. A., Sr. J. Benitez, Aptdo. 2294.
- LKJ Oslo, Norway, 5 kw. See "Oslo."
- 6132 VP3BG Georgetown, British Guiana. Brit. Guiana United Brdctg. Co., Box 11. (10:30 am-11:30 am; 4-8 pm).
- XEXA Mexico City, D. F. 100 w. Depto. de Publicidad y Propaganda, Sr. Jose Rivera.
- 6137 OR7AA Lourenco Marques, Port. East Africa. Radio Club de Mocambique. Caixa Postal 594. Sun, 5-7 am; 10 am-2 pm; Weekdays, midnight-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm.

- 6140 KZRF Manila, Philippines. "Radio Filipinas," Insular Life Bldg. (5:30-11 pm).
- WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (11 am-noon).
- 6145 HJ4DAE Medellin, Colombia. 700 w. "La Voz de la Antioquia."
- 6147 ½ ZRD Durban, Union of So. Africa. 200 w. See "Johannesburg."
- Sat, 3:30-7:30 am; 9-11:15 am; Sun, 5:30-7 am; 9-11:16 am; Weekdays, 11:45 pm-12:50 am.
- 6150 CJRO Winnipeg, Man. 2 kw. James Richardson & Sons, Ltd., 157 Royal Alexandra Hotel.
- 6150 TIEMC San Jose, C. Rica. 250 w. "Radio El Mundo," Rafael Hine Ch.
- 6165 TILS San Jose, Costa Rica. 2 kw. "Para Ti," Luis Saenz Mata, Apto. 3.
- 6165 Bern, Switzerland. 25 kw. See "Bern."
- 6170 HI4V San Francisco de Macoris, D. R. 100 w. Luis R. Betances R.
- 6174 XEXA Mexico City, D. F. Relays XEXM, Departamento Autonomo de Frensa Publicidad (DAPP). Sign off, "March of the Toys." 8:30 am-midnight.
- 6185 HI1A Santiago de los Caballeros, D. R. 75 w. "La Voz del Yaque," Rafael Western. (Weekdays, 8-10 pm).
- 6190 HVJ Vatican City. 15 kw. Mon, Thur, Sat, 2-3:30 pm; Tues, Fri, 2-3 pm; Wed, 2:2-3:30 pm; 3-3:30 pm. See HVJ.
- 6190 KGEL San Francisco, Calif. 20 kw. See "KGEL."
- 6190 TG2 Guatemala City, Guat. 200 w. "Radio Morse," Director General of Electrical Communications. (Sat, 7:30-9 am; 6 pm-1 am; Sun, 7:30-11 am; 3-8 pm; Other days, 7:30-9 am; 6-11 pm).
- WGEO Schenectady, N. Y. 40 kw. See "WGEO."
- Athlone, Ireland.
- 6200 COKG Santiago de Cuba. 1200 w. Relays CMKG. "Ask For Bacardi." Sres. Grau y Caminero, Apto. 137. Daily exc. Sat, 9 am-11 pm.
- XEXS Mexico City, D. F. 100 w. Departamento de Salubridad Publica.
- ZGE Kuala Lumpur, F.M.S. Institute of Medical Research. Sun, Tue, Fri, 6:40-8:40 am. Saigon, Fr Indo-China. "Radio Boy-Landry," Establishments Boy-Landry. 5:30-9 am.
- 6235 HRD2 La Ceiba, Honduras. 250 w. 8-11 pm. "La Voz de Atlantida."
- 6243 HI1N Trujillo, D. R. 700 w. Weekdays, noon-2:30 pm; 5:45-10 pm. Sign off national anthem. Relays HIN. J. M. Bonetti Burgos.
- 6280 HI1G Trujillo, D. R. 200 w. Relays HI1G. Andres Cordero Puello.
- 6282 COHB Sancti-Spiritus, Cuba 150 w. Relays CMHB, V. E. Wiess y O. Ramirez, Calle Independencia 33. 9-11 pm.
- 6295 OAX4G Lima, Peru. 400 w. Relays OAX4B, "Radio Grellaud," Roberto Grellaud y Cia., Sen Abencay 915-23 (7-9:30 pm).
- 6312 ZP14 Villarica, Paraguay, 1 kw. "Radio Cultura."
- 6316 HI1Z Trujillo, D. R. 100 w. Relays HI1Z. Frank Hatton.
- 6330 COCW Havana, Cuba. 7 am-midnight. Relays CMW. "La Voz de las Antillas," Apartado 130.
- 6335 OAX1A Chiclayo, Peru. 200 w. "La Voz de Chiclayo." Elias Aguirre 171, Casilla 9. Sign off, "Good Night Waltz." (Sat, 10 pm-midnight; Other days, 8-11 pm).
- 6340 HI1X Trujillo, D. R. 900 w. Relays HI1X. J. R. Saladin. (Tues, Fri, 8-10 pm).
- 6351 HRP1 San Pedro Sula, Honduras. 100 w. 12:30 pm-12:30 am. "El Eco de Honduras."
- 6355 IAC Rome, Italy. See "Rome." (3-3:35 pm).
- 6380 ZIZ Basseterre, St. Kitts. (Reported on 6384). Daily 4-5 pm; Wed, 7-7:30 pm.
- 6383 HI9B Santiago, D. R. 200 w. Jacinto L. Sanchez, Apto. 95.
- 6420 HI1S Santiago de los Caballeros, D. R. 200 w. "La Voz de La Hispaniola." Generoso Sarnelli. (6-11 pm).
- TGQA Quezaltenango, Guat. 200 w. Relays TGQ. "La Voz de Quezaltenango," Director General of Electrical Communications. (Sat, 10 pm-1 am; Sun, 1-3 pm; Other days, 9-11 pm).
- 6425 W2XGB Hicksville, N. Y. 10 kw. Press Wireless, Inc.
- 6480 HI1L Santiago, D. R. 100 w. "Emisora Nacional," Maria J. Tavarez, Calle Pres. Trujillo 97. (6:30-8 am; 5:30-7 pm; 8-9:45 pm).
- 6480 TGWB Guatemala City, Guat. 1 kw. (Reported on 6495). See TGWA.
- 6500 HIL Trujillo, D. R. 60 w. J. C. Teixido, Apto. 623.
- 6550 TIRCC San Jose, C. Rica. 500 w. Accion Catolica, Prbo. Carlos Borge, Apto. 1064.
- 6565 HI5P Puerto Plata, D. R. 30 w. J. M. Modesto.
- 6590 COCU Havana, Cuba. Jorge Garcia Serra, Estrada aPlma 25, Vibora. (Sun, 6:55 am-midnight; Weekdays, 6:55 am-8 pm).
- 6600 HI6P Trujillo, D. R. 100 w. Emilio Garden, Jr.
- 6622 PRADO Rio Bamba, Ecuador. Fabrica de Tejidos de "El Prado," Apto. 98. (Thur, 9-11 pm).
- 6630 HIT Trujillo, D. R. 100 w. "La Voz de La RCA-Victor," F. A. Sanabia, Apto. 1105. Interval, bells; sign off, na-

- tional anthem. (Sun, 10:45 pm-12:45 am; Weekdays, 5:45-8:45 pm).
- 6638 HC2RL Guayaquil, Ecuador. 200 w. "Quinta Piedad," Dr. Roberto Levi, Casilla 759. Interval, "Hello, America," sign off, national anthem. (Sun, 5:30-7:30 pm; Tues, 9-11 pm).
- 6660 HI6Y Trujillo, D. R. 30 w. Alfonso Cuervo.
- 6675 HBQ Geneva, Switzerland. "Radio Nations." (Sun, 1:45-2:45 pm).
- 6690 VK8SK Broken Hill, Australia. At 2:30 am. Australian Aerial Medical Service.
- 6700 TIEP San Jose, C. Rica. 1 kw. "La Voz del Tropico," Eduardo Pinto H., Aptdo. 257. (4-11 pm).
- 6710 PMH Bandoeng, Java, N.E.I. 1500 w.
- 6780 HIIH San Pedro de Macoris, D. R. 250 w. "La Voz de Higuanamo," Domingo Dominguez.
- 6800 PZH Paramaribo, Surinam.
- 6960 Z2B Wellington, New Zealand. 200 w. Amateurs.
- 7000 to 7300 Valladolid, Spain. 7:30 am-5:30 pm.
- 7010 XPSA Kweiyang, China. 10 kw. (Reported on 6970 and 7140). (5:30-10:55 am).
- 7088 PI1J Dordrecht, Netherlands. 50 w. Technical College. (Sat, 10 am-12:50 pm).
- 7090 FO8AA Papeete, Tahiti. Radio Club Oceanien. (Tues, Fri, 11 pm-midnight).
- 7100 EA9BJ Spanish Morocco.
- 7177 CR6AA Lobito, Angola. (Wed, Sat, 2:45-4:30 pm).
- 7200 EA8AE Las Palmas, Canaries. (Reported on 7150).
- 7220 12RO11 Rome, Italy. 100 kw. See "2RO."
- 7222 YV9AB In Venezuela on Guiana-Brazil Border. Expedicion Tecnico de Minería y Geologia, Ministerio de Fomento, Caracas.
- 7260 FET8 Spanish Morocco. (5-7 pm).
- 7270 EA8AS Tenerife, Canaries. Relays EAJ43. (Wed, 4-5 pm).
- 7300 VIG Port Moresby Papua. Relays 4 pm. A call sign, not time.
- 7310 Madrid, Spain. "Radio Nacional."
- 7380 XECR Mexico City, D. F. 20 kw. Secretaria de Relaciones Exteriores. (Sun, 6-8 pm).
- 7435 FG8AH Pointe-a-Pitre, Guadeloupe. "Radio Guadeloupe," box 125. (6-7:30 pm).
- 7500 EAJ43 Santa Cruz de Tenerife, Canaries. Relays "Radio Nacional of Burgos." (8-9 am).
- 7510 JVP Tokyo, Japan. 50 kw. See "Tokyo" at end of list.
- 7797 HBP Geneva, Switzerland. "Radio Nations." (Sat, 5:30-6:30 pm).
- 7894 YSD San Salvador. Relays YSS, "Alma Cuscatleca." Director General de Telegrafos, Telefonos, y Radio Nacionales.
- 8650 HJ4DAU Medellin, Colombia. 250 w. Universidad Antioquia.
- 8664 COJK Camaguey, Cuba. 1 kw. 11:30 am-12:30 pm; 8-10 pm. (Reported on 8660 and 8680). Relays CMJK, "Radio Zenith," Jones Castellon y Cie., Finlay #3.
- 8700 COCO Havana, Cuba. 1 kw. Relays CMCK, Luis Casas Romero, Aptdo. 98.
- 8820 HCJB Quito, Ecuador. 1 kw. "La Voz de los Andes," Clarence
- 8830 COCQ Havana, Cuba. 1 kw. Relays CMQ, "De La RCA-Victor," Calle 25 No. 225. (Reported on 8850).
- 9030 COBZ Havana, Cuba. 250 w. Relays CMBZ, "Radio Salas," Aptdo. 866. Opens, nightingales and canaries; interval, 4 chimes; closes, national anthem. (6:45 am-1 am).
- 9100 COBX Havana, Cuba. Relays CMBX. Alberto Alvarez, San Miguel 194.
- 9125 HAT4 Budapest, Hungary. 20 kw. Sun, Wed, 7-8 pm; Sat, 6-7 pm. Radiolabor, Kiserleti Allomasa, Gyali-ut 22, Budapest IX.
- 9125 HC2CW Guayaquil, Ecuador. "Ondas del Pacifico," Aptdo 1166.
- 9163 HC1GQ Quito, Ecuador. "Radiodifusora Nariz del Diablo," Sign off, "Blue Danube Waltz," Guayaquil & Quito R. R. Co., Aptdo. 159. (8:30-11 pm).
- 9234 Bucuresti, Romania. 2 kw. "Radio Experimental," Societatea Romana de Radiodifuziune, Str. Gral. Berthelot 60.
- 9290 HI2G Trujillo, D. R. 200 w. Relays HIG. Andres Cordero Puello.
- 9295 XTC Shanghai, China. (8-9 am).
- 9350 H8SPJ Bangkok, Thailand (formerly "Siam"). Post and Telegraph Dept.
- Fort de France, Martinique. "Radio Fort de France."
- 9363 COBC Havana, Cuba. Relays CMBC, "El Progreso Cubano," Aptdo 132. (6:55 am-midnight). (Reported on 10000).
- 9400 Saigon, Fr. Indo-China. 10 w. "Radio Michel-Robert," (Weekdays, 7-8:30 am).
- 9415 PJC2 Willemstad, Curacao. "Radio Curom," Emmastad.
- 9415 PLV Bandoeng, Java, N.E.I. 80 kw. Governments Radio-Dienst.
- 9437 COCHI Havana, Cuba. 5 kw. Cadena Azul de Radio. Prado 63. (Sun, 8 am-10 pm; other days, 8 am-midnight).
- 9465 TAP Ankara, Turkey. 20 kw. 11:30 am-5 pm. See "Ankara."
- 9500 KZIB Manila, P. I. I Beck, Inc., (4-10 am; 6 pm-12:30 am).
- 9500 OFD Lahti, Finland. 1 kw. See "Lahti." (Weekdays, 5-6:30 am; 10 am-5 pm.)

- 9500 PRF5 Rio de Janeiro, D. F., Brazil. 12 kw. "A Vox do Brasil." Cia. Radio Internacional do Brasil, Marapicu, D. F. (4:45-5:45 pm).
- XEWW Mexico City, D. F. 10 kw. 8:55 am-midnight. "La Voz de la America Latina desde Mexico." Aptdo. 2516. Relays XEW. Cadena Radio-difusora Mexicana.
- XGOY Lungso, China.
- 9503 XEXA Mexico City, D. F. 100 w. (until 1 am).
- 9510 CXA8 Colonia, Uruguay. 2500 w. Relays, LR3. "Real de San Carlos." (6 am-10 pm).
- 9510 GSB London, Gt. Britain. 20 kw. "B for Broadcasting." See "London." (1:30-3:50 am; 6:20-9:15 pm; 9:40-11:30 pm).
- HS8PJ Bangkok, Thailand (formerly "Siam"). Opening and interval signals, 3 ascending chimes. Post and Telegraph Dept., Col. Phra Aram.
- VK3ME Melbourne, Australia. 5 kw. Weekdays, 4-7 am. Amalgamated Wireless, (A/sia), Ltd., 167 King St.
- 9520 OZF Copenhagen, Denmark. 6 kw. 2-6 pm; 10-11 pm. Stats-radiofonien, Heibergsgade 7.
- XEDQ Guadalajara, Jal. 100 w. "Hablando a los Continentes desde Guadalajara," Relays XED, Aptdo. 197. Interval, 4 chimes; sign off, "Jarabe Tapatio."
- 9523 ZRG Pretoria, Union of So. Africa. 5 kw. See "Johannesburg." (Sat, 5-7 am; 9:30 am-4:45 pm; 11:45 pm-12:50 am; Sun, 5:30-7 am; 8:30 am-noon; 12:15-3:15 pm; Other days, 5-7 am; 9:30 am-3:30 pm; 11:45 pm-12:50 am).
- 9524 Luxembourg. "Radio Luxembourg." (11 am-1 pm).
- 9525 ZBW3 Hong Kong. 2500 w. Hong Kong Broadcasting Committee, Box 200.
- 9530 KGEI San Francisco, Calif. 20 kw. See "KGEI." (3-9 am).
- 9530 LKC Oslo, Norway. 5 kw. See "Oslo."
- VUC2 Calcutta, India. 10 kw. 2:30-4:30 am. All-India Radio.
- WGEO Schenectady, N. Y. 40 kw. See WGEA."
- 9535 JZI Tokyo, Japan. 20 kw. See "Tokyo." (4:40-5:30 pm).
- Bern, Switzerland. 25 kw. See "Bern."
- 9536 VPD2 Suva, Fiji. 2 kw. Amalgamated Wireless, (A/sia), Ltd. (5:30-7 am).
- 9540 DJN Berlin, Germany. 50 kw. (12:05-2:30 am; 4:50-10:50 pm). See "Berlin" at end of list.
- 9544 HH2S Port-au-Prince, Haiti. Societe Haitienne de Radio-diffusion, Boite Postal 103.
- 9550 HVJ Vatican City. 15 kw. Wed, 2:30-3 pm; Sun, 5-5:30 am. See HVJ.
- TPB11 Paris, France. 25 kw 11:15 pm-6 pm. See "Paris" at end of list.
- VUB2 Bombay, India. 10 kw. 12:30-4 am; 5-7:30 am; 10-11 pm. All India Radio.
- WGEO Schenectady, N. Y. 25 kw. See "WGEO."
- 9560 DJA Berlin, Germany. 50 kw. See "Berlin." (6:30-10:30 pm).
- 9562 OAX4T Lima, Peru. 10 kw. "Radio Nacional." Relays OAX4A. (Reported on 9560). Peruvian Gov't., Av. Petit Thouars 447. (7-8 am; 11:30 am-1:30 pm).
- 9570 KZRM Manila, Philippines. 5 kw. "Radio Manila," Far Eastern Brdcastg. Co., Insular Life Bldg. (4-10:30 am; 4:30-7 pm; 11 pm-12:30 am).
- 9570 WBOS Springfield, Mass. 10 kw. Relays NBC-WBZ-WBZA. Westinghouse Electric & Mfg. Co.
- WPIT Pittsburgh, Pa. 40 kw. See "WPIT."
- 9580 GSC London, Gt. Britain. 20 kw. "C for Corporation." See "London." (1:30-4 pm; 4:20-6 pm; 6:25-9:20 pm; 9:40-11:30 pm).
- VLR Melbourne, Vic., Australia. 2000 w. 3:15-9:45 am. See VLR.
- 9585 KZEH Manila, Philippines. Box 119.
- 9590 HP5J Panama City, Panama. 1 kw. (Reported on 9610). 6:30-11 pm. "La Voz de Panama." Apartado 867.
- PCJ Huizen, Netherlands. 60 kw. See "Hilversum." (Sun, 1:40-3 pm; 7:15-9:50 pm; Tu, 1:45-3:30 pm; 7-10:15 pm; W, 7:15-8:40 pm; F, 8-9 pm).
- VK2ME Sydney, Australia. 20 kw. Sun, 1-3 am; 5-11 am. Signature, laughing notes of kookaburra. Amalgamated Wireless, (A/sia), Ltd., 47 York St. (Sun, midn't-2 am; 4:30-8:30 am; 11:30 am-1:30 pm).
- VK6ME Perth, Australia. 5 kw. Weekdays, 6-8 am. Amalgamated Wireless, (A/sia), Ltd.
- VUD2 Delhi, India. 10 kw. 2-4:15 am; 8 am-1 pm; 10 pm-midnight. All-India Radio.
- VUD3 Delhi, India. 5 kw. 8 am-1 pm. All-India Radio.
- 9590 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (M, Th, Sat, 6:30 pm-2 am; Wed, 9 pm-2 am). Cincinnati, Ohio. 10 kw. See "WLWO."
- 9595 HBL Geneva, Switzerland. 20 kw. "Radio Nations."
- 9600 CB960 Santiago de Chile. (6 pm).
- 9600 XEYU Mexico City, D. F. (9-11 pm).
- 9606 ZRL Capetown, Union of So. Africa. 5 kw. See "Johannesburg." (Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 9:11:45 am; noon-3 pm; Weekdays, 3:20-7:20 am; 9-11:45 am; noon-4 pm; 11:45 pm-12:50 pm).

- 9615 TIPG San Jose, C. Rica. 2 kw. "La Voz de la Victor," Claudia Martinez. (Reported on 9610). (7 am-11:30 pm; English hour Wed, Sat, 9-10 pm).
- 9616 HJ1ABP Cartagena, Colombia. 608 w. 4:30-10:30 pm. "Radio Cartagena," Aptado 37.
- 9620 HAD Budapest, Hungary. (6-9 pm).
- 9630 HJ7GAD Bucaramanga, Colombia. 650 w. Relays HJ7GAE. "Radio Bucaramanga."
- 9630 I2RO3 Rome, Italy. 100 kw. See "Rome." (12:07-12:56 pm; 1:01-2:55 pm; 5:30-9 pm).
- 9645 HH3W Port-au-Prince, Haiti. 30 w. 1-2 and 7-8 pm. C. Ricardo Widmaier, Box A-117.
- 9645 JLT2 Tokyo, Japan. See "Tokyo." (8-8:30 pm).
- 9650 LABA Addis Ababa, Ethiopia. 1 kw. E. I. A. R. (Sun, 3:30-3:55 am).
- 9650 WCBX New York, N. Y. 10 kw. See "WCBX." (10:30-11:30 pm).
- 9660 CR6AA Lobito, Angola.
HVJ Vatican City. 15 kw. Wed, 2:30-3 pm; Sun, 5-5:30 am. See HVJ.
- 9670 I2RO9 Rome, Italy. 100 kw. See "Rome." (12:40-5:30 pm; 6-6:30 pm).
- 9675 DJX Berlin, Germany. 10:35 am-4:25 pm. See "Berlin" at end of list.
- 9685 TGWA Guatemala City, Guat. 10 kw. See "TGWA." (Sun, 7 pm-midnight; Weekdays, 7:30 pm-12:15 am).
- 9690 HMF Baghdad, Iraq. Qasr-El-Lahoor Brdcstg. Station. (3 pm).
- 9692 TI4NRH Heredia, Costa Rica. 750 w. Sun, 7-8 am; Tu, Th, Sat, 9-10 pm. Amando Cespedes Marin, Apartado 40.
- 9700 "Radio Martinique," Fort de France, Martinique 1500 w. 1:15-2:45 pm; 6-10 pm. Sign off with Marseillaise. Poste Seri. Boite 136.
- 9730 CB970 Valparaiso, Chile. (Reported on 9710). 6:30-11 pm.
- 9735 CSW7 Lisbon, Portugal. (8 pm).
- 9755 ZRO Durban, Union of So. Africa. 200 w. See "Johannesburg." (Sat, 3:30-7:30 am; 9-11:15 am; 11:20 am-4 pm; Sun, 5:30-7 am; 9-11:15 am; 11:20 am-3:20 pm; Other days, 3:30-7:30 am; 9-11:15 am; 11:20 am-3:45 pm).
- 9835 IRF Rome, Italy. 20 kw. See "Rome." (5:20-5:40 am; noon-12:25 pm; 12:40-1 pm; 1:50-2:30 pm; 6-9 pm).
- 9860 EAQ Madrid, Spain.
- 9925 JDY Dairen, Kwantung. 10 kw. 7-8 am. Manchuria Telephone and Telegraph Co.
- 9985 COCM Havana, Cuba. 1 kw. Relays CMCM, "Trans Radio Columbia," 23 No. 1113, Vedado.
- 10220 PSH Rio de Janeiro, Brazil. 12 kw. Relays PRF4; signs off with Brazilian National Hymn. Cia. Radio Internacional do Brasil, Caixa Postal 709. (Weekdays, 6-7 pm; M, 8-8:30 pm; F, 7-7:30 pm).
- 10330 ORK Brussels, Belgium. 11 kw. 1:30-3 pm.
- 10660 JVN Tokyo, Japan.
- 10740 JVM Tokyo, Japan.
- 11402 HBO Geneva, Switzerland. "Radio Nations." Sun, 7-7:45 pm.
- 11660 JVL Tokyo, Japan.
- 11673 IQY Rome, Italy. See "Rome." (5:20-5:40 am; 12:07-12:56 pm; 1:50-2:30 pm).
- 11700 HP5A Panama City. 300 w. Sun, 9 am-1 pm; 6-10 pm. Weekdays, 11:45 am-1 pm; 6-10 pm. "Radio Teatro Estrella de Panama." Sign off with "Anvil Chorus." Radio Teatro, Aptdo. 954.
- 11705 JLG3 Tokyo, Japan. See "Tokyo." (8-8:30 pm).
- 11705 SBP Stockholm, Sweden. 500 w. Sun, 1:15-4:15 pm; Wed, Sat, 8-9 pm; Daily 1-4:15 pm. Telegrafverket Tjanstebrev 5.
- 11718 CR7BH Lourenco Marques, Port. E. Agric. 200 w. Radio Club de Mocambique, Caixa 594. (Sun, 5-7 am; 10 am-12 pm; Weekdays, midn't-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm).
- 11718 TPB6 Paris, France. 7-9:15 pm. See "Paris."
- TPA4 Paris, France. 7-9:15 pm; 9:30 pm-midnight. See "Paris."
- 11720 CJRX Winnipeg, Man. 2 kw. James Richardson & Sons, 157 Royal Alexandra Hotel.
- 11721 ZP14 Villarrica, Paraguay. "Radio Cultura." (7:07-9:07 pm).
- 11730 PHI Huizen Netherlands. 23.6 kw. See Hilversum.
- WSLA Boston, Mass. 20 kw. See "WSLA."
- 11730 WSLR Boston, Mass. 20 kw. See "WSLA."
- 11735 LKQ Oslo, Norway. 5 kw. See "Oslo." (11 am-2 pm).
- 11740 HVJ Vatican City. 15 kw. Tues, 8:30-9 am. See HVJ.
- 11750 GSD London, Gt. Britain. 20 kw. "D For Daventry." See "London." (1:30-3:50 am; 12:35-4 pm; 4:20-6 pm; 6:20-9:15 pm; 9:40-11:30 pm).
- 11753 COCX Havana, Cuba. Relays CMX, "Casa Lavin." Box 32. Sun 6-9 pm; weekdays 8 am-midnight).
- 11760 TGWA Guatemala City, Guat. 10 kw. Sun, 12:45-5:15 pm; Weekdays, 12:45-1:45 pm. See TGWA.

- 11770 DJD Berlin, Germany. 50 kw. 11:30 am-4:30 pm; 4:50-10:50 pm. See "Berlin."
- 11770 MTCY Hsingking, Manchukuo. Strasbourg." (10-11:30 pm).
- 11776 ... "Radio Luxembourg." Cie. Luxembourgoise de Radiodiffusion, (1 hour daily, same hour for three days then advanced an hour for next 3-day period).
- 11780 HP5G Panama City, Pan. 750 w. "Ron Dalley." Opens, closes, with Prelude from "Traviata." Salvador Graziani, Box 1121. (6-10 pm).
- 11780 Saigon, Fr. Indo-China. "Radio Saigon." (6 am).
- 11790 WSLA Boston, Mass. 20 kw. See "WSLA."
- 11800 JZJ Tokyo, Japan. 50 kw. See "Tokyo." (7-9:30 am; 2:30-4 pm).
- 11801 DJZ Vienna, Germany. 50 kw. See "Berlin." (4:50-10:50 pm).
- 11810 I2RO4 Rome, Italy. 100 kw. See "Rome." (4:30-4:55 am; 5-7:25 am; 7:30-8:45 am; 10 am-3 pm; 6-9 pm).
- 11820-GSN London, Gt. Britain.
- 11830 WCBI Chicago, Ill. 500 w. See "WCBI."
- 11830 WCBX New York, N. Y. 10 kw. See "WCBX." (Sun, 3-6 pm; Daily exc. Sun, 4-6 pm; Daily 6:30-10 pm).
- 11840 KZRM Manila, Philippines. Erlanger & Gallinger, Inc., David St.
- 11840 OLR4A Prague, Bohemia. 35 kw. "Radio Podebrady." (M, Tu, W, Th, F, 8-10:30 am; Sun, 7:15-9:55 pm).
- 11850 HAD Budapest, Hungary. (2-6 pm).
- 11870 VUM2 Madras, India. 10 kw. 4-4:30 am. All-India Radio.
- 11870 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (2-11 pm).
- 11870 ... Strasbourg, France. "Radio
- 11880 VLR3 Melbourne, Australia. 1-3 am. See VLR.
- 11885 TPA3 Paris, France. 25 kw. 2-5 am; 11:15 am-6 pm. See "Paris."
- TPB7 Paris, France. 25 kw. 9:30 pm-midnight. See "Paris."
- 11900 I2RO13 Rome, Italy. 100 kw. See 2RO.
- 11900 XGOY Chungking, China. Central Brdstg. Station. (5:30-10:30 am; 11-11:30 am; 4-6:30 pm).
- 11900 XMHA Shanghai, China. 445 Race-course Road. (Reported on 11840 and 11857). (6 am).
- 11900 Hanoi, Fr. Indo-China. "Radio Hanoi II." 20 rue de la Pepiniere. (Sat, 8:30-10:30 pm; Sun, 12:01-9:30 am; Other days, 12:01-2:30 am; 6-9:30 am).
- 11930 PPH Rio de Janeiro, Brazil. (5:30 am).
- 11960 HI2X Trujillo, D. R. 900 w. Relays HIX. J. R. Saladin, Gobierno Dominicano. (Sun, 7:40-10:40 am).
- 12230 COCE Havana, Cuba. "La Voz del Transporte." Prado 18. (8 am-midn't.)
- 12235 TFI Reykjavik, Iceland. 7500 w. Sun, 1:45-2:30 pm Icelandic State Broadcasting Service, Box 547.
- 12460 HCJB Quito, Ecuador. (Reported on 12450). Clarence W. Jones, Casilla 691. (Daily exc. Mon, 10-11 pm).
- 13900 YN3DG Leon, Nicaragua. (Verifies for 10c). (Sat, Sun, 10 pm).
- 14125 YV9AB In Venezuela on Guiana-Brazil Border. Expedition de la Gran Sabana, Ministerio de Fomento, Caracas.
- 14795 IQA Rome, Italy. See "Rome." (4:30-4:55 am).
- 14935 PSE Rio de Janeiro, Brazil. W, 4-4:10 pm; Th, Sat, 3-3:30 pm).
- 15110 DJL Berlin, Germany. 50 kw. 12:05-2 am; 8-9 am; 10:35 am-4:25 pm. See "Berlin."
- 15120 HVJ Vatican City. 15 kw. Tues, 10:30-11 am; Sun, 1-1:30 pm. See HVJ.
- 15130 TPB11 Paris, France. 25 kw. 2-5 am. See "Paris."
- WSLA Boston, Mass. 20 kw. See "WSLA."
- 15130 WSLR Boston, Mass. 20 kw. See "WSLA."
- 15140 GSF London, Gt. Britain. 15 kw. "F For Fortune." See "London." (5:45-8:50 am; 9 am-noon; 4:20-6 pm; 6:20-9:15 pm).
- 15160 JZK Tokyo, Japan. 50 kw. See "Tokyo." (Midnight-1:30 am; 7-9:30 am; 2:30-4 pm).
- VUD3 Delhi, India. 5 kw. 2-4:15 am; 10 pm-midnight. All-India Radio.
- XEWW Mexico City, D. F. 10 kw. "La Voz de la America Latina desde Mexico," Aprdo. 2516.
- 15170 LKV Oslo, Norway. 5 kw. See Oslo.
- 15170 TGWA Guatemala City, Guat. 10 kw. See "TGWA." (Sun, 12:01-1 am; 10:30 am-5:15 pm; Weekdays, 7:45-9 am; 12:45-3:45 pm).
- 15180 GSO London, Gt. Britain. "O For Ocean." See "London." (4:20-6 pm; 6:25-9:20 pm).
- 15195 TAQ Ankara, Turkey. 20 kw. Turkish Brdstg. System. Daily 5:30-7 am.
- 15200 DJB Berlin, Germany. 8 kw. See "Berlin." (5-11 am; 4:50-10:50 pm; Sun, 11:10 am-12:25 pm).
- 15210 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (9 am-2 pm).
- 15220 PCJ2 Hilversum, Netherlands. 60 kw. See "Hilversum." (Sun, 7:40-9:05 am; M, Th, 7:40-9 am; Tu, 1-2:30 am; W, 9:30-11:30 am; Tu, W, F, Sat, 7:40-8:45 am).

- 15240 CR7BD Lourenco Marques, Mozambique. Radio Club de Mocambique, Box 594. (Sun, 5-7 am; 10 am-2 pm; Other days, midn't-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm).
- 15243 TPA2 Paris, France. 25 kw. 6-11 am. See "Paris."
- 15260 GSI London, Gt. Britain. "I For Island." See "London." (1:30 am-3:50 am; 12:25-4 pm).
- 15270 WCBX New York, N. Y. 10 kw. See "WCBX." (Sun, 1-2:30 pm; Other days, 1-3:30 pm).
- 15280 DJQ Berlin, Germany. 50 kw. Daily, 12:05-11 am; 4:50-10:50 pm. See "Berlin."
- 15280 HI3X Trujillo, D. R. 900 w. (Reported on 17400). Relays HIX. Secretaria de Comunicaciones y Obras Publicas. (Tu, F, 8:10-10:10 pm; Sun, 7:40-9:40 pm).
- LRU Buenos Aires, Argentina. 5 kw, 8 am-1 am. "Radio El Mundo," Calle Maipu 555.
- 15300 I2RO6 Rome, Italy. 100 kw. See "Rome." (4:10-4:55 am; 10 am-12:06 pm; 1:40-2:30 pm; 3-5:30 pm; 7:30-9 pm).
- 15300 LYZ4 Kaunas, Lithuania. (Reported on 15130). (Sun, 1 pm).
- 15310 GSP London, Gt. Britain. "P For Progress." See "London." (12:17-1:15 pm; 1:15-4 pm; 4:20-6 pm).
- 15330 KGEI San Francisco, Calif. 20 kw. See "KGEL." (1-4 am; 5-8 am; 12:30-8 pm).
- 15340 DJR Berlin, Germany. 50 kw. See "Berlin." (4:55-10:50 pm).
- 15410 Bucuresti, Romania. 50 kw. "Radio Bucuresti." (9-10:15 pm).
- 17760 DJE Berlin, Germany. 50 kw. See "Berlin." (12:05-5:50 am; 6-7:45 am; 8-11 am; 11:10 am-12:25 pm; 4:55-9 pm).
- 17770 PH12 Huizen, Netherlands. 23.6 kw. See "Hilversum." (Sun, 6:40-10:05 am; M, Th, 7:40-9 am; Tu, W, F, Sat, 7:40-8:45 am).
- 17785 JZL Tokyo, Japan. See "Tokyo." (4:30-5:30 pm; 8-8:30 pm).
- 17790 GSG London, Gt. Britain. 5:45-8:50 am; 9 am-noon; 12:20-4 pm. See "London."
- 17800 TGWA Guatemala City, Guat. 10 kw. See "TGWA."
- 17810 GSV London, Gt. Britain. 5:45-8:50 am; 12:20-4 pm. See "London."
- 17840 HVJ Vatican City. 15 kw. See HVJ.
- 21470 GSH London, Gt. Britain. 5:45-8:50 am; 9 am-noon. See "London."
- 21520 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (Noon-6 pm).
- 21530 GSJ London, Gt. Britain. 5:45-8:50 am. See "London."
- 21540 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (5:30-9 am).
- 21565 DJJ Berlin, Germany. 6-7:50 am. See "Berlin."
- 21570 WCBX New York, N. Y. 10 kw. See "WCBX." (8 am-12:30 pm).
- 21680 HAD Budapest, Hungary. (11 am-2 pm).

Addresses

Ankara—Radio Ankara." Ann: Turkish, Eng, Fr, Ger. Sign off, National anthem. Turkish Brdcstg. System, Correspondence Dept.

Berlin—These transmitters are located at Zeesen, near Berlin. Interval signal is the tune, repeated several times, "Ever Be True and Honest," and sign off theme, two national anthems, "Horst Wessel Lied" and "Deutschlandlied". Address is Reichs-Rundfunk G. m. b. H., Haus des Rundfunk, Masurenallee, Berlin-Charlottenberg 9.

Hilversum—Transmitters at Huizen. PCJ is "The Happy Station." Announcements in Dutch, German, French, English, Spanish, Portuguese. Sign off with National Anthem. N. V. Philips' Radio, Eindhoven.

Johannesburg—All programs originate in J/B. Announce "Johannesburg Calling," English and Afrikaans. Open with bugle call. South African Broadcasting Corp., Box 4559, Johannesburg.

London—Transmitters are at Daventry. Interval signals are Bow Bells; Greenwich time signal on even hours; and, irregularly, Big Ben, preceded by Westminster Chimes, strikes the hours. Sign off with "God Save The King." British Broadcasting Corp., London W1.

Oslo—Norsk Rikskringkasting, Shortingsgaten 28, Oslo, Norway.

Paris—Transmitters at Essarts-le-Roi. Announce as "ParisMondial," (Paris Embracing The World), and sign off with "La Marseillaise." Minister of Posts, Telegraphs and Telephones, 98 bis Blvd. Haussmann.

Rome—"Radio Roma-Napoli." Transmitter at Prato-Smeraldo. Interval signal, chirping of bird. Announcements usually by a lady. Sign off with 2 anthems, "Giovinezza" and "Marcia Reale." Ente Italiano per le Audizioni Radiofoniche, Via Montello 5.

Tokyo—Transmitters are at Nazaki. Sign off with national anthem, "Kimagayo." Nippon Hoso Kyokai, 2-Chome, Uchisaiwaicho, Kojimachi-ku.

HVJ—Announcements in Dutch, Italian, Polish, English, German, French, Spanish, Russian. A clock or metronome ticks seconds during 5 minutes preceding broadcasts. Bells of St. Peters strike hour. Open and close with Laudetur Jesus Christus." Pontifica Accademia Della Scienze, Roma-Castina Pio IV.

KGEI—Transmitter at Treasure Island. General Elec. Co., 235 Montgomery St., San Francisco, Calif.
 TGWA—Radiodifusora National, "La Voz de Guatemala." Relay TGW. Return postage is not necessary for verifications.
 VLR—Transmitter at Lyndhurst. Australian Broadcasting Commission (Victorian Division), P. O. Box 1686, GPO, Melbourne, Vic., Australia.
 WCAI—Trans. at Newtown Square. Relays CBS-WCAU. WCAU Brdcstg. Co., 1622 Chestnut St., Philadelphia, Pa.
 WCB—"The Voice of Labor." Transmitter, York Township. Relays NBC-WCFL. Sign off in English, French, German, Norwegian, Polish, Russian and Spanish. Chicago Federation of Labor, 666 Lake Shore Drive, Chicago, Ill.
 WCBX—Transmitter at Wayne Twp., N. J. Relays CBS-WABC. Sign off. "Star Spangled Banner." Columbia Broadcasting Sys., 485 Madison Ave., New York City.
 WGEA—Transmitter at South Schenectady. Relays NBC-WGY. Programs commence with discharge of man-made lightning. General Elec. Co., River Road.
 WLWO—Transmitter at Mason. Relays St., Cincinnati, Ohio.
 NBC-WLW. Crosley Corp., 1320 Arlington
 WNB1—Transmitter at Bound Brook, N. J. Relays NBC-WJZ. Sign off with "Star Spangled Banner." NBC, Inc., 30 Rockefeller Plaza, New York, N. Y.
 WPIT—Transmitter at Saxonburg. Relays NBC-KDKA. Westinghouse Electric & WSLA—"Dedicated to Enlightenment." World Mfg. Co., Grant Bldg., Pittsburgh, Pa.
 Wide Broadcasting Corp., Educational Director, University Club, Boston, Mass.

K6KLN (b); K6MRV (a); K6MZA (b); K6NYD (a); K6OJI (abj); K6RVU (j); K7GSC (b); LU7BC (b); LU9FB (b); LY1AA (c); LY1J (b); NY1AE (a); OA4AR (a); OA4C (b); ON4MW (a); OQ5AE (i); OQ5RC (i); PY2AZ (j); PA0DR (a); PK2AY (i); PY2AQ (b); PY2BH (j); PY2ER (bj); PY5AQ (b); PY7AI (i); TG57G (b); TG9AA (bj); TG9BA (ab); TI2FG (b); TI2RC (a); TI4AC (ab); TI6HP (b); VPIWB (a); VP5BR (h); XE1CJ (j); XE1CQ (j); XE1GE (h); XE2KN (j); XE8ZA (i); YN1IP (bj); YN4AB (b); YV1AC (a); YV1AP (bj); YV1AQ (ab); YV3AQ (j); YV4AE (bj); YV4AP (a); YV5ABE (b); YV5AE (a); YV5AV (cj); YV5AG (cj); YV5AK (j); YV8AA (b).

Twenty Meters-CST

CE1AC (d); CE1AH (e); CE1AR (d); CE3AM (e); CE3DW (d); HC1FG (e); HH2B (d); HI3N (de); HI5X (d); HK1AB (d); HK3CI (e); HK4DC (d); KA1CS (d); K6BHL (e); K6BJJ (e); K6BNR (e); KA7EF (d); K4FKC (e); K6BAZ (e); KA1EF (d); KA1LB (d); KA1ME (d); K6CGK (e); K6GAS (e); K61AE (d); K6ILW (ed); K6JPD (e); K6LCV (de); K6LEJ (ed); K6MVA (e); K6NYD (e); K6OES (e); K6OKW (e); K6OJI (de); K6OES (e); K6OFW (e); K6QJI (de); K6QMT (de); K6RVU (e); LU1QA (d); LU7BA (e); OA4C (e); PK3BD (d); PY2AC (d); TG9AA (d); TI2CG (d); TI4AC (d); YVAA9 (e); YV1AP (d); YV1AQ (de); YV4AE (d); YV5ABF (e); ZS5Q (e); ZS6EJ (e).

Twenty Meters-PST

All reported by (f); CE1AG; CE1AO; CE1AR; CE2AM; CE3AA; CE3AC; CE3AZ; CE3BK; CE3CG; CE3CH; CE3CO; CE3CZ; CE3EW; CN8BB; CT2BP; CX2CO; EA7BA; EK1AF; HH5PA; HK1AA; HR2A; J2KN; J4CT; J5CW; J7CB; KA1AA; KA1AF; KA1BB; KA1CS; KA1CW; KA1ER; KA1FH; KA1JP; KA1LZ; KA1ME; KA1MM; KA1OZ; KA1ZL; KA1ZL; KA3KK; KA4LH; KA7EF; K4FKC; K7GZH; K7HCX; LU1H1; LU1QA; LU3AJ; LU3DN; LU4CZ; LU4FG; LU4VA; LU5CZ; LU5EZ; LU6DJ; LU7AG; LU7AZ; LU7BK; LU7HH; LU8AB; LU8AG; LU8EC; NY1AE; OA4A1; OA4C; OA4R; OQ5AE; OZ5BW; PA0MZ; PK1MF; PK1RI; PK2AY; PK2LZ; PK3BD; PK3WI; SM5JG; TG5JG; TG9RV; TI2BS; TI4AC; ZE1JX; ZS1AX; ZS2AH; ZS2AZ; ZS4AA; XU6KL; XU8RB; XU8ZA; YV5ABF; ZS4H; ZS4L; ZS5AG; ZS5AW; ZS6BZ; ZS6CY; ZS6DJ; ZS6DW; ZS6DY; ZS6EB; ZS6EG; ZS6EU; ZS6FD.

Amateur Calls Heard

The calls are listed under the time zones in which they are heard. The names and addresses of persons reporting the stations are indicated by small letters following the call signs. Key to the small letters is given at the end of the column.

Ten Meters

CE3AG (a); K4FOW (adj); K4FRN (a); K5AP (a); K5AT (a); K6MVV (d); K6MVX (d); K6OQM (d); K6PAS (d); K6QLG (d); K6QNX (d); K6RVG (d); OQ5AB (aj); TG9AA (ad); VP6YB (a); W9BHP (i); XE1AX (a); XE1GL (a); XE2AC (a); XE2AS (aj); XE2FC (a); YN3DG (a); YV1AQ (a); ZS2AH (a); ZS4H (a); ZS4W (a); ZS5BZ (a); ZS6W (a); ZS6BS (a).

Twenty Meters-AST

All reported by (g); HA3Y; HK3CK; I1MV; K4FKC; OZ5BW; YV4AE; YV5ABQ.

Twenty Meters-EST

CE1AC (bh); CE1AO (j); CE1AX (b); CE3AG (b); CT1QA (b); CT1QC (b); CT1OY (b); CT2BP (b); CX2CO (b); EK1AF (bj); ES5D (bc); HA3B (bi); HB9DO (a); HC2CC (b); HH2B (abj); HH5PA (ab); HI3N (bj); HI3Q (b); HI5X (ab); HI6Q (abj); HI7I (b); HK1AG (bh); HK1AK (a); HK3AX (a); HK3CK (b); HK3CL (b); HK4DX (b); HPIA (cj); JSCA (c); KA1FH (h); KA7EF (h); K4AOP (b); K4EJF (b); K4EMD (a); K4EZF (a); K4FAB (b); K4FAY (abj); K4FTQ (a); K4FKC (abj); K4FRM (a); K6BNR (aj); K6KCV (b); K6KVC (j);

The Reporters

- (a) Alton Caldwell, Jr., Brockton, Mass.
- (b) George Eder, Philadelphia, Pa.
- (c) Carl Horton, Athol, Mass.
- (d) Ralph Kastner, New Braunfels, Texas
- (e) Merton T. Meade, Kansas City, Mo.
- (f) William Pieper, Los Angeles, Calif.
- (g) George Poulain, Sydney, N. S., Canada
- (h) Carl Sylvester, Columbiaville, Mich.
- (i) LeRoy Waite, Ballston Spa, N. Y.
- (j) Walter F. Welch, Lynn, Mass.

The WORLD'S Radio Stations

(Continued From November Issue)

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

The addresses and broadcasting schedules 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. Sam Dubin.
	KASK	...	40	Hughes, T. A. Linious 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 Service.
3040	YDA	B	10000	Tandjong Priok, Java, N.E.I.
3045	VBV6,	C	....	Calgary, Alta. Dominion Gov't.
3062	KGTD	FA	....	Wichita, Kans. Aeronautical Radio, Inc.
	KGTH	FA	....	Salt Lake City, Utah. Same as KGTD.
	KGTR	FA	....	Robertson, Mo. Same as KGTD.
	KST	FA	....	Kansas City, Mo. Same as KGTD.
	KSV	FA	....	Amarillo, Tex. Same as KGTD.
	KSX	FA	....	Albuquerque, N. Mex. Same as KGTD.
	WAEC	FA	....	Pittsburgh, Pa. Same as KGTD.
	WAEO	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.
3082.5	KAAT	FA	....	Wake Island. Pan American Airways.
	KAAU	FA	....	Launch "Panair II-P". Same as KAAT.
	KABN	FA	16	Launch "Panair XI-P". Same as KAAT.
	KABO	FA	....	Launch "Panair IV-P". 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	PA	....	Launch "Panair XIII-P". Same as KAAT.
	KHAGH	A	50	NC-14947. Lt. Col. G. R. Hutchnison, 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.
3085	KBR0	F	....	Bozeman, Mont.
	KBDG	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	50	Portable in Alaska. Alaska Aeronautics & Com- munications Commission.
	KAGO	T	10	Portable in Alaska. Same as KAGN.
	KAJP	C-T	....	Daly, T. A. Pacific American Fisheries, Inc.
	KAJX	T	18	Holy Cross, T. A. Catholic Society of Alaska.

	KAKL	C	....	Kasaan, T. A. Same as KAJP.
	KBNL	T	50	Iron Creek, T. A. Southwestern Herring Co.
	KEXO	T	50	Portable in Alaska. Same as KAGN.
	KEXP	T	50	Portable in Alaska. Same as KAGN.
	KGM	....	....	Ketchikan, T. A. Alaska Pacific Salmon Co.
	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	....	....	Take, T. A. Same as KGM.
	KIBA	....	....	Take, 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	50	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	....	....	Take, 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.
3093	KAJO	....	....	Warren, T. A. Pacific American Fisheries, Inc.
	KALG	....	....	Squaw Harbor, T. A. Same as KAJP.
	KALH	....	100	Port Moller, T. A. Same as KAJO.
	KALI	....	100	Lazy Bay, T. A. Same as KAJO.
	KALJ	....	....	King Cove, T. A. Same as KAJO.
	KAMG	....	20	Stuyshok, T. A. Vance Hitt.
	KANR	....	20	Kalskag, T. A. Fred H. Whitcher.
	KAOL	....	25	Mountain Village, T. A. Norval Douglas Shepard.
3095	KBAA	F	....	Seward, T. A. (In Chugach Forest). U. S. Dept. of Agriculture, Forest Service.
	KBAP	KBAG, KBAH,	....	Same as Above.
	KBCC	F	....	Mt. Shasta, Calif.
	KBCM	F	....	Salmon, Idaho. (Salmon Forest).
	KBCN	F	....	Salmon, Idaho. (Salmon Forest).
	KBDD	F	....	Elko, Nev. (Humboldt Forest).
	KBDE	F	....	Elko, Nev. (Humboldt Forest).
	KBEN	F	....	Seward, Alaska.
	KBEZ	F	....	Mt. Shasta, Calif.
	KBFH	F	....	Leavenworth, Wash.
	WWLL	F	....	Duluth, Minn. (Superior Forest).
	WWLM	F	....	Escanaba, Mich. (Upper Mich. Forest).
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.
	KHCJY	A	100	NC-18997. American Export Airlines.
3120	KHCJY	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	....	Oakland, Calif. Same as KEU.
	KGE	FA	....	Medford, Ore. Same as KEU.
	KGQZ	FA	....	San Diego, Calif. Same as KEU.
	KGT	FA	....	Fresno, Calif. Same as KEU.
	KGTZ	FA	....	Spokane, Wash. Same as KEU.
	KIJE	FA	....	Pendelton, Ore. Same as KEU.
	KJE	FA	....	Reno, Nev. Same as KEU.
	KKO	FA	....	Elko, Nev. Same as KEU.
3155	KBAL	F	100	Mineral, Wash. (Snoqualmie Forest).
	KBAP	F	....	North Bend, Wash. (Snoqualmie Forest)
	KBBL	F	....	Coolin, Idaho.
	KBBM	F	....	Sandpoint, Idaho. (Kaniksu Forest).
	KBBN	F	....	Sanpoint, Idaho. (Kaniksu Forest).
	KBBR	F	....	Ione, Wash. (Kaniksu Forest).
	KBBW	F	....	Libby, Mont. (Kootenai Forest).
	KBCT	F	....	Custer, S. Dak. (Harney Forest).
	KBCW	F	....	Thompson Falls, Mont. (Kootenai Forest).
	KBCY	F	....	Troy, Mont. (Kootenai, Forest).
	KBDV	F	....	Deadwood, S. Dak.

	WWKZ	F	....	Rhineland, Wis. (Nicolet Forest).
	WWLS	F	....	Forest, Miss. (Mississippi Forest).
	WWQA	F	....	Jackson, Miss.
3158	YDE4	D	....	Sourabaya, Java, N. E. I.
3162.5	KRBD	FA	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 Cluff, 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	....	Unicoi, Tenn. (Cherokee Forest).
	WWKX	F	....	St. Louis, Mo.
	WWLK	F	....	Duluth, Minn. Superior Forest).
	WWLW	F	....	Duluth, Minn. Superior Forest).
	WWLQ	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	....	Fort 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	KHCQR	A	50	NC-21750. Canadian-Colonial Airways, Inc.
	KHCQS	A	50	NC-21750. Same as above.
	WSDJ	FA	50	Elkins, W. Va. (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	..	30	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).
	KBBJ	F	....	Orofino, Idaho. (Clearwater Forest).
	KBBU	F	....	Elk City, Idaho. (Nezperce Forest).
	KBCU	F	....	Grangeville, Idaho. (Nezperce Forest).
	KBDP	F	....	Descanso, Calif. (Cleveland Forest).
	KBDT	F	....	Cascade Locks, Ore. (Mt. Hood Forest).
	KBFC	F	....	Nevada City, Calif.
	KIBZ	T	....	Waterfall, T. A. Nakat Packing Corp.
	KILQ	..	100	Skowl Arm, T. A. Deep Sea Salmon Co.
	KLA	..	....	Waterfall, T. A. Same as KIBZ.
	WWLY	F	....	Villalba, Puerto Rico.
3270	CZ7N	FA	....	Cache Bay, P. Q. Canadian Airways, Ltd.
3280	CIA	T	....	Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	CIP8	C	....	Calgary, Alta. Same as CIA.
	VEW	C	....	Calgary, Alta. Same as CIA.
3295	WWLX	F	....	Luquillo, Puerto Rico.
3300	CY3J	T	....	Anyox, B. C. Consolidated Mining & Smelting Co.
	CZ5Y	C-T	....	Anyox, B. C. Same as CY3J.
	CZ7H	T	....	Cedar Greek, B. C. Same as CY3J.
3320	YDH4	B	30	Bandoeng, Java, N. E. I.
3322.5	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
3350	K7XFG	SE	150	Anchorage, T. A. Alaska Aeronautical & Communication Commission.
	K7XFR	SE	150	Ketchikan, T. A. Same as above.
	K7XFS	SE	150	Ketchikan, T. A. Same as above.
	K7XFU	SE	....	Juneau, T. A. Same as above.
	K7XGG	SE	150	Cordova, T. A. Same as above.
	K7XGH	SE	150	Gravina Island, T. A. Same as above.
	K7XGI	SE	150	Ralston, T. A. Same as above.
3372.5	WAQE	FA	....	So. Washington, Va. Aeronautical Radio, Inc.
	WAQS	FA	....	Grand Rapids, Mich. Same as WAQE.
	WAQU	FA	....	Detroit, Mich. Same as WAQE.
	WAQV	FA	....	Milwaukee, Wis. Same as WAQE.
	WAQW	FA	....	Pittsburgh, Pa. Same as WAQE.
	WARC	FA	....	Chicago, Ill. Same as WAQE.
	WAUA	FA	....	Norfolk, Va. Same as WAQE.
	WBSC	FA	....	Saginaw, Mich. Same as WAQE.
	WBSS	FA	....	Sault Ste. Marie, Mich. Same as WAQE.
	WBTC	FA	....	Traverse City, Mich. Same as WAQE.
	WPAL	FA	....	Cleveland, Ohio. Same as WAQE.
	WPXB	FA	....	Buffalo, N. Y. Same as WAQE.
	WPXH	FA	....	New Cumberland, Pa. Same as WAQE.
	WPXL	FA	....	Lansing, Mich. Same as WAQE.
	WPXM	FA	....	Muskegon, Mich. Same as WAQE.
	WPXW	FA	....	Williamsport, Pa. Same as WAQE.
	WPYA	FA	....	Flint, Mich. Same as WAQE.
	WPYB	FA	....	Baltimore, Md. Same as WAQE.
3385	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	Cordova, T. A. Same as above.
	K7XGH	SE	150	Gravina Island, T. A. Same as above.
	K7XGI	SE	150	Ralston, T. A. Same as above.
	YV5RW	B	....	Caracas, Venezuela. "Radio Turmieto," Cesar Banuls.
3410	KCBO	LH	50	Tillamock Rock Light, Ore. U. S. Lighthouse Service.
	KNKG	F	....	Ash Mt., Sequoia Nat'l. Park, Calif.
	KNLP	F	....	Death Valley, Calif.
	WPB	LH	....	Portland, Maine
	WRJ	LH	....	Poe Reef, Mich.
	WSEO	G	....	Catlingsburg, Tenn. Great Smoky Nat'l. Park.
	WST	LH	....	Dry Tortugas, Fla.
	WWAJ	LH	....	Manitou 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."
	WWZ	LH	....	Key West, Fla.
3415	KNJO	G	....	General Grant N. P., Calif U. S. Nat'l. Park Serv., Dept. of Interior.
	KNJP	G	....	Grand Teton N. P., Wyo. Same as KNJO.
	KNJO	G	....	Sequoia Nat'l. Park, Calif. Same as KNJO.
	KNJR	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	....	Tender "Hollyhock."
3427.5	KBEX	F	....	Del Rosa, Calif.
	KDFB	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.
	WARQ	FA	....	Portable. Same as KGTF.
	WAWB	FA	....	Bristol, Tenn. Same as KGTF.
	WMER	FA	....	Portable. Same as KGTF.
	WNEG	FA	....	Charleston, W. Va. 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.
	WSDJ	FA	50	Elkins, W. Va. Same as KGTF.
	WSDM	FA	....	Albany, N. Y. Same as KGTF.
	WSDO	FA	....	Buffalo, N. Y.
	WSDP	FA	....	Port Columbus, Ohio. Same as KGTF.
	WSDQ	FA	....	Berea, Ohio. Same as KGTF.
	WSDZ	FA	....	Indianapolis, Ind Same as KGTF.
3450	BU4	B	....	Indianapolis, Ind.
	YV6RC	B	....	Barcelona, Venez. Gobierno Edo. Anzoategui.
3480	YV3RF	B	....	Acarigua, Venez. "La Voz del Llano," Pauses Sigala
	2ZB	B	200	Wellington, New Zealand.

3488	XZZ	B	50	Rangoon, Burma.
3490	CR7AB	B	....	Lourenco Marques, Mozambique.
3492.5	K6XAK	GE	1500	Kaena Point, Oahu, T. H. Globe Wireless
	W4XID	E1	50	W. Palm Beach, Fla. Gray Radio Co.
	W6XCS	GE	50	San Francisco, Calif. Garlynn Eng. Co.
	W6XQW	GE	1000	Palo Alto, Calif. Stamford University.
	W6XXT	GE	5000	Portable. Press Wireless, Ltd.
	W7XBA	E	15	Portable. Northern Radio Co.
	W7XEY	E1	60	Seattle, Wash. Radio Labs., Inc.
	W7XEZ	E1	60	Seattle, Wash. Radio Labs., Inc.
	W8XUK	GE	10	Portable. W. Va. Univ., Dept. of Physics.
	W8XUL	GE	10	Portable. Same as W8XUK.
	W10XJJ	..	25	Portable. Harvey Radio Labs., Inc.
	W10XJP	..	15	Portable, in Asia. Trans-Asia, Inc., Lawrence Thaw Expedition.
	W10XJQ	..	15	Portable in Asia. Same as W10XJP.
	W10XJR	..	15	Portable in Asia. Same as W10XJP.
	W10XJS	..	15	Portable in Asia. Same as W10XJP.
3497	CLX	..	250	Havana, Cuba. Observatorio Nacional, Casa Blanca. 3500 to 4000 kcs. Amateurs
3500	YV5RV	B	....	La Guaira, Venez. "Emisora Vargas," Gonzalo Veloz Mancera.
3732	TGB	FA	....	Aviacion Nacional, Pais de la Aurora, Guatemala.
3750	CS2ZU	B	80	Ponta Delgada, Azores. Deodata Emilio Soares
	PWH	..	....	Abrolhos, Brazil.
4002	CT2AJ	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	HCB2	B	1000	Quito, Ecuador.
4122.5	KBLC	FA	50	Corpus Christi, Texas. Aeronautical Radio.
	KBRN	FA	3000	Brownsville, Texas. Same as KBLC.
	KHAGH	A	50	NC-14947. Lt. Col. 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.
	WGS A	FA	50	Greenville, S. C. Same as KBLC.
	WP AE	FA	50	Philadelphia, Pa. Same as KBLC.
	WSJM	FA	400	Tampa, Fla. Same as KBLC.
4125	KIQA	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	KHCY	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.
	WOY	C	....	Lawrenceville, N. J. Same as WOO.
4200	CP2ANA	C	....	Sipiapo, Bolivia.
4253	WKF	C	....	Lawrenceville, N. J. American Tel & Teleg. Co., Long Lines Dept., 32-6th Ave., New York City.
4273	RV15	B	20000	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	..	....	Lake Bluff, Ill. Thorne Donnelley.

	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	....	Havan, 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

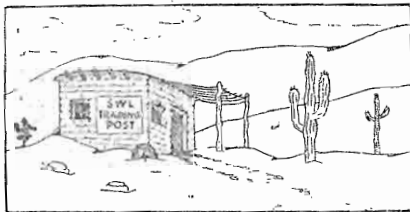
Explanation of the Third Column Symbols:

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

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

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 that station, as for example:

WRHD MP 250 Louisville, Ky. (2 units-12 w).



James O. Taylor, 17½ W. Main St., Crooksville, Ohio (Photos and correspondence).

Robert Chase, 231 Henry St., New York City. (SWL cards).

Earle S. Miller, Box 663, East Worcester, N. Y., will answer all radio questions free of charge.

LeRoy Swanson, 217 N. 15th St., Chariton, Iowa. (SWL cards).

Joseph Becker, Sr., 415 S. 11th St., Hamilton, Ohio (SWL cards).

Cliff Tavener, Rosenberg, Texas (SWL cards).

R. A. Roycroft, 21 Anzac Road, Whangarei, New Zealand. (SWL cards).

J. I. Vaught, Box 1424, New Orleans, La. (SWL cards).

Jack Fern, 109 Bergen Ave., Clifton, N. J. (Correspondence).

Merton T. Meade, 819 Wyandotte St., Kansas City, Mo. (SWL cards).

Norbert Greenwood, 47 Allen St., Rutland, Vt. (SWL cards and correspondence).

George Cryder, Route 3, Box 299, Delaware, Ohio (Photos and SWL cards).

Geo. G. Canapp, 2023 Booth St., Baltimore, Md. (Correspond with Howard 430 owners).

Applications to the FCC

CP—Construction permit.
 mod.—modification.
 lic.—license.
 ltd.—limited time.
 unlt.—unlimited time.
 S. H.—specified hours.

KDON, Monterey, CP 500(1), 1440 kcs.
 KEEN, Seattle, CP 1370 kcs. to 1420 kcs.
 KERN, Bakersfield, CP 1380 kcs., 1000 w.
 KEX, Portland, CP 1160 kcs. unlt.
 KFBB, Great Falls, mod. of lic. for 900 kcs.,
 5 kw.
 KFIQ, Spokane, CP 950 kcs., 1 kw. unlt.
 KFNF, Shenandoah, mod. of CP to move
 to Council Bluffs.
 KFPW, Ft. Smith, CP 1370 kcs.
 KFRU, Columbia, to 1370 kcs., 250 w. unlt.
 KFYO, Lubbock, to 1380 kcs., 500(1).
 KGDM, Stockton, 1530 kcs., 1 kw. unlt.
 KGMB, Honolulu, CP 590 kcs. 1000(5) unlt.
 KIRO, Seattle, CP 710 from 650; 1 kw unlt.
 KMAC, San Antonio, CP 930 kcs., 1000 w.
 unlt.
 KOH, Reno, CP 630 kcs., 1 kw. unlt.
 KOVC, Valley City, CP 1340 kcs., 500(1).
 KOY, Phoenix, mod. of lic. for 550 kcs.
 KRBC, Abilene, CP 940 from 1420; 1 kw.
 KRMC, Jamestown, CP 900 kcs., 1 kw.
 KROC, Rochester, CP 920 kcs., 500(1) unlt.
 KRRV, Sherman, CP 880 kcs., 1 kw. unlt.
 KSD, St. Louis, CP 630 kcs.
 KSEL, Pocatello, CP 600 kcs., 1 kw. unlt.
 KTBS, Shreveport, CP 620 kcs., 1000(5)
 unlt.
 KUTA, Salt Lake City, CP 570 kcs., 1 kw.
 KWK, St. Louis, CP 630 kcs.
 KXL, Portland, CP 730 kcs., 10 kw. unlt.
 KXCK, St. Louis, CP 630 kcs., 1000(5).
 KXYZ, Houston, CP 710 kcs; 10 kw.
 KYOS, Merced, CP 1390 from 1040; 500(1)
 unlt.
 WAPI, Birmingham, CP 1050 kcs., kw.
 WCAD, Canton, CP Watertown, N. Y.
 WCOL, Columbus, to 1200 kcs., 250 w. unlt.
 WGBF, Evansville, CP 1250 kcs., 1000(5)
 unlt.
 WGRC, New Albany, CP 880 kcs., 250 w.
 unlt.
 WHA, Madison, CP 670 kcs. 50 kw. unlt.
 (facilities of WMAQ).
 WIBC, Indianapolis, mod. lic. 1130 from
 1050; 1 kw.
 WJJD, Chicago, CP 1040 from 1130;
 1000(25) unlt.
 WKAQ, San Juan, CP 620 kcs. 5 kw.
 WLAP, Lexington, CP 1270 kcs. 1 kw. unlt.
 WMAZ, Macon, CP 1240 kcs. unlt.
 WMBC, Detroit, CP 600 kcs.
 WMBR, Jacksonville, CP 1120 kcs. 500(1)
 unlt.
 WMFF, Plattsburg, CP 1240 kcs. 1 kw.
 WNBX, Springfield, CP Keene, N. H., 1
 kw. unlt.
 WPG, Atlantic City, CP New York (facilities
 WBIL and WOV).
 WPRP, Ponce, mod. lic. 250 unlt; CP 1480
 from 1420; 1000(5) unlt.
 WREN, Lawrence, CP Kansas City.
 WROL, Knoxville, CP 620 kcs. 500(1).
 WSBT, South Bend, CP 930 kcs. 500 w.
 unlt.
 WSFA, Montgomery, CP 1410 kcs. 1 kw.
 unlt.

WSPR, Springfield, CP 1240 from 1140; 500
 w. unlt.
 WTCN, Minneapolis, CP 710 kcs. 10 kw.
 unlt.
 WTJS, Jackson, CP 1380 from 1310; 1 kw.;
 mod. lic. 250 unlt.
 WWVA, Wheeling, CP 1140 from 1160; 50
 kw.

Applications for New Stations

Albemarle, N. C., Albemarle Brdcastg. Sta-
 tion, 1370 kcs. 100 w. days.
 Arlington, Va., Arlington Brdcastg. Corp., 1420
 kcs 250 unlt.
 Ashland, Wis., WJMS, Inc., 1370 kcs. 100 w.
 unlt.
 Asheville, N. C., Publix-Bamford Theaters,
 Inc., 1430 kcs. 1 kw. unlt.
 Atlantic City, N. J., Atl. City Brdcastg. Co.,
 1100 kcs. 5 kw. sharing with WBIL.
 Atlantic City, N. J., Neptune Brdcastg. Corp.,
 1420 kcs. 100(25).
 Bainbridge, Ga., Post Search Light Co., 1500
 kcs., 100(25).
 Bellingham, Wash., Bell Brdcastg. Co., Inc.,
 1200 kcs. 100(25).
 Birmingham, Ala., B. News Co., 590 kcs. 1
 kw. unlt.
 Boston, Mass., Mayflower Brdcastg. Corp.,
 1410 kcs. 500(1).
 Bridgeport, Conn., Chas. Greenblatt, 1190
 kcs. 250 w. ltd.
 Bridgeport, Conn., Harold Thomas, 1420 kcs.
 250 unlt.
 Brown City, Mich., Thumb Brdcastg. Co.,
 880 kcs. 1 kw. days.
 Brownwood, Tex., Brown County Brdcastg.
 Co., 990 kcs. 1 kw. days.
 Burlington, Iowa, Burlington Brdcastg. Co.
 Burlington, N. C., Burlington Brdcastg. Co.,
 1420 kcs., 100 D.
 Burlington, N. C., Central Carolina Brdcastg.
 Co., 1420 kcs., 250 unlt.
 kcs. 100 w. unlt.
 Cedar Rapids, Iowa, The Gazette Co., 1420
 Cheyenne, Wyo., Western Brdcastg. Co., 1210
 kcs. 100(25).
 Cleveland, Ohio, Cuyahoga Valley Brdcastg.
 Co., 1500 kcs. 100 w. days.
 Clinton, Iowa, Clinton Brdcastg. Corp.
 Columbus, Miss., Birney Imes, 1370 kcs.
 100(25) unlt.
 Ely, Nev. Eastern Nev. Brdcastg. Co., 1500
 kcs. 100 days.
 Erie, Pa., Presque Isle Brdcastg. Co., 1500
 kcs. 100(25) unlt.
 Everett, Wash., Cascade Brdcastg. Co., 1420
 kcs. 100(25) unlt.
 Ft. Myers, Fla., Palm Radio Co., 1210 kcs.,
 250 unlt.
 Fremont, Nebr., Nebr. Brdcastg. Corp., 1370
 kcs. 100(25) unlt.
 Greenville, Tex., Hunt Brdcastg. Assn., 940
 kcs., 1 kw D.
 Hannibal, Mo., Courier Post Pub. Co.
 High Point, N. C., High Point Brdcastg. Co.,
 1120 kcs., 250 unlt.
 Hopkinsville, Ky., Paducah Brdcastg. Co., Inc.,
 1200 kcs. 250 unlt.
 Jacksonville, Ill., Stephenson, Edge & Kors-
 meyer, 1370 kcs., 250 unlt.
 Kosciusko, Miss., P. K. Ewing, 1500 kcs.,
 100(25). unlt.
 Las Vegas, Nev., Las Vegas Brdcastg. Co.,
 1420 kcs. 100(25).
 Las Vegas, Nev., Nev. Brdcastg. Co., 1370
 kcs. 100(25) unlt.
 Logan, W. Va., Frey and Greever, 1200
 kcs. 100 days.

Lookout Mt., Ga., Lookout Mt. Corp., of Ga., 1370 kcs., 100(.25).	San Diego, Calif., Jack Hazard, 1430 kcs., 500 w. unlt.
Louisville, Ky., Gateway Brdcastg. Co., 880 kcs. 500 unlt.	San Juan, P. R., Enrique Abarca Sanfeliz, 580 kcs. 1 kw. unlt.
Martinsville, W. Va., M. Brdcastg. Co., 1420 kcs. 250 days.	San Juan, P. R., United Theaters, Inc., 580 kcs. 1 kw. unlt.
Martinsville, W. Va., Patrick Henry Brdcastg. Co., 1420 kcs. 100(.25).	Santa Monica, Calif., A. E. Austin, 1160 kcs. 100(.25).
Marysville, Calif., Yuba-Sutter Broadcasters, 1320 kcs. 250 unlt.	Scranton, Pa., Lackawanna Brdcastg. Co., 1370 kcs. 100(.25).
Miles City, Mont., E. E. Krebsbach 1310 kcs., 100(.25).	Scranton, Pa., Union Brdcastg. Co., 1370 kcs. 100(.25) unlt.
Miles City, Mont., Star Printing Co., 1310 kcs., 250 unlt.	Shelby, N. C., Jos. A. Lattimore, 1370 kcs. 100(.25) unlt.
Minneapolis, Minn., Independent Merchants Brdcastg. Co., 1300 kcs. 1 kw. unlt.	Spartanburg, S. C., S. Advertising Co., 1370 kcs. 100(.25) unlt.
Montebello, Calif., Bureau of Education, 1420 kcs. 100 days (request contingent upon move of KECA to San Diego).	Springfield, Ohio, Radio Voice of Springfield, 1310 kcs. 100 unlt.
Norfolk, Va., Colonial Brdcastg. Corp., 1370 kcs. 100(.26).	Springfield, Ohio, S. Radio Corp., 1310 kcs. 100 unlt.
North Sacramento, Calif., Grant Union High School District, 1530 kcs., 1 kw.	Springfield, Ohio, S. Radio Service, 780 kcs. 250 days.
Ogdensburg, N. Y., St. Lawrence Brdcastg. Corp., 1370 kcs., 250 w. unlt.	Steubenville, Ohio, Valley Brdcastg. Co., 930 kcs., 1 kw D.
Olney, Ill., Olney Brdcastg. Co., 1210 kcs. 100(.25) unlt.	Tacoma, Wash., Tacoma Brdcastg. Co., 1420 kcs. 100(.25).
Opelika, Ala., Opelika-Auburn Brdcastg. Co., 1370 kcs. 100(.25).	Tacoma, Wash., Michael J. Mingo, 1400 kcs. 250 unlt.
Orlando, Fla., Hazlewood Co., 1390 kcs. 1 kw. unlt.	Traverse City, Mich., Northern Brdcastg. Co., 570 kcs. 500 days.
Pawtucket, R. I., Pawtucket Brdcastg. Co., 1390 kcs. 1 kw. unlt.	Valdosta, Ga., John F. Arrington, Jr., 1230 kcs. 250 unlt.
Phoenix, Ariz., M. C. Reese, 1200 kcs. 100(.25) unlt.	Vincennes, Ind., Samuel M. Emison, 1420 kcs. 100 unlt.
Ponce, P. R., Portorican American Brdcastg. Co., 1340 kcs. 1 kw.	Vincennes, Ind., Vin. Newspapers, Inc., 1420 kcs. 100 unlt.
Pontiac, Mich., King-Trendle Brdcastg. Corp., 1440 kcs. 250 unlt.	Washington, D. C., Lawrence J. Heller, 1310 kcs. 100(.25).
Riverside, Calif., Brdcastg. Corp. of America, 1390 kcs. 1 kw.	Watertown, N. Y., Black River Valley Brdcastg. Co.
Riverside, Calif., Richard T. Sampson, 1390 kcs. 250 days.	Watertown, N. Y., Watertown Brdcastg. Corp.
Riverside, Calif., Mollin Investment Co., 1390 kcs., 500 w. D.	Watertown, S. Dak., Midland Brdcastg. Co., 1210 kcs., 100(.25).
Rochester, N. Y., Edward J. Doyle, 1270 kcs. 500 days.	Willmar, Minn., Lakeland Brdcastg. Co., 680 kcs. 250 days.
Saginaw, Mich., Saginaw Brdcastg. Co.	Wisconsin Rapids, Wis., Wm. F. Huffman, 1310 kcs., 100(.25).
Salina, N. Y., Sentinel Brdcastg. Corp., 620 kcs. 1 kw. unlt.	Worcester, Mass., Winfield A. Schuster, 1200 kcs. 100 unlt.
Sandusky, Mich., Thumb Brdcastg. Co., 880 kcs. 1 kw. days.	Worcester, Mass., C. T. Sherer Co., Inc., 1200 kcs. 100(.25).
	Yuma, Ariz., Silver Crest Theaters, 1420 kcs. 100 S. H.

The Month's Changes in Station Data

	New		
720 XEWE	Silao, Gto.	630 KVOD	Denver Colo., from 920
1150 XEXH	Oaxaca, Oax.	740 XEH	Monterrey, N. L., from 720
1160 XEFM	Leon, Gto.	890 KTKC	Visalia, Calif., from 190
1210	Ft. Myers, Fla.	930 WELI	New Haven, Conn., from 900
1230 XEHK	Guadalajara, Jal.	WELI	New Haven, Conn., from 900
1240 XEAD	Aguascalientes, Ags.	630 KVOD	Denver, Colo., 1 kw from 500 w.
1240 XEBC	Morelia, Micho.	630 XEZ	Merida, Yuc., 2 kw from 500 w.
1240 XEDL	Navojoa, Son.	890 KTKC	Visalia, Calif., 1 kw from 250 D.
1280 XEKR	Mexico City, D. F.	920 KFEL	Denver, Colo., 1 kw from 500 w.
1310 KUIN	Grants Pass, Oreg.	1010 XEU	Veracruz, Ver. C., 500 from 250
1310 XEAU	Tijuana, B. Cfa.	1030 XEB	Mexico City, 20 kw from 10 kw.
1340 XELW	Guadalajara, Jal.	1200 KAST	Astoria, Ore., 250 from 100(.25)
1370 WHKY	Hickory, N. C.	1200 KELO	Sioux Falls, S. Dak., 250 from 100 (.25)
1400 XEA	Campeche, Cam.	1200 KGHI	Little Rock, Ark., 250 from 100(.25)
1400 XEAJ	Navojoa, Son.		
1400 XEDM	Torreón, Sin.		
1400 XEDS	Mazatlan, Sin.		
1500	Cordelle, Ga.		
1500	Syracuse, N. Y.		
	Frequency		

(Continued from page 82)

KEY TO SYMBOLS

As Shown in the Index by Frequencies

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

Second Column Symbols

- A—Status in doubt.
- B—National "Blue" Network.
- C—Columbia Network.
- D—Daytime only.
- E—Minor Network.
- F—Canadian Network.
- G—Specified Hours.
- H—Assigned another frequency —using this one under Special Authorization.
- J—Assigned lower power but using this power under Special Authorization.
- K—Licensed for facsimile.
- L—Limited time.
- M—Mutual Network.

- N—National "Red" and "Blue" Networks.
- P—Has Construction Permit only.
- Q—Station not in use.
- R—National "Red" Network.
- S—Sundays only.
- Sy—Synchronized.
- X—Has Permit to change power.
- Y—Has Permit to change location.
- Z—Has Permit to change frequency.

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

NORTH AMERICAN BROADCASTING STATIONS BY FREQUENCIES WITH SUNDAY'S TIME ON THE AIR

Time is Eastern Standard. Subtract 1 hour for Central, 2 hours for Mountain and 3 hours for Pacific. Add 5 hours for GMT. SS is "Sunset" and LS is "Local Sunset"

540 kcs. (552.2 m.)

CBK	F	5000	a	Watrous, Sask.	Noon to midnight
-----	---	------	---	----------------	------------------

550 kcs. (545.1 m.)

CFNB	F	1000	a	Fredericton, N. B.	7 am-11 pm
CMW	...	2500	a	Havana, Cuba.	9:55 am-9 pm
KFUO	2	500(1)	a	St. Louis, Mo.	9:30 am-1:30 pm; 4-5:30 pm; 10:15-11:15 pm
KFYR	N	1000(5)	a	Bismarck, N. Dak.	8 am-1 am
KOAC	...	1000	a	Corvallis, Ore.	Noon to midnight
KSD	2R	1000(5)	a	St. Louis, Mo.	Silent
KTSA	C	1000(5)	a	San Antonio, Texas	.....
WDEV	D	1000	a	Waterbury, Vt.	6 am-LS
WGR	C	1000(5)	a	Buffalo, N. Y.	7 am-midnight
WKRC		1000(5)	a	Cincinnati, Ohio	8 am-2 am
WSVA	D	500	a	Harrisonburg, Va.	9:30 am-5 pm

560 kcs. (535.4 m.)

KFDM	N	500(1)	a	Beaumont, Texas	.....
KLZ	C	1000(5)	a	Denver, Colo.	8:30 am-2 am
KSFO	C	1000(5)	a	San Francisco, Call.	10 am-4 am
KWTO	D	5000	a	Springfield, Mo.	7 am-LS
WFIL	BM	1000	a	Philadelphia, Pa.	8 am-12:30 am
WIND	C	1000(5)	a	Gary, Ind.	6 am-4 am
WIS	N	1000(5)	a	Columbia, S. C.	7 am-midnight
WQAM	C	1000	a	Miami, Fla.	6:45 am-midnight

570 kcs. (526 m.)

KGKO	N	1000(5)	a	Fort Worth, Tex.	7 am-?
KMTR	...	1000	a	Los Angeles, Calif.	8 am-2 am
KVI	C	1000(5)	a	Tacoma, Wash.	9 am-3 am
TI5CV	575	100	z	Alajuela, Costa Rica	.....
WKBN	C1	500(1)	a	Youngstown, Ohio	.....
WMAM	DP	250	z	Marinette, Wis.	.....
WMCA	...	1000	a	New York, N. Y.	7 am-1:15 am
WNAX	C	1000(5)	a	Yankton, S. Dak.	7 am-?
WSOU	1	1000	a	Columbus, Ohio.	Silent
WSYR	Ba	1000	a	Syracuse, N. Y.	7 am-1 am
WSYU	Qa	1000	a	Syracuse, N. Y.	.....
WWNC	C	1000	a	Asheville, N. C.	7:30 am-1 am

580 kcs. (516.9 m.)

CFPR	...	50
CHRC	...	100
CKCL	F	100
CKPR	F	1000
CKUA	F	500
KMJ	EKN	1000
KSAC	2	500(1)
WCHS	C	500(1)
WDBO	C	1000(5)
WIBW	C2	1000(5)
WILL	D	5000
WTAG	R	1000
XEMU	...	250

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

8	am-midnight
8	am-midnight
8	am-midnight
9	am-11 pm
11:15	pm-12:45 am
11	am-3 am
10:30	am-6:30 pm
8:45	am-1 am
7	am-midnight
5	am-?
9	am-LS
7:30	am-1 am
.....	

590 kcs. (508.2 m.)

CMCY	...	15000
KHO	R	1000(5)
WEEI	C	1000(5)
WKZO	BDX	1000(5)
WOW	R	1000(5)

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

8	am-10 pm
11	am-3 am
6:30	am-?
8:15	am-5:15 pm
7	am-3:30 am

600 kcs. (499.7 m.)

CFCF	BF	500
CFQC	F	1000
CJOR	...	500
FQJ	609	250
KFSJ	B	1000
TIGPH	605	1000
WCAO	C	500(1)
WICC	BM	500(1)
WMT	BM	1000(5)
WREC	C	1000(5)

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.

9	am-11:15 pm
.....	
7:45	am-1 am
.....	
11	am-3 am
.....	
8:45	am-midnight
5	am-1 am
6:30	am-1 am
7:30	am-1 am

610 kcs. (491.5 m.)

CHNC	F	1000
KFAR	P	1000
KFRC	M	1000(5)
WCLE	DM	500
WDAF	R	1000(5)
WIOD	Na	1000
WIP	...	1000
WMBF	Qa	1000

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

7:30	am-11 pm
.....	
7:45	am-1 am
.....	
7	am-LS
7:30	am-1 am
7	am-midnight
7	am-1 am
.....	

620 kcs. (483.6 m.)

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

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

9	am-2 am
9	am-1:15 am
.....	
7	am-LS
.....	
8	am-1 am
8	am-5 pm
8	am-?
7	am-1 am
7	am--1:30 am

630 kcs. (475.9 m.)

CFCO	F	100
CFCY	F	1000
CJRC	F	1000
CKOV	F	1000
CMCD	...	15000
KFRU	1	500(1)
KGFX	D	200
KVOD	B	1000
WGBF	N1	500(1)
WMAL	B	250(5)
WPRO	CX	500(1)
XEZ	...	2000

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

8	am-10:30 pm
9	am-11 pm
8:30	am-2 am
9	am-10:30 pm
6-8	pm
8:30	am-6 pm
.....	
9	am-12:30 pm; 9:30 pm-2:30 am
8	am-1 am
6:30	am-midnight
6	am-1 am
.....	

640 kcs. (468.5 m.)

HOK	...	...
KFI	R	50000

z	Colon, Panama
f	Los Angeles, Calif.

Noon-2	pm; 6pm-midnight
9:45	am-3 am

VONF ... 12500
 WGAN CL 500
 WHKC LM 500
 WOI D 5000
 XEBX ... 250
 YSS ... 500

a St. John's, Nfld.
 a Portland, Maine
 a Columbus, Ohio
 a Ames, Iowa
 z Sabinas, Coah.
 a San Salvador, E. S.

8:30 am-12:30 pm; 4:30-9:30 pm
 7 am-SS on Pacific Coast
 6:30 am-7:45 pm
 Usually Silent

650 kcs. (461.3 m.)

TIGPH P ...
 WSM KN 50000

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

.....

660 kcs. (454.3 m.)

CMOA ... 200
 KOWH D 500
 WFAF R 50000
 XEAO ... 250

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

7:55 am-11 pm
 7 am-LS
 6:30 am-1 am

670 kcs. (447.5 m.)

WMAQ R 50000

b Chicago, Ill.

7 am-1 am

680 kcs. (440.9 m.)

CMHW ... 200
 KFQE ... 500(2.5)
 KPO R 50000
 VAS 685 2000
 WLAW D 1000
 WPTF JN 5000

f Santa Clara, Cuba
 a St. Joseph, Mo.
 a San Francisco, Calif.
 f Glace Bay, N. S.
 a Lawrence, Mass.
 a Raleigh, N. C.

.....
 7 am-?
 11 am-3 am

 7 am-LS
 9 am-11 pm

690 kcs. (434.5 m.)

CFRB C 10000
 CJCJ F 100
 CMBC ... 200
 TIGH ... 1000
 XET ... 5000

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

10:30 am-midnight
 9:30 am-1 am
 6:55 am-10:30 pm
 5:30-9 pm

700 kcs. (428.3 m.)

VOWR ... 500
 WLW KMN 50000
 WBXO Exp 50000

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

.....
 8 am-2 am

710 kcs. (422.3 m.)

CMKS ... 200
 KIRO CHJ 1000
 KMPC L 500
 WOR KM 50000

a Guantanamo, Cuba
 a Seattle, Wash.
 a Beverly Hills, Calif.
 a Newark, N. J.

.....
 Until 8 am
 9 am-8 am
 6:25 am-2:05 am

720 kcs. (416.4 m.)

CMK ... 200
 TI4NRH 725 750
 WGN KM 50000
 XEWE ... 20

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

.....

730 kcs. (410.7 m.)

CFPL F 100
 CJCA F 1000
 CKAC C 5000
 XELO ... 50000
 XEPN AQ 100000
 XEQ ... 50000

a London, Ont.
 a Edmonton, Alta.
 a Montreal, P. Q.
 a Tijuana, B. Cfa.
 a Piedras Negras, Coah.
 a Mexico City, D. F.

9 am-3 am
 9 am-2 am
 7:30 am-1 am

740 kcs. (405.2 m.)

GMJX ... 200
 KMMJ L 1000
 KTRB D 250

z Camaguey, Cuba
 a Grand Island, Nebr.
 a Modesto, Calif.

.....

 9 am-8:30 pm

WHEB D 250
 WSB R 50000
 XEH ... 250

a Portsmouth, N. H.
 a Atlanta, Ga.
 a Monterrey, N. L.

7 am-LS
 6:55 am-1 am

750 kcs. (399.8 m.)



CMBL ... 200
 KGU LN 2500
 TING ... 375
 WJR C 50000
 XEAA ... 200
 XEAM ... 25

a Havana, Cuba
 a Honolulu, Hawaii
 z San Jose, Costa Rica
 a Detroit, Mich.
 a Mexicali, B. Cfa.
 z Matamoros, Tam.

.....
 11:30 am-4:30 am

 5:30 am-2 am

760 kcs. (394.5 m.)

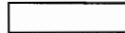


KXA X 250(.5)
 WBAL BHMSy 2500
 WCAL D2 5000
 WEW D 1000
 WJZ BSy 50000
 WLB D2 5000

a Seattle, Wash.
 a Baltimore, Md.
 a Northfield, Minn.
 a St. Louis, Mo.
 a New York, N. Y.
 a Minneapolis, Minn.

Until 6 am
 9 pm-1 am
 Sunrise to LS
 8 am-LS
 6:30 am-1 am

770 kcs. (389.4 m.)

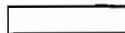


CMKW ... 200
 KFAB CSyXZ 10000
 TILJ 775 450
 WBBM CSy 50000

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

.....
 7 am-1 am

780 kcs. (384.4 m.)



CHWK F 100
 CKSO F 1000
 CMQ N 25000
 KECA ... 1000(.5)
 KFDY D 1000
 KFOD ... 250
 KGHL N 1000(.5)
 KWLK D 250
 WEAN BM 1000(.5)
 WMC JR 5000
 WPIC D 250
 WTAR JN 5000
 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 Longview, Wash.
 a Providence, R. I.
 a Memphis, Tenn.
 a Sharon, Pa.
 g Norfolk, Va.
 a Mexico City, D. F.

11 am-1:15 am
 9 am-midnight

 9 am-? ..
 1:30-3 pm
 11 pm-5 am
 9 am-1 am
 11 am-LS
 6 am-?
 7:45 am-1 am
 8 am-LS
 8:30 am-midnight

790 kcs. (379.5 m.)

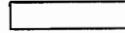


CMGH ... 200
 KGO B 7500
 KOAM DN 1000
 WGY R 50000
 ZNS ... 1000

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

.....
 7 am-1 am
 8:30 am-LS
 7 am-1 am

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.

.....

 7 am-midnight
 9 am-12:30 am
 8:30 am-LS

810 kcs. (370.2 m.)



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

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

.....
 7:30 am-1 am
 7 am-6:30 pm

 11 am-3:15 pm; 7-8:15 pm

820 kcs. (365.6 m.)



WHAS C 50000
 XEBG ... 1000

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

.....

830 kcs. (361.2 m.)

CMHI	E	1000	a	Santa Clara, Cuba	.....
KOA	R	50000	a	Denver, Colo.	9 am-2 am
TIEP	...	3000	a	San Jose, C. Rica	.....
WEEU	DR	1000	a	Reading, Pa.	8 am-5 pm
WHDH	L	1000	a	Boston, Mass.	7 am-?
WRUF	L	5000	a	Gainesville, Fla.	7 am-6pm
XERC	...	500	z	Mexico City, D. F.	.....

840 kcs. (356.9 m.)

CBL	F	50000	a	Toronto, Ont.	10:30 am-midnight
VOGY	...	400	a	St. John's, Nfld.	8:30 am-12:30 pm; .4:30-9:30 pm
XERA	...	250000	a	Villa Acuna, Coah.	.....

850 kcs. (352.7 m.)

CMCM	...	200	a	Havana, Cuba	8 am-11 pm
KIEV	D	250	a	Glendale, Calif.	.....
WESG	CD	1000	a	Elmira, N. Y.	6 am-SS at New Orleans
WKAR	DX	1000	a	E. Lansing, Mich.	7 am-5 pm
WWL	C	50000	a	New Orleans, La.	.....

860 kcs. (348.6 m.)

CMJA	...	200	a	Camaguey, Cuba	.....
TIEMC	...	250	z	San Jose, C. Rica	.....
WABC	Ca	50000	a	New York, N. Y.	6:27 am-2 am
WBOQ	QA	50000	a	New York, N. Y.	.....
WHB	DM	1000	a	Kansas City, Mo.	.....
XEMO	...	5000	a	Tijuana, B. Cfa.	9:45 am-3 am

870 kcs. (344.6 m.)

CMHO	...	.....	z	Sagua la Grande, Cuba	.....
WENR	Ba	50000	b	Chicago, Ill.	3 pm-midnight
WLS	Ba	50000	a	Chicago, Ill.	8 am-3 pm
XEFB	...	200	a	Monterrey, N. L.	.....

880 kcs. (340.7 m.)

CBO	F	1000	a	Ottawa, Ont.	7:45 am-midnight
CFJC	F	1000	a	Kamloops, B. C.	.....
CMX	...	15000	a	Havana, Cuba	8 am-midnight
KFKA	M2	500(1)	a	Greeley, Colo.	7:30 am-1 am
KLX	...	1000	a	Oakland, Calif.	10:30 am-2:30 am
KPOF	2	1000	a	Denver, Colo.	9:30-11 am; 1-2:30 pm; 5-6 pm; 9:30-11 pm
KVAN	D	250	z	Vancouver, Wash.	6 am-LS
TILS	...	500	b	San Jose, C. Rica	.....
WCOC	C	1000	a	Meridian, Miss.	.....
WGBI	CI	500(1)	f	Scranton, Pa.	12:30-10:30 pm
WQAN	I	500(1)	a	Scranton, Pa.	12:30-10 pm
WRNL	DX	500	a	Richmond, Va.	6:30 am-LS
WSUI	...	500(1)	a	Iowa City, Iowa	10 am-11 pm

890 kcs. (336.9 m.)

KARK	N	1000	a	Little Rock, Ark.	7 am-1 am
KFNF	X2	500(1)	a	Shenandoah, Iowa	7 am-1 am
KFPY	C	1000(5)	a	Spokane, Wash.	9:50 am-3 am
KTKC	M	1000	f	Visalia, Calif.	.....
KUSD	2	500	a	Vermillion, S. Dak.	5-6 pm
WBAA	...	500(1)	a	W. Lafayette, Ind.	Noon-6 pm
WGST	C	1000(5)	a	Atlanta, Ga.	.....
WJAR	R	1000(5)	a	Providence, R. I.	7:30 am-1 am
WMMN	C	1000(5)	a	Fairmont, W. Va.	5:30 am-?
XEW	...	100000	a	Mexico City, D. F.	.....

900 kcs. (333.1 m.)

HIG	...	250	z	Trujillo, D. R.	.....
KGBU	X	500	a	Ketchikan, Alaska	.....
KHJ	M	1000(5)	a	Los Angeles, Calif.	11 am-4 am

KSEJ	N	250(1)	a	Pocatello, Idaho	9:30 am-1 am
TIAFB	...	600	z	San Jose, C. Rica	.....
WBEN	R	1000(5)	a	Buffalo, N. Y.	7 am-1 am
WFMD	D	500	a	Frederick, Md.	6:30 am-LS
WJAX	N	1000(5)	a	Jacksonville, Fla.	6:45 am-1 am
WKY	N	1000(5)	a	Oklahoma City, Okla.	7:45 am-1 am
WLBL	D	5000	a	Stevens Point, Wis.	9 am-5 pm
WTAD	D	1000	a	Quincy, Ill.	8 am-5:45 pm

910 kcs. (329.6 m.)

CBF	FN	50000	a	Montreal, P. Q.	8 am-midnight
CJAT	F	1000	a	Trail, B. C.	10 am-2 am
CKY	F	15000	a	Winnipeg, Man.	8:30 am-1 am
CMBO	...	5000	a	Havana, Cuba	8 am-10:30 pm
CMKD	...	1000	a	Santiago de Cuba	.....
XENT	Q	50000	a	Nuevo Laredo, Tam.	7 pm-8:15 am

920 kcs. (325.9)

CMHT	...	200	z	Trinidad, Cuba	.....
KFEL	M	1000	a	Denver, Colo.	8 am-2:30 am
KOMO	R	1000(5)	a	Seattle, Wash.	11 am-2 am
KPRC	ER	1000(5)	a	Houston, Texas	8:30 am-1 am
TIRS	925	200	z	San Jose, C. Rica	.....
WAAF	D	1000	a	Chicago, Ill.	6 am-LS
WORL	D	500	a	Boston, Mass.	7 am-LS
WPEN	...	1000	a	Philadelphia, Pa.	.....
WSPA	D	1000	a	Spartanburg, S. C.	8 am-LS
WWJ	R	1000(5)	a	Detroit, Mich.	.....

930 kcs. (322.4 m.)

CFAC	F	1000	a	Calgary, Alta.	9 am-2 am
CFCH	F	100	a	North Bay, Ont.	.....
CFLC	...	100	a	Prescott, Ont.	7 am-10 pm
CHNS	F	1000	a	Halifax, N. S.	7:30 am-11 pm
CKPC	...	100	a	Brantford, Ont.	.....
CMJF	...	200	z	Camaguey, Cuba	.....
KMA	B	1000(5)	a	Shenandoah, Iowa	.....
KROW	...	1000	a	Oakland, Calif.	9 am-5 am
WBRC	R	1000(5)	a	Birmingham, Ala.	8 am-12:30 am
WDBJ	C	1000(5)	a	Roanoke, Va.	7 am-midnight
WELI	...	250(5)	a	New Haven, Conn.	7 am-?
XEBH	...	500	a	Hermosillo, Son.	1-3 pm; 9 pm-midnight

940 kcs. (319 m.)

CMBZ	...	200	a	Havana, Cuba	7:45 am-1 am
KOIN	C	1000(5)	a	Portland, Ore.	11 am-3 am
TIOS	...	500	z	San Jose, C. Rica	.....
WAAT	D	500	a	Jersey City, N. J.	6:30 am-6 pm
WAVE	N	1000	a	Louisville, Ky.	8 am-1 am
WCBS	R	1000(2.5)	a	Portland, Maine	7:30 am-midnight
WDAY	N	1000(5)	a	Fargo, N. Dak.	7 am-1 am
WHA	D	5000	a	Madison, Wis.	9 am-5:30 pm
WICA	DX	250	a	Ashtabula, Ohio	8 am-LS
XEFO	...	5000	a	Mexico City, D. F.	.....

950 kcs. (315.6 m.)

CBV	F	1000	a	Quebec, P. Q.	Noon-midnight
CJRM	F	1000	a	Regina, Sask.	.....
CMKL	...	200	z	Bayamo, Cuba	.....
KFWB	E	1000(5)	a	Los Angeles, Calif.	9:30 am-4 am
KMBC	C	1000(5)	a	Kansas City, Mo.	6:55 am-1 am
VOAR	...	25	z	St. John's, Nfld.	.....
WRC	R	1000(5)	a	Washington, D. C.	6 am-1 am
WTRY	DP	1000	z	Troy, N. Y.	.....

960 kcs. (312.3 m.)

CBM	FR	5000	a	Montreal, P. Q.	.....
CFRN	F	100	a	Edmonton, Alta.	9:30 am-2 am
XEAW	...	100000	a	Reynosa, Tam.	5-7:15 am; 7-11 pm

970 kcs. (309.1 m.)

CMCK	...	5000
KJR	B	5000
WCFL	N	5000
WIBG	D	100

z	Havana, Cuba	7:50 am-12:30 am
a	Seattle, Wash.	11 am-2 am
a	Chicago, Ill.	8:30 am-5 pm
a	Glenside, Pa.	

980 kcs. (306 m.)

KDKA	B	50000
XEAC	...	5000
XEFE	...	250

b	Pittsburgh, Pa.	.....
a	Tijuana, B. Cfa.	1 pm-1 am
z	Nuevo Laredo, Tam.	.....

990 kcs. (302.8 m.)

WBZ	BSy	50000
WBZA	BSy	1000
XEAF	...	750
XEK	X	100
XES	...	250

a	Boston, Mass.	6 am-1 am
a	Springfield, Mass.	6 am-1 am
a	Nogales, Son.	11 am-3 pm; 7pm-midnight
a	Mexico City, D. F.	.....
a	Tampico, Tam.	.....

1000 kcs. (299.8 m.)

KFVD	L	1000
TIFA	...	250
WHO	KR	50000
XEBI	...	250

a	Los Angeles, Calif.	9 am-8:15 pm
z	San Jose, C. Rica	.....
a	Des Moines, Iowa	9 am-1 am
a	Aguascalientes, Ags.	.....

1010 kcs. (296.9 m.)

CHML	F	100
CKCD	1	100
CKCK	F	1000
CKCO	F	100
CKIC	...	50
CKWX	F1	100
CMCU	...	200
KGGF	M2	1000
KQW	M	1000
WHN	...	1000(5)
WNAD	2	1000
WNOX	C	1000(5)
XEFQ	...	50
XEU	...	500

a	Hamilton, Ont.	9:30 am-11:30 pm
a	Vancouver, B. C.	Silent
a	Regina, Sask.	9:30 am-2 am
a	Ottawa, Ont.	Noon-11:30 pm
a	Wolfville, N. S.	.....
a	Vancouver, B. C.	Noon-4 am
a	Havana, Cuba	6:55 am-1 am
a	Coffeyville, Kans.	11:30 am-10 pm
a	San Jose, Calif.	9:30 am-3 am
a	New York, N. Y.	7 am-1 am
a	Norman, Okla.	3-10:15 pm
a	Knoxville, Tenn.	6:30 am-2 am
a	Cananea, Son.	.....
a	Veracruz, Ver. C.	8 am-1 am

1020 kcs. (293.9 m.)

KYW	R	10000
WDZ	D	1000
XEJ	...	1000

b	Philadelphia, Pa.	7:05 am-10 pm
a	Tuscola, Ill.	7 am-6 pm
a	Juarez, Chih.	.....

1030 kcs. (291.1 m.)

CFCN	F	10000
CJBR	F	1000
CKLW	FM	5000
TIHO	...	500
XEB	...	20000

a	Calgary, Alta.	9 am-1:30 am
a	Rimouski, P. Q.	.....
a	Windsor, Ont.	6:30 am-4 am
z	San Jose, C. Rica	.....
a	Mexico City, D. F.	10 am-12:15 am

1040 kcs. (288.3 m.)

KRLD	C	50000
KWJJ	HL	500
KYOS	DM	250
VOCM	...	100
WTIC	HR	50000

a	Dallas, Texas	.....
a	Portland, Ore.	10 am-5:45 am
a	Merced, Calif.	11 am-LS
z	St. John's, Nfld.	.....
a	Hartford, Conn.	6 am-1 am

1050 kcs. (285.5 m.)

CBA	F	50000
CMCH	...	.....
HIT	...	50
KFBI	LY2	5000

a	Sackville, N. B.	7 am-midnight
z	Havana, Cuba	7:55 am-midnight
z	Trujillo, D. R.	.....
a	Abilene, Kans.	7 am-7:45 pm

KNX	C	50000	b	Los Angeles, Calif.	9:30 am-3:15 am
WEAU	L2	1000(5)	a	Eau Claire, Wis.	.....
WIBC	D	1000	a	Indianapolis, Ind.	9 am-LS

1060 kcs. (282.8 m.)

KTBS	HN	10000	a	Hot Springs, Ark.	9 am-LS; 9pm-1 am
VOAC	1065	40	z	St. John's, Nfld.	.....
WBAL	BM	10000	a	Baltimore, Md.	6 am-9 pm
WJAG	L	1000	a	Norfolk, Nebr.	7:30 am-LS

1070 kcs. (280.2 m.)

CMJW	...	200	z	Camaguey, Cuba	.....
KJBS	L	500	a	San Francisco, Calif.	1 am-9:45 pm
TINBC	P	5000	z	San Jose, C. Rica	.....
WCAZ	D	100	a	Carthage, Ill.	10 am-4 pm
WTAM	R	50000	a	Cleveland, Ohio	6 am-midnight

1080 kcs. (277.6 m.)

CMBX	...	200	a	Havana, Cuba	.....
CMKM	...	200	a	Manzanillo, Cuba	6:45 am-midnight
WBT	L	50000	a	Charlotte, N. C.	6:45 am-midnight
WCBD	LI	5000	a	Chicago, Ill.	.....
WBMI	LI	5000	g	Chicago, Ill.	Noon-3:30 pm
XEBA	...	20	z	Guzman, Jal.	.....
XEBK	...	100	z	Nuevo Laredo, Tam.	.....
XEDP	...	500	a	Mexico City, D. F.	.....

1090 kcs. (275.1 m.)

CMHA	...	200	z	Sagua la Grande, Cuba	.....
HIN	...	100	z	Trujillo, D. R.	.....
KMOX	C	50000	a	St. Louis, Mo.	7 am-1 am
XERB	...	50000	a	Tijuana, B. Cfa.	.....

1100 kcs. (272.6 m.)

CBR	F	5000	a	Vancouver, B. C.	.....
CMHP	...	200	z	Placetas, Cuba	.....
KGDM	DM	1000	f	Stockton, Calif.	9 am-LS
KWKH	CH	50000	a	Shreveport, La.	.....
WBIL	I	5000	a	New York, N. Y.	.....
WCAR	DP	1000	z	Pontiac, Mich.	.....
WPG	C1	5000	z	Atlantic City, N. J.	9 am-8 pm; 9:15pm-midnight
XECL		1000	z	Mexicali, B. Cfa.	.....

1110 kcs. (270.1 m.)

CMCJ	...	200	a	Havana, Cuba	8 am-9 pm
KSOO	LN	5000	a	Sioux Falls, S. Dak.	9 am-LS
WRVA	CM	50000	a	Richmond, Va.	5:55 am-1 am

1120 kcs. (267.7 m.)

CBJ	F	100	a	Chicoutimi, P. Q.	.....
CHLP	F	100	a	Montreal, P. Q.	9 am-11 pm
CHSJ	F	100	a	St. John, N. B.	5 am-midnight
CKOC	F	500(1)	a	Hamilton, Ont.	.....
CKX	F	1000	a	Brandon, Man.	1 pm-12:30 am
CMGF	...	200	a	Matanzas, Cuba	.....
KFIO	D	100	a	Spokane, Wash.	.....
KFSG	a	500(2.5)	a	Los Angeles, Calif.	9 am-3 am
KRKD	a	500(2.5)	a	Los Angeles, Calif.	9 am-3 am
KRSC	...	250	a	Seattle, Wash.	.....
KTBC	D2	1000	z	Austin, Texas	.....
WCOP	D	500	a	Boston, Mass.	7 am-4 pm
WDEL	R	250(1)	a	Wilmington, Del.	9 am-11 pm
WISN	C	250(1)	a	Milwaukee, Wis.	8 am-1 am
WJBO	B	500	a	Baton Rouge, La.	7:45 am-1 am
WTAW	G2	500	a	College Station, Texas	.....

1130 kcs. (265.3 m.)

CMJI	...	200	a	Ciego de Avila, Cuba
KSL	C	50000	a	Salt Lake City, Utah
WJJD	L	20000	a	Chicago, Ill.
WOV	D	1000	a	New York, N. Y.
XEJP	...	100	z	Mexico City, D. F.

Noon-10 pm
8:30 am-3 am
6 am-6:45 pm
.....
.....

1140 kcs. (263 m.)

CMBG	...	200	z	Havana, Cuba
KVOO	N	25000	a	Tulsa, Okla.
WAPI	C	5000	a	Birmingham, Ala.
WSPR	LM	500	a	Springfield, Mass.

7:57 am-11 pm
7 am-?
9 am-1 am
7 am-5:45 pm

1150 kcs. (260.7 m.)

CMKG	...	200	z	Santiago, Cuba
WHAM	N	50000	a	Rochester, N. Y.
XEBP	...	250	z	Durango, Dgo.
XEC	...	100	a	Tijuana, B. Cfa.
XEDW	...	300	a	Minatitlan, Ver. C.
XEL	...	250	z	Mexico City, D. F.
XEXH	...	400	z	Oaxaca, Oax.

.....
7 am-midnight
.....
.....
.....
.....
.....

1160 kcs. (258.5 m.)

CMHJ	...	200	a	Cienfuegos, Cuba
WOWO	B1	10000	a	Fort Wayne, Ind.
WVVA	C1	5000	a	Wheeling, W. Va.
EAS	...	100	a	Saltillo, Coah.
D	...	2500	a	Guadalajara, Jal.
FM	...	...	z	Leon, Gto.
P	...	500	a	Juarez, Chih.

.....
.....
6 am-?
.....
Noon-midnight
.....
9 am-2 am

1170 kcs. (256.3 m.)

1	...	200	a	Havana, Cuba
1	C	50000	a	Philadelphia, Pa.
...	...	1000	z	Mexico City, D. F.

11 am-7 pm
7:30 am-1 am
.....

kcs. (254.1 m.)

B	5000	a	Portland, Ore.
N	10000	a	Albuquerque, N. Mex.
M	1000(5)	a	Minneapolis, Minn.
L	1000	a	New York, N. Y.
CL	1000(5)	a	Macon, Ga.

11 am-3 am
11 am-1 am
7 am-7 pm
.....
7 am-7 pm

1190 kcs. (252 m.)

CMKX	...	200	z	Banes, Cuba
WOAI	EN	50000	a	San Antonio, Texas
WSAZ	L	1000	a	Huntington, W. Va.

.....
7:30 am-12:30 am
7 am-7 pm

1200 kcs. (249.9 m.)

CFGP	...	100	a	Grande Prairie, Alta.
CHAB	F	100(.25)	a	Moose Jaw, Sask.
CHGB	F	100	z	St. Anne de la Pocatiere, P. Q.
CKNX	...	100	z	Wingham, Ont.
CKTB	F	100	a	St. Catharines, Ont.
CMCO	...	200	a	Havana, Cuba
KADA	EM	100	a	Ada, Okla.
KAST	...	250	a	Astoria, Ore.
KBTM	D	100	a	Jonesboro, Ark.
KELO	N	100	a	Sioux Falls, S. Dak.
KFJB	...	100(.25)	a	Marshalltown, Iowa
KFXD	...	100(.25)	a	Nampa, Idaho
KFXJ	...	100(.25)	a	Grand Junction, Colo.
KGDE	...	100(.25)	b	Fergus Falls, Minn.
KGEG	...	100	f	Sterling, Colo.
KGFJ	...	100	a	Los Angeles, Calif.
KGHI	...	250	a	Little Rock, Ark.
KHAS	P	100(.25)	z	Hastings, Nebr.

Noon-8:15 pm
9 am-12:30 am
.....
.....
11 am-1 am
9:30 am-11:30 pm
7:55 am-midnight
.....
9 am-6:30 pm
1 am-1 am
7 am-10 pm
8 am-11 pm
.....
8 am-10 p-m
1-2:15 pm
24 hours daily
8:30 am-11 pm
.....

KMLB	...	250	a	Monroe, La.	.....
KOOS	M	250	a	Marshfield, Ore.	10 am-7:45 pm
KSUN	...	100(.25)	a	Lowell, Ariz.	11 am-midnight
KVCV	M	100	a	Redding, Calif.	.....
KVEC	M	250	a	San Luis Obispo, Calif.	11:30 am-3 am
KVNU	X	100	z	Logan, Utah	9:30 am-?
KVOS	M	100	a	Bellingham, Wash.	.....
KWBD	DP	100	z	Plainview, Texas	.....
KWG	EN	100	z	Stockton, Calif.	10 am-3 am
KWNO	E	250	a	Winona, Minn.	.....
TIRCC	...	500	z	San Jose, C. Rica	.....
WABI	...	250	a	Bangor, Maine	.....
WAIM	C	100	a	Anderson, S. C.	6 am-10 pm
WAYX	...	250	a	Waycross, Ga.	8 am-3 am
WBAB	P	100(.25)	z	Atlantic City, N. J.	.....
WBBZ	M	250	a	Ponca City, Okla.	8 am-10 pm
WBHP	...	100	a	Huntsville, Ala.	.....
WCAT	D	100	a	Rapid City, S. Dak.	Noon-2 pm
WCAX	...	250	a	Burlington, Vt.	Silent
WCLO	...	250	a	Janesville, Wis.	10 am-3 pm
WCPO	...	250	a	Cincinnati, Ohio	7 am-11:30 pm
WDLP	P	100(.25)	z	Panama City, Fla.	.....
WDSM	M	100	z	Superior, Wis.	.....
WENY	P	100(.25)	z	Elmira, N. Y.	.....
WEST	...	250	a	Easton, Pa.	7:30 am-9 pm
WESX	P	100	z	Salem, Mass.	.....
WFAM	4	100	z	South Bend, Ind.	.....
WFTC	...	250	a	Kinston, N. C.	.....
WHBG	...	100(.25)	a	Canton, Ohio	.....
WHBY	E	100(.25)	a	Green Bay, Wis.	10 am-11 pm
WIBX	C	250	a	Utica, N. Y.	5:30 am-1 am
WIL	...	250	a	St. Louis, Mo.	Until 3 am
WJBC	...	250	a	Bloomington, Ill.	4-8:30 pm
WJBL	Z5	100	a	Decatur, Ill.	8-10 am; 1:30-4 pm
WJBW	L	100	a	New Orleans, La.	2 pm-3 am
WJHL	...	250	a	Johnson City, Tenn.	.....
WJNO	C	250	a	W. Palm Beach, Fla.	2-11 am; 1-6 pm; 10 pm
WJRD	D	250	a	Tuscaloosa, Ala.	.....
WKBO	N	100(.25)	a	Harrisburg, Pa.	8 am-11 pm
WLVA	...	250	a	Lynchburg, Va.	7 am-11 pm
WMFR	...	100	a	High Point, N. C.	7:45 am-7 pm
WMOB	DP	100	z	Mobile, Ala.	.....
WMPC	G	250	a	Lapeer, Mich.	7:45 am-7 pm
WOLS	...	100	a	Florence, S. C.	9 am-?
WRBL	C	250	a	Columbus, Ga.	10 am-7 pm
WSKB	D	100	z	McComb, Miss.	.....
WSOO	P	100(.25)	z	Saul Ste. Marie, Mich.	.....
WTHT	M	100	a	Hartford, Conn.	7 am-4:15 pm
WTOL	...	100	a	Toledo, Ohio	.....
WWAE	4	100	a	Hammond, Ind.	.....

1210 kcs. (247.8 m.)

CHLT	...	100	z	Sherbrooke, P. Q.	.....
CJCS	...	50	a	Stratford, Ont.	8 am-9 pm
CJOC	F	100	a	Lethbridge, Alta.	9 am-1 am
CKBI	F	100	a	Prince Albert, Sask.	9:45 am-1 am
CKCH	F	100	a	Hull, P. Q.	8 am-11 pm
CKMC	...	50	a	Cobalt, Ont.	.....
CMHK	...	200	z	Cruces, Cuba	10 am-1 pm; 4-10 pm
KALB	...	250	a	Alexandria, La.	.....
KANS	N	100	a	Wichita, Kans.	7:30 am-midnight
KASA	M	100	a	Elk City, Okla.	7 am-8 pm
KLDR	...	250	a	Devils Lake, N. Dak.	7:30 am-9:30 pm
KDON	M	100	a	Monterey, Calif.	9:30 am-?
KFJI	...	100	a	Klamath Falls, Ore.	9 am-?
KFOR	EM	100(.25)	a	Lincoln, Nebr.	8 am-11:15 pm
KFPW	...	100	a	Fort Smith, Ark.	10 am-3 pm; 6-9:35 pm
KFVS	G6	250	a	Cape Girardeau, Mo.	10 am-3 pm; 6-10 pm
KFXM	M2	100	a	San Bernardino, Calif.	9 am-3 am
KGLO	C	250	z	Mason City, Iowa	8 am-1 am
KGY	M	100	a	Olympia, Wash.	Silent
KHBG	D	100	a	Okmulgee, Okla.	.....
KIUL	...	100	a	Garden City, Kans.	8 am-10 pm
KLAH	...	100(.25)	a	Carlsbad, N. Mex.	11 am-9 pm
KOCA	...	250	a	Kilgore, Texas	.....
KOVO	...	100(.25)	z	Provo, Utah	.....

KPFA	EN	250	a	Helena, Mont.	1 pm-midnight
KPPC	2	100	a	Pasadena, Calif.	Noon-4 pm; 9:45 pm-midnight
KROY	C	100	a	Sacramento, Calif.	9:30 am-2:30 pm
KVSO	M	100(.25)	a	Ardmore, Okla.	8 am-11 pm
KWJB	...	250	a	Globe, Ariz.	.....
KWTN	A	100	a	Watertown, S. Dak.	.....
KXOX	DP	250	z	Sweetwater, Tex.	.....
KYUM	P	100(.25)	z	Yuma, Ariz.	.....
WALR	X	100	a	Zanesville, Ohio	7 am-9 pm
WBAX	M	100	a	Wilkes-Barre, Pa.	.....
WBBL	S	100	a	Richmond, Va.	11 am-9:15 pm
WBRB	3	100	a	Red Bank, N. J.	Silent
WCOL	NXZ	100	a	Columbus, Ohio	7 am-12:30 am
WCOU	M	100(.25)	a	Lewiston, Maine	6 am-midnight
WCOV		100	z	Montgomery, Ala.	.....
WCRW	4	100	a	Chicago, Ill.	11 am-7 pm
WEBO	G6	250	a	Harrisburg, Ill.	7-10 am; 5-10:30 pm
WEDC	...	250	a	Chicago, Ill.	1-7 am
WFAS	3	100	a	White Plains, N. Y.	.....
WFOY	...	100(.25)	a	St. Augustine, Fla.	8 am-8:45 pm
WGBB	3	100	a	Freeport, N. Y.	.....
WGCM	...	100(.25)	a	Gulfport, Miss.	.....
WGRM	Y	100(.25)	a	Grenada, Miss.	8 am-LS
WHAI	M	250	a	Greenfield, Mass.	7 am-?
WHBV	...	100(.25)	a	Anderson, Ind.	.....
WIBU	...	250	a	Poynette, Wis.	.....
WINN	P	100(.25)	z	Louisville, Ky.	.....
WJBY	E	250	a	Gadsden, Ala.	8 am-10:30 pm
WJEF	...	100	a	Hagerstown, Md.	9 am-10 pm
WJIM	B	250	z	Lansing, Mich.	7:15 am-12:30 am
WJLS	...	250	z	Beckley, W. Va.	.....
WJMC	D	250	z	Rice Lake, Wis.	.....
WJTN	B	250	a	Jamestown, N. Y.	8 am-midnight
WJW	...	250	a	Akron, Ohio	8 am-10:30 pm
WKOK	...	100	a	Sunbury, Pa.	6 am-midnight
WLOK	D	100	a	Lima, Ohio	6 am-5:15 pm
WMFG	C	250	a	Hibbing, Minn.	7:30 am-10 pm
WOCB	P	100(.25)	z	Hyannis, Mass.	.....
WOMT	...	100	a	Manitowoc, Wis.	.....
WPAX	...	250	a	Thomasville, Ga.	8 am-6 pm
WPIV	P	100(.25)	z	Petersburg, Va.	.....
WRAL	M	250	z	Raleigh, N. C.	6 am-1 am
WSAY	...	250	a	Rochester, N. Y.	7 am-12:30 am
WSBC	4	250	a	Chicago, Ill.	6 am-midnight
WSIX	M	250	a	Nashville, Tenn.	7 am-1 am
WSNJ	...	250	a	Bridgeton, N. J.	9 am-?
WSOC	MN	100(.25)	a	Charlotte, N. C.	7 am-midnight
WTAX	...	100	a	Springfield, Ill.	.....
WTMA	...	250	z	Charleston, S. C.	.....
XEAT	...	250	a	Parral, Chih.	11 am-9 pm
XEE	...	50	a	Durango, Dgo.	.....
XEFV	...	50	a	Juarez, Chih.	.....
XETH	...	100	a	Puebla, Pue.	.....
.....	P	100(.25)	z	Ft. Myers, Fla.	.....

1220 kcs. (245.8 m.)



KFKU	a	1000(5)	a	Lawrence, Kans.	3:30-7:30 pm
KTMS	BE	500	z	Santa Barbara, Calif.	.....
KTW	S2	1000	a	Seattle, Wash.	Until 1 am
KWSC	2	1000(5)	a	Pullman, Wash.	9:45 am-12:30 am
TIGPH2	1225	1000	b	San Jose, C. Rica	.....
WCAD	D	500	a	Canton, N. Y.	12:30-4 pm
WCAE	MR	1000(5)	a	Pittsburgh, Pa.	7 am-2:30 am
WDAE	C	1000(5)	a	Tampa, Fla.	7:30 am-midnight
WGNV	D	250	a	Newburgh, N. Y.	7:30 am-LS
WREN	aB	1000(5)	a	Lawrence, Kans.	8 am-7 pm
XEBL	...	500	z	Mazatlan, Sin.	.....
XEDA	...	200	z	Mexico City, D. F.	.....
XETF	...	12	a	Veracruz, Ver. C.	.....

1230 kcs. (243.8 m.)



CMCB	...	200	a	Havana, Cuba	8 am-11 pm
CMJE	...	200	z	Camaguey, Cuba	.....
KGBX	N	500	a	Springfield, Mo.	.....
KGGM	C	1000	a	Albuquerque, N. Mex.	9:30 am-11:30 pm
KYA	E	1000(5)	a	San Francisco, Calif.	11 am-3 am

WFBM	C	1000(5)
WNAC	R	1000(5)
WOL	M	1000
XEG	...	250
XECA	...	250
XEHK	...	125

a	Indianapolis, Ind.	7:30 am-1 am
a	Boston, Mass.	5 am-1 am
a	Washington, D. C.	7 am-2 am
z	Monterrey, N. L.	.....
z	Tampico, Tam.	.....
z	Guadalajara, Jal.	.....

1240 kcs. (241.8 m.)

CJCB	F	1000
CMAB	...	200
CMHB	...	200
KFJZ	M	1000
KGCU	...	250
KTFI	N	1000
WHBF	M	1000
WKAO	C	1000
WXYZ	B	1000
XEAD	...	500
XEBC	...	100
XEBU	...	50
XECW	...	250
XEDL	...	250
XEKL	A	500
XEME	...	50

a	Sydney, N. S.	10-11:30 am; 2:30-11 pm
z	Pinar del Rio, Cuba	.....
z	Sancti Spiritus, Cuba	.....
a	Fort Worth, Texas	8 am-12:30 am
a	Mandan, N. Dak.	1-8 pm
a	Twin Falls, Idaho	9 am-1 am
a	Rock Island, Ill.	8 am-midnight
a	San Juan, Puerto Rico	6 am-9:30 pm
a	Detroit, Mich.	.....
z	Aguascalientes, Ags.	.....
z	Morelia, Micho.	.....
z	Chihuahua, Chih.	.....
z	Cordoba, Ver. C.	.....
z	Navojoa, Son.	.....
b	Leon, Gto.	.....
z	Merida, Yuc.	.....

1250 kcs. (239.9 m.)

CMKC	...	200
KFOX	...	1000
KIT	ME	1000
KXOK	...	1000
WAIR	DM	250
WDSU	B	1000
WHBI	2	100(2.5)
WKST	DX	250
WMRO	D	250
WNEW	Z	1000(5)
WTCN	2	1000(5)
XEAI	...	500

a	Santiago, Cuba	.....
a	Long Beach, Calif.	.....
a	Yakima, Wash.	11 am-3 am
z	St. Louis, Mo.	.....
a	Winston-Salem, N. C.	8 am-LS
a	New Orleans, La.	7 am-midnight
a	Newark, N. J.	.....
a	New Castle, Pa.	9 am-LS
z	Aurora, Ill.	.....
a	New York, N. Y.	On all night
a	Minneapolis, Minn.	7 am-midnight
z	Mexico City, D. F.	.....

1260 kcs. (238 m.)

CMBD	...	200
CMJO	...	200
KGVO	C	1000(5)
KHSL	M	250
KOIL	CEM	1000(5)
KPAC	DZ	500
KRGV	MN	1000
KUOA	D	5000
KVOA	EN	1000
WFVA	D	250
WHIO	C	1000(5)
WHLH	DP	1000
WNBX	CM	1000
WTOC	C	1000

z	Havana, Cuba	.....
a	Ciego de Avila, Cuba	.....
a	Missoula, Mont.	8:50 am-1 am
a	Chico, Calif.	.....
a	Omaha, Nebr.	.....
a	Port Arthur, Texas	6 am-5:45 pm
a	Weslaco, Texas	8 am-11 pm
a	Siloam Springs, Ark.	7 am-LS
a	Tucson, Ariz.	9 am-11:30 pm
z	Fredericksburg, Va.	.....
a	Dayton, Ohio	6 am-1 am
z	Niagara Falls, N. Y.	.....
a	Springfield, Vt.	7 am-midnight
a	Savannah, Ga.	7 am-midnight

1270 kcs. (236.1 m.)

CMHD	...	200
KGCA	DQ2	100
KOL	M	1000(5)
KVOR	C	1000
KWLC	DZ	100
WASH	aDN	500
WFBR	R	1000(5)
WJDX	R	1000(5)
WOOD	aN	500
XESM	...	100
XEXB	A	250
XEXE	...	17

d	Caibarien, Cuba	.....
a	Decorah, Iowa	8:45 am-3:30 pm
a	Seattle, Wash.	.....
a	Colorado Springs, Colo.	9 am-1 am
a	Decorah, Iowa	9:30 am-5:30 pm
a	Grand Rapids, Mich.	7 am-midnight
a	Baltimore, Md.	9 am-midnight
a	Jackson, Miss.	.....
a	Grand Rapids, Mich.	7 am-midnight
z	Mexico City, D. F.	.....
a	Jalapa, Ver. C.	.....
z	Texcoco, D. F.	.....

1280 kcs. (234.2 m.)

CMKO	...	200
KFBB	C	1000(5)

z	Holguin, Cuba	.....
a	Great Falls, Mont.	11 am-midnight

KLS	..	250
WCAM	..	500
WCAP	2	500
WDOD	C	1000(5)
WIBA	N	1000(5)
WORC	C	500
WRR	M	500
WTNJ	2	500
XEKR	..	100
XEMX	A	100

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.

.....
10:15 am-12:30 pm; 3-5 pm
6:-10:15 am; 12:30-3 pm; 8
pm-midnight
7:30 am-12:30 am
8 am-1 am
8 am-midnight
8 am-midnight
.....

1290 kcs. (232.4 m.)

CMCG	...	200
CMJK	...	200
KDYL	R	1000(5)
KLCN	D	100
KTRH	C	1000(5)
WATR	..	250
WBCB	MN	1000(5)
WJAS	C	1000(5)
WJHP	P	250
WNBZ	D	100
WNEL	...	1000(2.5)

a	Havana, Cuba
a	Camaguey, Cuba
a	Salt Lake City, Utah
a	Blytheville, Ark.
a	Houston, Texas
a	Waterbury, Conn.
a	Duluth, Minn.
a	Pittsburgh, Pa.
z	Jacksonville, Fla.
a	Saranac Lake, N. Y.
a	San Juan, Puerto Rico

7 am-midnight
.....
8 am-3 am
.....
9 am-1 am
8 am-?
8 am-1 am
7:30 am-12:30 am
.....
9:30 am-LS
6:30 am-11:30 pm

1300 kcs. (230.6 m.)

KALE	M	1000
KFAC	..	1000
KFCH	C	1000(5)
KBBD	2	1000
KEVD	2	1000
KFBZ	N	1000(5)
HAZ	2	1000
HBL	...	250(1)

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.
g	Sheboygan, Wis.

10 am-3 am
.....
9 am-1 am
8-11 am; 3-8 pm
7 am-4 am
6:30 am-midnight
6 pm-midnight
9 am-midnight

10 kcs. (228.9 m.)

<	..	50
F	F	100
F	F	100
F	F	100
?
M	C	100
C	..	250
E	..	250
J	..	100(.25)
L	..	100(.25)
YO	M	100(.25)
GEZ	..	100
KGFW	..	250
KHUB	..	100(.25)
KOCY	..	250
KOME	EM	250
KPDN	D	100
KRBA	D	250
KRMD	..	250
KROC	EN	100(.25)
KRRV	DM	250
KSRO	..	250
KSUB	..	100
KTSM	N	100(.25)
KUIN	P	100
KVIC	P	100(.25)
KVOL	..	250
KVOX	E	250
KVSF	..	100
KWFC	P	100(.25)
KWOC	D	100
KWOS	..	250
KXRO	M	250
TGI	..	.....
WAML	..	250
WBEO	G	250
WBOW	NXZ	100(.25)
WBRE	N	250

a	Charlottetown, P. E. I.
a	Kirkland Lake, Ont.
a	Yarmouth, N. S.
a	Quebec, P. Q.
z	Manzanillo, Cuba
a	Corsicana, Texas
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.
z	Oklahoma City, Okla.
z	Tulsa, Okla.
a	Pampa, Texas
a	Lufkin, Texas
a	Shreveport, La.
a	Rochester, Minn.
a	Sherman, Texas
a	Santa Rosa, Calif.
a	Cedar City, Utah
a	El Paso, Texas
z	Grants Pass, Ore.
z	Victoria, Texas
a	Lafayette, La.
a	Moorhead, Minn.
a	Santa Fe, N. Mex.
z	Hot Springs, Ark.
a	Poplar Bluff, Mo.
a	Jefferson City, Mo.
a	Aberdeen, Wash.
d	Guatemala City, Guat.
a	Laurel, Miss.
a	Marquette, Mich.
a	Terre Haute, Ind.
a	Wilkes-Barre, Pa.

.....
.....
7:55 am-11:30 pm
.....
7 am-?
11 am-3 am
.....
9:45 am-1 am
.....
7 am-10:45 am
8 am-10:15 pm
9 am-11 pm
7 am-10 pm
10 am-?
7:45 am-?
.....
9 am-6:15 pm
10 am-10 pm
7 am-12:15 am
.....
11 am-2 am
.....
8:30 am-1 am
.....
7 am-7 pm
8 am-10 pm
Noon-5 pm
.....
9 am-6 pm
9 am-9pm
10 am-2 am
.....
10 am-10 pm
.....
7 am-midnight
.....

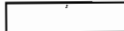
WBRK	M	250	a	Pittsfield, Mass.	7 am-1 am
WCLS	L	100	a	Joliet, Ill.	8 am-9:30 pm
WCMI	M	250	a	Ashland, Ky.	6 am-11:30 pm
WDAH	S	100(.25)	a	El Paso, Texas	11:30 am-10:30 pm
WEBR	B	250	a	Buffalo, N. Y.	7 am-midnight
WEMP	...	250	a	Milwaukee, Wis.	7:30 am-?
WEXL	...	50	a	Royal Oak, Mich.	8 am-4 am
WFBG	...	100	a	Altoona, Pa.	7 am-10:30 pm
WFDL	B	100	a	Flint, Mich.	7 am-midnight
WFIG	P	100(.25)	z	Sumter, S. C.	.....
WGAU	...	100(.25)	a	Athens, Ga.	7 am-midnight
WGH	K	250	a	Newport News, Va.	7 am-midnight
WGTM		100	a	Wilson, N. C.	.....
WHAT	4	100	a	Philadelphia, Pa.	.....
WJPF	P	100(.25)	z	Herrin, Ill.	.....
WJPR	P	100(.25)	z	Greenville, Miss.	.....
WLAK	N	250	z	Lakeland, Fla.	.....
WLBC	...	250	a	Muncie, Ind.	7 am-midnight
WLBJ	P	100(.25)	z	Bowling Green, Ky.	.....
WLEN	MX	100	a	Laconia, N. H.	7 am-midnight
WMBO	...	250	a	Auburn, N. Y.	.....
WMFF	B	250	a	Plattsburg, N. Y.	9 am-9 pm
WNBH	M	100(.25)	a	New Bedford, Mass.	7:30 am-11:15 pm
WRAW	...	100	a	Reading, Pa.	7 am-11 pm
WROL	N	100(.25)	a	Knoxville, Tenn.	.....
WSAJ	...	100	a	Grove City, Pa.	.....
WSAV	P	100	z	Savannah, Ga.	.....
WSGN	BE	100(.25)	a	Birmingham, Ala.	8 am-midnight
WSJS	C	250	a	Winston-Salem, N. C.	8 am-10 pm
WTAL	...	100(.25)	a	Tallahassee, Fla.	8 am-midnight
WTEL	4	100	a	Philadelphia, Pa.	8 am-midnight
WTJS	...	100(.25)	a	Jackson, Tenn.	8 am-midnight
WTRC	...	250	a	Elkhart, Ind.	7 am-8:30 pm
XEAG	...	250	z	Cordoba, Ver. C.	.....
XEAU	...	250	z	Tijuana, B. Cfa.	.....
XEBQ	...	25	z	Irapuato, Gto.	.....
XEFW	...	300	a	Tampico, Tam.	.....
XETB	...	500	a	Torreón, Coah.	.....
XEX	...	500	a	Monterrey, N. L.	.....

1320 kcs. (227.1 m.)



CMCR	...	200	z	Havana, Cuba	.....
KGHF	B	500	a	Pueblo, Colo.	9 am-1 am
KGMB	CMZ	1000	a	Honolulu, Hawaii	1:30 am-6 pm
KID	...	500(1)	a	Idaho Falls, Idaho	6 am-?
KRNT	C	1000(5)	a	Des Moines, Iowa	6:30 am-1 am
WADC	C	1000(5)	a	Akron, Ohio	7 am-1 am
WORK	N	1000	a	York, Pa.	8 am-10 pm
WSMB	R	1000(5)	a	New Orleans, La.	.....

1330 kcs. (225.4 m.)



KGB	M	1000	a	San Diego, Calif.	10 am-4 am
KMO	M	1000	a	Tacoma, Wash.	9 am-3 am
KRIS	MN	500	a	Corpus Christi, Tex.	8:30 am-midnight
KSCJ	N	1000(5)	a	Sioux City, Iowa	9 am-1 am
WDRC	C	1000(5)	g	Hartford, Conn.	7 am-midnight
WSAI	MN	1000(5)	a	Cincinnati, Ohio	7 am-1 am
WTAQ	C	1000(5)	a	Green Bay, Wis.	11 am-1 am

1340 kcs. (223.7 m.)



KDTH	DP	500	z	Dubuque, Iowa	.....
KGIR	EN	1000(5)	a	Butte, Mont.	.....
KGNO	...	250(1)	b	Dodge City, Kans.	8:30 am-midnight
WCOA	N	500(1)	a	Pensacola, Fla.	.....
WFEA	MN	500(1)	a	Manchester, N. H.	8 am-1 am
WFNC	DP	250	z	Fayetteville, N. C.	.....
WSPD	B	1000(5)	a	Toledo, Ohio	8:30 am-1 am
XEAP	...	50	z	Obregon, Son.	.....
XEBJ	...	100	a	Victoria, Tam.	.....
XEBS	...	200	z	Mexico City, D. F.	.....
XEDH	...	200	z	Villa Acuna, Coah.	.....
XEFC	...	100	a	Merida, Yuc.	.....
XEBW	...	250	a	Chihuahua, Chih.	.....
XELW	...	250	z	Guadalajara, Jal.	.....

1350 kcs. (222.1 m.)

CMCA	...	200	a	Havana, Cuba
KIDO	N	1000(2.5)	a	Boise, Idaho
KWK	BM	1000(5)	a	St. Louis, Mo.
WAWZ	2	1000	a	Zarephath, N. J.
WBNX	2	1000	a	New Cork, N. Y.
WMBG	RX	500	a	Richmond, Va.

.....
 9 am-2 am
 6:30 am-1 am
 6-9 am; 11 am-12:30 pm;
 3-4 pm; 7-8:30 pm

 7 am-midnight

1360 kcs. (220.4 m.)

CMJH	...	200	d	Ciego de Avila, Cuba
KCRC	EM	250	a	Enid, Okla.
KGER	...	1000	a	Long Beach, Calif.
KLPM	...	500(1)	a	Minot, N. Dak.
KSLM	M	500	a	Salem, Ore.
WCSC	N	500(1)	a	Charleston, S. C.
WFBL	C	1000(5)	a	Syracuse, N. Y.
WGES	2	500(1)	a	Chicago, Ill.
WOBC	D	1000	a	Vicksburg, Miss.
WSBT	C2	500	a	South Bend, Ind.

.....
 8 am-11 pm
 10 am-2 pm

 10 am-1 am
 7 am-midnight
 7 am-1 am
 8 am-9 pm (1 kw Sunday only)

1370 kcs. (218.8 m.)

CFAR	...	100	a	Flin Flon, Man.
CFOS	...	100	z	Owen Sound, Ont.
CKCW	F	100	a	Moncton, N. B.
CKRN	...	250	z	Rouyn, P. Q.
CMGE	...	200	a	Cardenas, Cuba
HIZ	...	75	z	Trujillo, D. R.
KEEN	3	100	a	Seattle, Wash.
KELD	...	100	z	El Dorado, Ark.
KERN	EN	100	a	Bakersfield, Calif.
KFGO	D	100	a	Boone, Iowa
KFRD	DMX2	250	a	Longview, Texas
KGFL	4	100	a	Roswell, N. Mex.
KGKL	M	250	a	San Angelo, Texas
KICA	4	100	a	Clovis, N. Mex.
KIUN	...	100	a	Pecos, Texas
KIUP	...	100	a	Durango, Colo.
KLUF	M	250	a	Galveston, Tex.
KMAC	5	100(.25)	a	San Antonio, Tex.
KOBH	...	250	a	Rapid City, S. Dak.
KOKO	...	100	a	La Junta, Colo.
KONO	5	100	a	San Antonio, Tex.
KRE	...	250	a	Berkeley, Calif.
KRKO	3	50	a	Everett, Wash.
KRMC	...	250	a	Jamestown, N. Dak.
KTEM	M	250	a	Temple, Texas
KTOK	EMN	250	a	Oklahoma City, Okla.
KTSW	X	100	a	Emporia, Kans.
KTUC	C	100(.25)	a	Tucson, Ariz.
KUJ	...	100	a	Walla Walla, Wash.
KVFD	LP	100(.25)	z	Fort Dodge, Iowa
KVGB	...	100	z	Great Bend, Kans.
KVRS	...	100(.25)	a	Rock Springs, Wyo.
KWYO	...	250	a	Sheridan, Wyo.
WABY	BM	100(.25)	a	Albany, N. Y.
WAGF	D	250	a	Dothan, Ala.
WATL	...	250	a	Atlanta, Ga.
WBLK	N	250	a	Clarksburg, W. Va.
WBNY	2	100(.25)	a	Buffalo, N. Y.
WBTH	...	250	z	Williamson, W. Va.
WBTM	...	100(.25)	a	Danville, Va.
WCBM	...	250	a	Baltimore, Md.
WCNC	...	100(.25)	z	Elizabeth City, N. C.
WCOS	P	100(.25)	z	Columbia, S. C.
WDAS	...	250	a	Philadelphia, Pa.
WDWS	...	100(.25)	a	Champaign, Ill.
WEOA	C	250	a	Evansville, Ind.
WFOR	...	100	a	Hattiesburg, Miss.
WFTL	P	100(.25)	z	Ft. Lauderdale, Fla.
WGBR	...	100	z	Goldsboro, N. C.
WGL	N	250	a	Fort Wayne, Ind.
WGRC	M	250	a	New Albany, Ind.
WHBQ	...	100	a	Memphis, Tenn.
WHDF	...	250	a	Calumet, Mich.
WHKY	P	100(.25)	z	Hickory, N. C.

3-8 pm

 10 am-10:30 pm

 3 pm-1 am

 11 am-3 am
 7 am-2 pm
 7:45 am-LS
 9 am-P

 9 am-11 pm
 10 am-10 pm
 10 am-11 pm
 9 am-11:30 pm
 8 am-9 pm
 8 am-midnight
 1-6 pm
 7 am-11 pm
 On all night
 Noon-7 pm
 10 am-7 pm

 8 am-1 am

 11 am-1 am
 9:30 am-1 am

 9 am-midnight
 7 am-midnight
 9 am-LS
 7 am-1 am
 9 am-11 pm
 7:30 am-midnight ...

 7 am-10 pm

 7 am-11 pm

 8 am-midnight
 9 am-midnight
 9 am-1 am
 8 am-9 pm

 9 am-P
 8 am-11:30 pm
 10:30 am-6:30 pm

WHLB	C	250	a	Virginia, Minn.	.....
WHLB	...	250	a	Port Huron, Mich.	8 am-7:30 pm
WHUB	P	100(.25)	z	Cookeville, Tenn.	.....
WIBM	B	250	a	Jackson, Mich.	6:30 am-12:30 pm
WISE	N	100	z	Asheville, N. C.	.....
WJAC	...	250	a	Johnstown, Pa.	.....
WLLH	MSy	100(.25)	a	Lowell, Mass.	7:30 am-midnight
WLLH	Sy	100	a	Lawrence, Mass.	7:30 am-midnight
WMAN	DP	250	z	Mansfield, Ohio	.....
WMBR	C	100(.25)	a	Jacksonville, Fla.	7:30 am-midnight
WMFD	...	100(.25)	a	Wilmington, N. C.	10:30 am-6:15 pm
WMFO	DE	100	a	Decatur, Ala.	8 am-6:30 pm
WMGA	P	100(.25)	z	Moultrie, Ga.	.....
WMIN	...	250	a	St. Paul, Minn.	7 am-1 am
WOC	C	100(.25)	a	Davenport, Iowa	9 am-midnight
WPAY	...	100	a	Portsmouth, Ohio	7 am-10:15 pm
WPRA	XX	1000(.25)	a	Mayaguez, P. R.	.....
WRAK	...	250	a	Williamsport, Pa.	10 am-12:30 pm; 5-7 pm
WRDO	MN	100	a	Augusta, Maine	10 am-11:15 pm
WRJN	...	250	a	Racine, Wis.	8:45 am-midnight
WSAU	...	250	a	Wausau, Wis.	7 am-11:15 pm
WSVS	Dz	50	b	Buffalo, N. Y.	Silent
WTSP	P	100(.25)	z	St. Petersburg, Fla.	.....
XECZ	...	100	z	San Luis Potosi, S. L. P.	.....
XEI	...	125	a	Morelia, Micho.	.....
XELZ	...	100	z	Mexico City, D. F.	.....

1380 kcs. (217.3 m.)

CMCW	...	200	d	Havana, Cuba	11:55 am-8 pm
KOH	C	500	a	Reno, Nev.	11 am-3 am
KQV	...	500(1)	b	Pittsburgh, Pa.	7 am10 pm
WALA	CX	500(1)	a	Mobile, Ala.	8:30 am-midnight
WING	N	250(.5)	a	Dayton, Ohio	7 am-5:30 pm; 7:30 pm-1 am
WKBH	C	1000	a	La Crosse, Wis.	10 am-midnight
WNBC	B	250(1)	a	New Britain, Conn.	7 am-midnight

1390 kcs. (215.7 m.)

CMJC	...	200	z	Camaguey, Cuba	.....
KABR	...	500(1)	a	Aberdeen, S. Dak.	10 am-6:15 pm
KLRA	C	1000(5)	a	Little Rock, Ark.	.....
KOY	C	1000	g	Phoenix, Ariz.	9 am-12:15 am
KRLC	...	250	a	Lewiston, Idaho	3-10:30 pm
WHK	KBM	1000(5)	a	Cleveland, Ohio	7 am-midnight
WQDM	D	1000	f	St. Albans, Vt.	6 am-LS
XEM	...	500	z	Chihuahua, Chih.	.....

1400 kcs. (214.2 m.)

CMKR	...	200	z	Santiago de Cuba	.....
KHBC	CM	250	a	Hilo, Hawaii	Until 4 am
KLO	B	1000(5)	a	Ogden, Utah	9:30 am-1:30 am
KTUL	C	1000(5)	a	Tulsa, Okla.	8 am-1:15 am
TGX	...	...	d	Guatemala City, Guat.	.....
WARD	2	500	a	Brooklyn, N. Y.	3:45-6 pm
WBBC	2	500	a	Brooklyn, N. Y.	7-10:30 am
WHDL	D	250	a	Olean, N. Y.	.....
WIRE	MR	1000(5)	a	Indianapolis, Ind.	7:30 am-1 am
WLTH	2	500	a	New York, N. Y.	Silent—Special authorization
WVFW	2	500	a	Brooklyn, N. Y.	Noon-1:30 pm
XEA	...	250	z	Campeche, Cam.	.....
XEAJ	...	100	z	Navojoa, Son.	.....
XEDM	...	100	z	Torreón, Coah.	.....
XEDS	...	250	z	Mazatan, Sin.	.....

1410 kcs. (212.5 m.)

CKFC	2	50	a	Vancouver, B. C.	.....
CKMO	2	100	a	Vancouver, B. C.	11 am-?
CMCQ	...	200	a	Havana, Cuba	7 am-10 pm
KFJM	...	500(1)	a	Grand Forks, N. Dak.	10 am-10 pm
KGNC	N	1000(.25)	a	Amarillo, Texas	7 am-?
KMED	N	250	b	Medford, Ore.	.....

WAAB	EM	1000	a	Boston, Mass.	7 am-?
WBCM	...	500(1)	a	Bay City, Mich.	9 am-12:30 am
WHIS	...	500(1)	a	Bluefield, W. Va.	5 am-9 pm
WROK	...	500(1)	a	Rockford, Ill.	7:30 am-midnight
WSFA	CE	500(1)	a	Montgomery, Ala.	7:30 am-midnight

1420 kcs. (211.1 m.)

CBY	F	100	a	Toronto, Ont.	.....
CHLN	...	100	z	Three Rivers, P. Q.	.....
CKCA	F	100(.25)	a	Kenora, Ont.	.....
CKLN	...	100	z	Nelson, B. C.	.....
CMJP	M	200	a	Moron, Cuba	11 am-midnight
KABC	M	100(.25)	a	San Antonio, Texas	7 am-12:15 am
KATE	E	100(.25)	a	Albert Lea, Minn.	7:30 am-?
KBPS	4	100	a	Portland, Ore.	Silent
KCMC	M	250	a	Texarkana, Texas	8 am-midnight
KDNT	D	100	a	Denton, Texas	8:30 am-LS
KEUB	...	100	a	Price, Utah	9:30 am-midnight
KFAM	EN	250	a	St. Cloud, Minn.	10 am-7 pm
KFIZ	E	100	a	Fond du Lac, Wis.	.....
KGFF	EM	250	a	Shawnee, Okla.	8 am-10 pm
KGIW	3	100	a	Alamosa, Colo.	9:30 am-10:30 pm
KGLU	...	100(.25)	a	Safford, Ariz.	.....
KIDW	3	100	a	Lamar, Colo.	9 am-8 pm
KLBM	...	100(.25)	z	La Grande, Ore.	10 am-?
KNET	D	100	a	Palestine, Texas	.....
KORE	M	100	a	Eugene, Ore.	10 am-?
KRBC	M	250	a	Abilene, Texas	8 am-10 pm
KRBM	E	100(.25)	z	Bozeman, Mont.	.....
KRIC	...	250	z	Beaumont, Texas	8 am-?
KRLH	...	100	a	Midland, Texas	.....
KSAN	...	100	a	San Francisco, Calif.	.....
KTRI	...	100(.25)	f	Sioux City, Iowa	10 am-midnight
KVAK	D	100	z	Atchison, Kans.	.....
KWAL	P	100(.25)	z	Wallace, Idaho	.....
KWBG	...	100	a	Hutchinson, Kans.	9 am-10 pm
KXL	4	250	b	Portland, Ore.	3 am-1 am next morning
WACO	CM	250	b	Waco, Texas	8 am-1 am
WAGM	...	100	a	Presque Isle, Maine	11 am-7 pm
WAPQ	N	100(.25)	a	Chattanooga, Tenn.	7 am-7 pm
WAZL	...	100	a	Hazleton, Pa.	9 am-10 pm
WCBS	...	100(.25)	a	Springfield, Ill.	8 am-11 pm
WCHV	...	250	a	Charlottesville, Va.	7 am-midnight
WEED	...	250	a	Rocky Mount, N. C.	8 am-8 pm
WELL	B	100	a	Battle Creek, Mich.	7:30 am-midnight
WFMJ	D	100	z	Youngstown, Ohio	.....
WGNC	...	250	z	Gastonia, N. C.	8 am-11 pm
WGPC	...	100	a	Albany, Ga.	.....
WHFC	...	250	a	Cicero, Ill.	7 am-1 am
WHMA	...	100	a	Anniston, Ala.	.....
WILM	...	100	a	Wilmington, Del.	.....
WJMS	...	250	a	Ironwood, Mich.	11 am-7 pm
WLAP	M	100(.25)	a	Lexington, Ky.	9 am-11 pm
WLEU	B	100(.25)	a	Erie, Pa.	.....
WLPM	P	100(.25)	z	Suffolk, Va.	.....
WMAS	C	250	a	Springfield, Mass.	7 am-midnight
WMBC	...	250	a	Detroit, Mich.	7:30 am-midnight
WMBH	...	250	a	Joplin, Mo.	9 am-midnight
WMB5	...	250	a	Uniontown, Pa.	6 am-6 pm
WMFJ	...	100	a	Daytona Beach, Fla.	8 am-9 pm
WMSD	...	100	a	Muscle Shoals City, Ala.	8 am-11 pm
WNOE	...	250	a	New Orleans, La.	On all night
WPAD	...	250	a	Paducah, Ky.	7 am-midnight
WPAR	C	100	a	Parkersburg, W. Va.	.....
WPRP	...	100(.25)	a	Ponce, Puerto Rico	.....
WSLI	...	250	a	Jackson, Miss.	9 am-10 pm
WSPB	P	100(.25)	z	Sarasota, Fla.	.....

1430 kcs. (209.7 m.)

CJGX	F	1000	a	Yorkton, Sask.	Noon-midnight
CMKZ	...	200	z	Palma Soriano, Cuba	.....
KGNF	D	1000	a	North Platte, Nebr.	8 am-6:15 pm
KINY	X	250	a	Juneau, Alaska	Noon-?
KSO	BM	1000(5)	a	Des Moines, Iowa	8 am-2 am
WBNS	C	1000(5)	a	Columbus, Ohio	8 am-1 am

WHEC	C	500(1)	a	Rochester, N. Y.	7 am-midnight
WHP	C	1000(5)	a	Harrisburg, Pa.	6:30 am-midnight
WMPB	B	500(1)	a	Memphis, Tenn.	10 am-10 pm
WOKO	CK	500(1)	a	Albany, N. Y.	8 am-1 am
XERH	...	500	z	Mexico City, D. F.	.....

1440 kcs. (208.2 m.)

CKGB	F	100	a	Timmins, Ont.	11 am-11:30 pm
CMBY	...	200	a	Havana, Cuba	7:55 am-11 pm
KDFN	...	500	a	Casper, Wyo.	.....
KELA	M	1000	a	Centralia, Wash.	11 am-3 am
KXYZ	BM	1000	a	Houston, Texas	On all night
WBIG	C	1000(5)	a	Greensboro, N. C.	6:30 am-11:30 pm
WCBA	a	500	a	Allentown, Pa.	7 am-midnight
WMBD	C	1000(5)	a	Peoria, Ill.	7 am-midnight
WSAN	aN	500	a	Allentown, Pa.	1-11:30 pm
XEFI	...	1000	a	Chihuahua, Chih.	.....

1450 kcs. (206.8 m.)

CFCT	...	500	a	Victoria, B. C.	10:45 am-12:15 am
CHGS	F	50	f	Summerside, P. E. I.	6:30 am-10 pm
CMHM	...	200	z	Cienfuegos, Cuba	.....
HRN	...	500	b	Tegucigalpa, Hond.	Noon-1 pm; 2-3 pm; 7-11:30 pm
KCMO	...	1000	a	Kansas City, Mo.	7 am-2 am
KGCX	...	1000	a	Wolf Point, Mont.	.....
KIEM	M	500(1)	a	Eureka, Calif.	10 am-1 am
KTBS	NZ	1000	a	Shreveport, La.	7:30 am-1 am
TGO	...	200	a	Quezaltenango, Guat.	.....
WAGA	B	500(1)	a	Atlanta, Ga.	9 am-2 am
WGAR	C	1000(5)	a	Cleveland, Ohio	7 am-midnight
WHOM	...	250	a	Jersey City, N. J.	7 am-midnight
WSAR	M	1000	f	Fall River, Mass.	7:30 am-midnight
XEF	...	100	a	Juarez, Chih.	.....

1460 kcs. (205.4 m.)

CMKF	...	250	z	Holguin, Cuba	.....
KSTP	RX	10000(25)	z	St. Paul, Minn.	7 am-2 am
WJSV	CX	10000	a	Washington, D. C.	8 am-11 am

1470 kcs. (204 m.)

CMCX	...	200	z	Havana, Cuba	9 am-11 pm
HI80	1475	100	z	Trujillo, D. R.	.....
KGA	BM	5000	a	Spokane, Wash.	.....
WLAC	...	5000	a	Nashville, Tenn.	.....

1480 kcs. (202.6 m.)

CMHX	...	200	a	Cienfuegos, Cuba	.....
KOMA	C	5000	a	Oklahoma City, Okla.	7:30 am-1 am
WHIP	D	5000	z	Hammond, Ind.	9 am-5:30 pm
WKBW	C	5000	a	Buffalo, N. Y.	8 am-1 am

1490 kcs. (201.2 m.)

CMKQ	E	1000	z	Santiago de Cuba	.....
KFBK	EKN	10000	a	Sacramento, Calif.	11 am-3 am
WCKY	C	50000	a	Covington, Ky.	7 am-midnight
XECH	...	250	z	Toluca, Mex.	.....
XEDR	...	100	z	Guaymas, Son.	.....

1500 kcs. (199.9 m.)

CJIC	F	100	a	Sault Ste. Marie, Ont.	10 am-10 pm
CMOX	...	200	a	Havana, Cuba	11 am-11pm
KAWM	...	100	a	Gallup, N. Mex.	1:45-6 pm
KBIX	EM	100	a	Muskogee, Okla.	8 am-11 pm
KBKR	P	100(.25)	z	Baker, Ore.	.....
KBST	M	100	a	Big Spring, Texas	.....
KDAL	C	100	a	Duluth, Minn.	10 am-midnight
KDB	EM	100(.25)	a	Santa Barbara, Calif.	11 am-3 am
KDRO	...	100(.25)	z	Sedalia, Mo.	.....

KFDA	M	100	z	Amarillo, Texas	.....
KGFI	...	100(.25)	a	Brownsville, Texas	9 am-10:30 pm
KGKB	M	100(.25)	a	Tyler, Texas	8 am-1 am
KGKY	...	250	a	Scottsbluff, Nebr.	8:30 am-11 pm
KNEL	D	250	a	Brady, Texas	8 am-6 pm
KNOW	M	250	a	Austin, Texas	.....
KOTN	D	100	a	Pine Bluff, Ark.	8 am-LS
KOVC	...	100(.25)	a	Valley City, N. Dak.	8 am-10 pm
KPAB	...	250	a	Laredo, Texas	On all night
KPLC	...	250	a	Lake Charles, La.	.....
KPLT	M	100(.25)	a	Paris, Texas	.....
KPO	M	250	a	Wenatchee, Wash.	.....
KRNR	M	100(.25)	a	Roseburg, Ore.	.....
KROD	P	100	z	El Paso, Texas	.....
KSAL	XZ	100(.25)	s	Salina, Kans.	.....
KSAM	D	250	z	Huntsville, Texas	.....
KTOH	P	100(.25)	z	Lihue, Hawaii	.....
KUTA	N	100	a	Salt Lake City, Utah	11 am-2 am
KVOE	M	100	a	Santa Ana, Calif.	Noon-2 am
KVWC	...	250	z	Vernon, Texas	.....
KWEW	D	100	z	Hobbs, N. Mex.	9 am-?
KXO	M	100	a	El Centro, Calif.	11 am-midnight
KYCA	P	100(.25)	z	Prescott, Ariz.	.....
KYSM	N	100(.25)	a	Mankato, Minn.	.....
WCNW	Z	100(.25)	a	Brooklyn, N. Y.	9 am-midnight
WDAN	...	250	a	Danville, Ill.	9 am-?
WDNC	...	250	a	Durham, N. C.	7:30 am-12:30 am
WGAL	N	250	a	Lancaster, Pa.	.....
WGIL	D	250	a	Galesburg, Ill.	.....
WGKV	N	100	z	Charleston, W. Va.	.....
WGTC	DP	250	z	Greenville, N. C.	.....
WHBB	...	100	a	Selma, Ala.	7:30 am-?
WJBK	...	250	a	Detroit, Mich.	On all night
WKAT	...	250	z	Miami Beach, Fla.	.....
WKBB	CY	250	a	E. Dubuque, Ill.	9 am-1 am
WKBV	...	100(.25)	a	Richmond, Ind.	Silent
WKBZ	...	250	a	Muskegon, Mich.	7 am-10 pm
WKEU	D	100	a	Griffin, Ga.	.....
WKNY	DP	100	z	Kingston, N. Y.	.....
WMEX	...	100(.25)	a	Boston, Mass.	8 am-?
WMOG	P	-00(.25)	z	Brunswick, Ga.	.....
WNBK	C	250	a	Binghamton, N. Y.	.....
WNLC	M	100	a	New London, Conn.	7:30 am-?
WOMI	...	250	a	Owensboro, Ky.	6 am-midnight
WOPJ	X	100	a	Bristol, Tenn.	7 am-10 pm
WRDW	C	250	a	Augusta, Ga.	7 am-9 pm
WRGA	...	250	a	Rome, Ga.	8 am-11 pm
WRTD	B	100	a	Richmond, Va.	7 am-1 am
WSTP	M	250	a	Salisbury, N. C.	.....
WSYB	XM	100	a	Rutland, Vt.	8:30 am-9 pm
WTMC	...	100	z	Ocala, Fla.	.....
WTMV	...	250	a	E. St. Louis, Ill.	.....
WWRL	Z	100(.25)	a	Woodside, N. Y.	8 am-midnight
WWSW	...	250	a	Pittsburgh, Pa.	.....
XEQK	...	400	z	Mexico City, D. F.	.....

1510 kcs. (198.6 m.)

CFRC	F	100	a	Kingston, Ont.	Noon-11 pm
CKCR	...	100	a	Waterloo, Ont.	8 am-11 pm

1520 kcs. (197.3 m.)

TGW	...	5000	e	Guatemala City, Gat.	Midnight to 1 am; 10:30 am-5:15 pm; 7 pm;-midnight
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1530 kcs. (196 m.)

CMC	...	200	z	Havana, Cuba
KITE	...	1000	a	Kansas City, Mo.	9 am-1 am
WAKR	P	1000	z	Akron, Ohio
WBRY	CM	1000	a	Waterbury, Conn.	8:30 am-midnight

1550 kcs. (193.4 m.)

KPMC	M	1000	a	Bakersfield, Calif.	10 am-2 am
WQXR	...	1000	a	New York, N. Y.	7:30 am-midnight

1560 kcs. (192.2 m.)
CMBF ... 5000 z Havana, Cuba

2:30 pm-midnight

1580 kcs. (189.8 m.)
CM9RT ... 200 z Guines, Cuba

.....

1600 kcs. (187.4 m.)
CMBH ... 5000 z Havana, Cuba

.....

(Continued from page 62)

1200 KOOS	Marshfield, Ore., 250 from 100(.25)	1250 KIT	Yakima, Wash., 1 kw from 250(.5)
1200 KVEC	San Luis Obispo, Calif., 250 from 100(.25)	1310 KBND	Bend, Ore., 250 from 100(.25)
1200 KWNO	Winona, Minn., 250 from 100(.25)	1310 KCKN	Kansas City, Kans., 250 from 100
1200 WABI	Bangor, Me., 250 from 100(.25)	1310 KGFW	Kearney, Nebr., 250 from 100(.25)
1200 WAYX	Waycross, Ga., 250 from 100(.25)	1310 KOCY	Oklahoma City, Okla., 250 from 100(.25)
1200 WBBZ	Ponca City, Okla., 250 from 100(.25)	1310 KOME	Tulsa, Okla., 250 from 100(.25)
1200 WCAX	Burlington, Vt., 250 from 100(.25)	1310 KRBA	Lufkin, Tex., 250 from 100
1200 WPCO	Cincinnati, Ohio, 250 from 100(.25)	1310 KVOL	Lafayette, La., 250 from 100(.25)
1200 WEST	Easton, Pa., 250 from 100(.25)	1310 KVOX	Moorhead, Minn., 250 from 100(.25)
1200 WFTC	Kinston, N. C., 250 from 100(.25)	1310 KWOS	Jefferson City, Mo., 250 from 100(.25)
1200 WIBX	Utica, N. Y., 250 from 100(.25)	1310 KXRO	Aberdeen, Wash., 250 from 100(.25)
1200 WJHL	Johnson City, Tenn., 250 from 100(.25)	1310 WBEO	Marquette, Mich., 250 from 100(.25)
1200 WJNO	W. Palm Beach, Fla., 250 from 100(.25)	1310 WBRE	Wilkes Barre, Pa., 250 from 100(.25)
1200 W MPC	Lapeer, Mich., 250 from 100(.25)	1310 WBRK	Pittsfield, Mass., 250 from 100(.25)
1200 WRBL	Columbus, Ga., 250 from 100(.25)	1310 WCMI	Ashland, Ky., 250 from 100(.25)
1210 KALB	Alexandria, La., 250 from 100(.25)	1310 WGH	Newport News, Va., 250 from 100(.25)
1210 KDLR	Devils Lake, N. Dak., 250 from 100(.25)	1310 WMBO	Auburn, N. Y., 250 from 100(.25)
1210 KFVS	Cape Girardeau, Mo., 250 from 100(.25)	1310 WMFF	Plattsburg, N. Y., 250 from 100(.25)
1210 KGLO	Mason City, Iowa, 250 from 100(.25)	1310 XEAG	Cordoba, Ver. C., 250 from 10
1210 KOCA	Kilgore, Tex., 250 from 100(.25)	1370 KGKL	San Angelo, Tex., 250 from 100(.25)
1210 KPFA	Helena, Mont., 250 from 100(.25)	1370 KOBH	Rapid City, S. Dak., 250 from 100(.25)
1210 KWJB	Globe, Ariz., 250 from 100(.25)	1370 KRE	Berkeley, Calif., 250 from 100(.25)
1210 WEBQ	Harrisburg, Ill., 250 from 100(.25)	1370 KRMC	Jamestown, N. Dak., 250 from 100(.25)
1210 WEDC	Chicago, Ill., 250 from 100(.25)	1370 KTEM	Temple, Tex., 250 from 100(.25)
1210 WIBU	Poynette, Wis., 250 from 100(.25)	1370 KWYO	Sheridan, Wyo., 250 from 100(.25)
1210 WJBY	Gadsden, Ala., 250 from 100(.25)	1370 WABY	Albany, N. Y., 250 from 100(.25)
1210 WJIM	Lansing, Mich., 250 from 100(.25)	1370 WATL	Atlanta, Ga., 250 from 100(.25)
1210 WJTN	Jamestown, N. Y., 250 from 100(.25)	1370 WBTH	Williamson, W. Va., 250 from 100
1210 WJW	Akron, Ohio, 250 from 100(.25)	1370 WCBM	Baltimore, Md., 250 from 100(.25)
1210 WPAX	Thomasville, Ga., 250 from 100(.25)	1370 WDAS	Philadelphia, Pa., 250 from 100(.25)
1210 WSAY	Rochester, N. Y., 250 from 100(.25)	1370 WGL	Fort Wayne, Ind., 250 from 100(.25)
1210 WSNJ	Bridgeton, N. J., 250 from 100(.25)	1370 WHDF	Calumet, Mich., 250 from 100(.25)
1220 XEBL	Mazatlan, Sin., 500 from 50	1370 WHLS	Port Huron, Mich., 250 from 100(.25)

(Please turn to page 88)

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.

ALABAMA

Anniston	1420
WAMA	1420
Birmingham	
WAPI	1140
WBRC	930
WSGN	1310
Decatur	
WMFO	1370
Dothan	
WAGF	1370
Gadsden	
WJBY	1210
Huntsville	
WBHP	1200
Mobile	
WALA	1380
WMOB	1280
Montgomery	
WCOV	1210
WSFA	1410
Selma	
WBBB	1500
Muscle Shoals	
City	
WMSD	1420
Tuscaloosa	
WJRD	1200

ALASKA

Anchorage	
KFQD	780
Fairbanks	
KFAR	610
Juneau	
KINY	1430
Ketchikan	
KGBU	900

ARIZONA

Globe	
KWJB	1210
Jerome	
KCBJ	1310
Lowell	
KSUN	1200
Phoenix	
KOY	1390
KTAB	620
Prescott	
KYCA	1500
Safford	
KGLU	1420
Tucson	
KTUC	1370
KVOA	1260
Yuma	
KYUM	1210

ARKANSAS

Blytheville	
KLGN	1290

El Dorado

KELD	1370
Fort Smith	
KFPW	1210
Hot Springs	
KTHS	1060
KWFC	1310
Jonesboro	
KBTM	1200
Little Rock	
KARK	890
KGHI	1200
KLBA	1390
Pine Bluff	
KOTN	1500
Siloam Springs	
KUOA	1260

CALIFORNIA

Bakersfield	
KERN	1370
KPMC	1550
Berkeley	
KRE	1370
Beverly Hills	
KMPK	710
Chico	
KHSL	1260
El Centro	
KXO	1500
Eureka	
KIEM	1450
Fresno	
KARM	1310
KMJ	580
Glendale	
KIEV	850
Long Beach	
KFOX	1250
KGER	1360
Los Angeles	
KECA	780
KFAC	1300
KFI	640
KFSG	1120
KFVD	1000
KFWB	950
KGFJ	1200
KHJ	900
KMTR	570
KNX	1050
KRKD	1120
Merced	
KYOS	1040
Modesto	
KTRB	740
Monteary	
KDON	1210
Oakland	
KLS	1280
KLX	880
KROW	930
Pasadena	
KPPC	1210
Redding	
KVCV	1200
Sacramento	
KFBK	1490
KROY	1210

San Bernardino

KFXM	1210
San Diego	
KFSD	600
KGB	1330
San Francisco	
KFRC	610
KGO	790
KJBS	1070
KPO	680
KSAN	1420
KSFO	560
KYA	1230
San Jose	
KQW	1010
San Luis Obispo	
KVEC	1200
Santa Ana	
KVOE	1500
Santa Barbara	
KDB	1500
KTMS	1220
Santa Rosa	
KSRO	1310
Stockton	
KGDM	1100
KWG	1200
Visalia	
KTEC	890
Watsonville	
KHUB	1310

COLORADO

Alamosa	1420
KGIW	1420
Colorado Springs	
KVOR	1270
Denver	
KFEL	920
KLZ	560
KOA	880
KPOF	880
KVOD	630
Durango	
KIUP	1370
Grand Junction	
KFXJ	1200
Greeley	
KFKA	880
La Junta	
KOKO	1370
Lamar	
KIDW	1420
Pueblo	
KGHF	1320
Sterling	
KGEK	1200

CONNECTICUT

Bridgeport	
WICC	600
Hartford	
WDRC	1330
WTIC	1040
WTHT	1200
New Britain	
WNBC	1380

New Haven

WELI	930
New London	
WNLC	1500
Waterbury	
WATR	1290
WBRV	1530

DELAWARE

Wilmington	
WDEL	1120
WILM	1420

DISTRICT OF COLUMBIA

Washington	
WJSV	1460
WMAL	630
WOL	1230
WRC	950

FLORIDA

Daytona Beach	
WMRJ	1420
Ft. Lauderdale	
WPTL	1370
Gainesville	
WRUF	830
Jacksonville	
WJAX	900
WJLP	1290
WMBR	1370
Lakeland	
WLAK	1310
Miami	
WIOD	610
WMBF	610
WQAM	560
Miami Beach	
WKAT	1500
Ocala	
WTMC	1500
Orlando	
WDBO	580
Panama City	
WDJP	1200
Pensacola	
WCOA	1340
St. Augustine	
WFOY	1210
St. Petersburg	
WSUN	620
WTSP	1370
Sarasota	
WSPB	1420
Tallahassee	
WTAL	1310
Tampa	
WDAE	1220
WFLA	620
West Palm Beach	
WJNO	1200

GEORGIA

Albany	
WGPC	1420
Athens	
WGAU	1310

Atlanta	
WAGA	1450
WATL	1370
WMBI	1080
WGST	890
WSB	740
Augusta	
WRDW	1500
Brunswick	
WMOG	1500
Columbus	
WRBL	1200
Griffin	
WKGE	1500
Macon	
WMAZ	1180
Moultrie	
WMOA	1370
Rome	
WRGA	1500
Savannah	
WSAV	1310
WTOC	1260
Thomasville	
WPAX	1210
Waycross	
WAYX	1200

HAWAII

Hilo	
KHBC	1400
Honolulu	
KGMB	1320
KGU	750
Lihoe	
KTOH	1500

IDAHO

Boise	
KIDO	1350
Idaho Falls	
KID	1320
Lewiston	
KRLC	1390
Nampa	
KFXD	1200
Pocatello	
KSEI	900
Twin Falls	
KTFI	1240
Wallace	
KWAL	1420

ILLINOIS

Aurora	
WMRO	1250
Bloomington	
WJBC	1200
Carthage	
WCAZ	1070
Champaign	
WDWS	1370
Chicago	
WAAF	920
WBBM	770
WCBD	1080
WCFB	970
WCBW	1210
WEDC	1210
WENZ	870

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

WGES	1360
WGN	720
WJJD	1190
WLS	870
WMAQ	670
WMBI	1080
WSBC	1210
Cicero	
WHFC	1420
Danville	
WDAN	1500
Decatur	
WJBL	1200
East Dubuque	
WKBB	1500
East St. Louis	
WTMV	1500
Galesburg	
WGLL	1500
Harrisburg	
WEBQ	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

INDIANA

Anderson	
WBHU	1210
Elkhart	
WTRC	1310
Evansville	
WEOA	1370
WGBF	330
Fort Wayne	
WGL	1370
WOWO	1160
Gary	
WIND	560
Hammond	
WHIP	1480
WWAE	1200
Indianapolis	
WFMB	1230
WIBC	1050
WIRE	1400
Muncie	
WLBC	1310
New Albany	
WGRC	1370
Richmond	
WKBV	1500
South Bend	
WFAM	1200
WSBT	1360
Terre Haute	
WBOW	1310
West Lafayette	
WBAA	890

IOWA	
Ames	
WOI	640
Boone	
KFGQ	1370
Cedar Rapids	
WMT	600
Davenport	
WOC	1370
Decorah	
KGGA	1270
KWLC	1270
Des Moines	
KRNT	1320
KSO	1430
WHO	1000
Dubuque	
KDTH	1340
Fort Dodge	
KVFD	1370
Iowa City	
WSU	880
Marshalltown	
KFJB	1200
Mason City	
KGLO	1210
Shenandoah	
KFNF	890
KMA	930
Sioux City	
KSCJ	1330
KTRI	1420

KANSAS

Abilene	
KFBT	1050
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	
KFKU	1220
WREN	1220
Manhattan	
KSAC	580
Pittsburg	
KOAM	790
Salina	
KSAL	1500
Topeka	
WIBW	580
Wichita	
KANS	1210
KFH	1300

KENTUCKY

Ashland	
WCMI	1310
Bowling Green	
WBLJ	1310

Covington	
WCXY	1490
Lexington	
WLAP	1420
Louisville	
WAVE	940
WHAS	820
WINN	1210
Owensboro	
WOMI	1500
Paducah	
WPAD	1420

LOUISIANA

Alexandria	
KALB	1210
Baton Rouge	
WJBO	1120
Lafayette	
KVOL	1310
Lake Charles	
KPLC	1500
Monroe	
KMLB	1200
New Orleans	
WDSU	1250
WJWB	1200
WNOE	1430
WSMB	1320
WWL	850
Shreveport	
KRAMD	1310
KTBS	1450
KWKH	1100

MAINE

Augusta	
WRDO	1370
Bangor	
WABI	1200
WLBZ	620
Lewiston	
WCOU	1210
Portland	
WCSH	940
WGAN	640
Presque Isle	
WAGM	1420

MARYLAND

Baltimore	
WBAL	760
WBAL	1060
WCAO	600
WCBM	1370
WFBR	1270
Cumberland	
WTBO	800
Frederick	
WFMD	900
Hagerstown	
WJEJ	1210
Salisbury	
WSAL	1200

MASSACHUSETTS

Boston	
WAAB	1410

WBZ	990
WCOP	1120
WEHI	590
WHDD	380
WMEX	1600
WNAC	1230
WORL	920
Fall River	
WSAR	1450
Greenfield	
WHAI	1210
Hyannis	
WOCB	1210
Lawrence	
WLAW	680
WLLH	1370
Lowell	
WLLH	1370
New Bedford	
WNLH	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	
WJBK	1500
WJR	750
WMBG	1420
WWJ	920
WYZZ	1240
East Lansing	
WKAR	850
Flint	
WFDF	1310
Grand Rapids	
WASH	1270
WOOD	1270
Ironwood	
WJMS	1420
Jackson	
WIBM	1370
Kalamazoo	
WKZO	590
Lansing	
WJIM	1210
Lapeer	
WMPC	1200
Marquette	
WBEO	1310
Muskegon	
WKBZ	1500
Pontiac	
WCAR	1100
Port Huron	
WELS	1370
Royal Oak	
WEXL	1310
Sault Ste. Marie	
WSOO	1200

MINNESOTA

Albert Lea	
KATE	1420
Duluth	
KDAL	1500
WEBC	1290
Fergus Falls	
KGDE	1200
Hibbing	
WMPG	1210
Mankato	
KYSM	1500
Minneapolis	
WCOC	810
WDGY	1189
WLB	760
WTCN	1250
Moorhead	
KVOX	1310
Northfield	
WCAL	760
Rochester	
KROC	1310
St. Cloud	
KPAM	1420
St. Paul	
KSTP	1460
WMIN	1370
Virginia	
WHLB	1370
Winona	
KWNO	1200

MISSISSIPPI

Greenville	
WJPR	1310
Grenada	
WGRM	1210
Gulfport	
WGCM	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	1210
Columbia	
KFRU	630
Jefferson City	
KWOS	1310
Joplin	
WMBH	1420
Kansas City	
KCMO	1450
KTTE	1530
KMBC	960
WDAF	610
WHB	860
Poplar Bluff	
KWOC	1310

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

St. Joseph	
KFEQ	690
St. Louis	
KFUO	550
KMOX	1090
KSD	550
KWK	1350
KXOK	1250
WEW	760
WIL	1200
Sedalia	
KDRO	1500
Springfield	
KGBX	1230
KWTO	560

MONTANA	
Billings	
KGHL	780
Bozeman	
KRBM	1420
Butte	
KGIB	1340
Great Falls	
KFBB	1280
Helena	
KPFA	1210
Kallispoll	
KGEZ	1810
Missoula	
KGVO	1260
Wolf Point	
KGCC	1450

NEBRASKA	
Grand Island	
KMMJ	740
Hastings	
KLAS	1200
Kearney	
KGFW	1310
Lincoln	
KFAB	770
KFOR	1210
Norfolk	
WJAG	1060
North Platte	
KGNF	1430
Omaha	
KOIL	1260
KOWH	660
WOW	590
Scottsbluff	
KGKY	1500

NEVADA	
Reno	
KOH	1380

NEW HAMPSHIRE	
Laconia	
WLNH	1310
Manchester	
WREA	1340
Portsmouth	
WHEB	740

NEW JERSEY	
Asbury Park	
WCAP	1280

Atlantio City	
WBAB	1200
WPG	1100
Bridgeton	
WSNJ	1210
Camden	
WCAM	1280
Jersey City	
WAAT	940
WHOM	1450
Newark	
WHBI	1260
WOR	710
Red Bank	
WERB	1210
Trenton	
WTNJ	1280
Zarephath	
WAWZ	1350

NEW MEXICO	
Albuquerque	
KGGM	1230
KOB	1180
Carlsbad	
KLAH	1210
Clovis	
KICA	1370
Gallup	
KAWM	1500
Hobbs	
KWEW	1500
Roswell	
KGFL	1370
Santa Fe	
KVSF	1310

NEW YORK	
Albany	
WABY	1370
WOKO	1430
Auburn	
WMOB	1810
Binghamton	
WNBH	1500
Brooklyn	
WARD	1400
WBBC	1400
WBEB	1300
WCNW	1500
WYFW	1400
Buffalo	
WBEN	900
WBNY	1870
WEBB	1310
WGB	550
WKBW	1480
WSVS	1370
Canton	
WCAD	1220
Elmira	
WENY	1200
WESG	850
Freeport	
WGBB	1210
Jamestown	
WJTN	1210
Kington	
WKNY	1500
Newburgh	
WGNV	1220
New York	
WABC	860

WBIL	1100
WBNX	1250
WBOQ	860
WEAF	660
WEVD	1300
WHN	1010
WINS	1180
WJZ	760
WLTH	1400
WMCA	570
WNEW	1250
WNYC	810
WOV	1130
WQXR	1550
Niagara Falls	
WHLD	1260
Olean	
WDDL	1400
Plattsburg	
WMFF	1310
Rochester	
WHAM	1150
WHSC	1430
WSAY	1210
Saranac Lake	
WNBZ	1290
Schenectady	
WGY	790
Syracuse	
WFBL	1360
WSTP	570
WSYU	570
Troy	
WHAZ	1300
WTRY	950
Utica	
WBX	1200
White Plains	
WFAS	1210
Woodside	
WWRL	1500

NORTH CAROLINA	
Ashville	
WISE	1370
WWNC	570
Charlotte	
WBT	1080
WSOC	1210
Durham	
WDNC	1500
Elizabeth City	
WCNC	1370
Fayetteville	
WFNC	1340
Gastonia	
WGNC	1420
Goldsbore	
WGGB	1370
Greensboro	
WBIG	1440
Greenville	
WCPC	1500
Hickory	
WKYK	1370
High Point	
WMFR	1200
Kinston	
WFTC	1200
Raleigh	
WPTF	680
WRAL	1210
Rocky Mount	
WEED	1420

Sallebury	
WSTP	1500
Wilmington	
WMFD	1370
Wilson	
WGTM	1310
Winston-Salem	
WAIR	1250
WSJS	1310
NORTH DAKOTA	
Bismarek	
KFYR	550
Devils Lake	
KDLR	1210
Fargo	
WDAY	940
Grand Forks	
KFJM	1410
Jamestown	
KRMC	1370
Mandan	
KGCU	1240
Minot	
KLPM	1360
Valley City	
KOVC	1500

OHIO	
Akron	
WADC	1320
WAKR	1530
WJW	1210
Ashtabula	
WICA	940
Canton	
WBHC	1200
Cincinnati	
WCPO	1200
WKRC	550
WLW	700
WSAI	1380
WXXO	700
Cleveland	
WCLE	610
WGAR	1450
WHK	1390
WTAM	1070
Columbus	
WBNS	1480
WCOL	1210
WHKC	640
WOSU	570
Dayton	
WHIO	1260
WING	1380
Lima	
WLOK	1210
Mansfield	
WMAN	1370
Portsmouth	
WPAY	1370
Toledo	
WSPD	1240
WTOL	1200
Youngstown	
WFMY	1420
WKBN	570
Zanesville	
WALR	1210

OKLAHOMA	
Ada	
KADA	1200

Ardmore	
KVSO	1210
Elk City	
KASA	1210
Enid	
KCBC	1360
Muskogee	
KBIX	1500
Norman	
WNAD	1010
Oklahoma City	
KOCY	1310
KOMA	1480
KTOK	1370
WKY	900
Oklmulgee	
KHBG	1210
Ponca City	
WBBZ	1200
Shawnee	
KGFF	1420
Tulsa	
KOME	1310
KTUL	1400
KVOO	1140

OREGON	
Astoria	
KAST	1200
Baker	
KBKR	1500
Bend	
KBND	1310
Corvallis	
KOAC	550
Eugene	
KOBE	1420
Grants Pass	
KUIN	1310
Klamath Falls	
KFFJ	1210
La Grande	
KLBM	1420
Marshfield	
KOOS	1200
Medford	
KMED	1410
Portland	
KALE	1300
KBPS	1420
KEX	1180
KGW	620
KOIN	940
KWJJ	1040
KXL	1420
Roseburg	
KRNR	1500
Salem	
KSLM	1360
Pennsylvania	
Allentown	
WCBA	1440
WSAN	1440
Altoona	
WFPG	1310
Easton	
WEST	1200
Erle	
WLEU	1420
Glenside	
WIBG	970
Greensburg	
WHJB	620

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Grove City	
WSAJ	1310
Harrisburg	
WHP	1430
WKBO	1200
Hazelton	
WAZL	1420
Johnstown	
WJAC	1370
Lancaster	
WGAL	1500
New Castle	
WKST	1250
Philadelphia	
KYW	1020
WCAU	1170
WDAS	1370
WFIL	560
WHAT	1310
WIP	610
WPEN	920
WTEL	1310
Pittsburgh	
KDKA	980
KQV	1380
WCAE	1220
WIAS	1290
WWSW	1500
Reading	
WEEU	830
WRAW	1310
Scranton	
WGBI	880
WQAN	880
Sharon	
WPIC	780
Sunbury	
WKOK	1210
Uniontown	
WMBS	1420
Wilkes-Barre	
WBAX	1210
WBRE	1310
Williamsport	
WRAC	1370
York	
WORK	1320

PUERTO RICO

Mayaguez	
WPRA	1370
Ponce	
WPRP	1420
San Juan	
WKAQ	1240
WNEL	1290

RHODE ISLAND

Providence	
WEAN	780
WJAR	890
WPRO	630

SOUTH CAROLINA

Anderson	
WAIM	1200
Charleston	
WCSC	1360
WTMA	1210
Columbia	
WCOS	1370

WIS	580
Florence	
WOLS	1200
Greenville	
WFBC	1300
Spartanburg	
WSPA	920
Sumter	
WFIG	1310

SOUTH DAKOTA

Aberdeen	
KABR	1390
Brookings	
KFDY	780
Pierre	
KGFX	630
Rapid City	
KOBH	1370
WCAT	1200
Sioux Falls	
KELO	1200
KSOO	1110
Vermillion	
KUSD	890
Yankton	
WNAX	570

TENNESSEE

Bristol	
WOPI	1500
Chattanooga	
WAPO	1420
WDOD	1280
Cookeville	
WHUB	1370
Jackson	
WTJS	1310
Johnson City	
WJHL	1200
Knoxville	
WNOX	1010
WROL	1310
Memphis	
WHBQ	1370
WMC	780
WMPS	1430
WREC	600
Nashville	
WLAC	1470
WSIX	1210
WSM	650

TEXAS

Abilene	
KRBC	1420
Amarillo	
KFDA	1500
KGNC	1410
Austin	
KNOW	1500
KTBC	1120
Beaumont	
KFDM	560
KRIC	1420
Big Spring	
KBST	1500
Brady	
KNEL	1500

Brownsville	
KGFI	1500
College Station	
WTAW	1120
Corpus Christi	
KRIS	1330
Corsicana	
KAND	1310
Dallas	
KRLD	1040
WFAA	800
WBR	1280
Denton	
KDNT	1420
Dublin	
KFPL	1310
El Paso	
KROD	1500
KTSM	1310
WDAH	1310
Fort Worth	
KFJZ	1240
KGKO	570
WBAP	800
Galveston	
KLUF	1370

Houston	
KPRC	920
KTRH	1290
KXYZ	1440
Huntsville	
KSAM	1500
Kilgore	
KOCA	1210
Laredo	
KPAB	1500
Longview	
KPRO	1370
Lubbock	
KFYO	1310
Lufkin	
KRBA	1310

Midland	
KRLH	1420
Palestine	
KNEI	1420
Pampa	
KPDN	1310
Paris	
KPLT	1500
Pecos	
KIUN	1370
Plainview	
KWBD	1200
Port Arthur	
KPAC	1260
San Angelo	
KGKL	1370
San Antonio	
KABC	1420
KMAC	1370
KONO	1370
KTSA	550
WQAI	1190
Sherman	
KRRV	1310
Sweetwater	
KXOX	1210
Temple	
KTEM	1370
Texarkana	
KCMC	1420
Tyler	
KGKB	1500
Vernon	
KVWC	1500

Victoria	
KVIC	1310
Waco	
WACO	1420
Weslaco	
KRGV	1260
Wichita Falls	
KWFT	620

UTAH

Cedar City	
KSUB	1310
Logan	
KVNU	1200
Ogden	
KLO	1400
Price	
KEUB	1420
Provo	
KOVO	1210
Salt Lake City	
KDYL	1290
KSL	1130
KUTA	1500

VERMONT

Burlington	
WCAX	1200
Rutland	
WYSB	1500
St. Albans	
WQDM	1390
Springfield	
WNBX	1260
Waterbury	
WDEV	550

VIRGINIA

Charlottesville	
WCHV	1420
Danville	
WBTM	1370
Fredericksburg	
WPVA	1260
Harrisonburg	
WSVA	550
Lynchburg	
WLVA	1200
Newport News	
WGH	1310
Norfolk	
WTAR	780
Petersburg	
WPIV	1210
Richmond	
WBBL	1210
WMBG	1350
WRNL	880
WRTD	1500
WIVA	1110
Roanoke	
WDBJ	930
Suffolk	
WLPM	1420

WASHINGTON

Aberdeen	
KXRO	1310
Bellingham	
KVOS	1200

Centralia	
KELA	1440
Everett	
KRKO	1370
Longview	
KWLK	780
Olympia	
KGY	1210
Pullman	
KWSC	1220
Seattle	
KEEN	1370
KIRO	710
KJR	970
KOL	1270
KOMO	920
KRSC	1120
KTW	1220
KXA	760

Spokane	
KFTO	1120
KFPY	890
KGA	1470
KHQ	590
Tacoma	
KMO	1330
KVI	570
Vancouver	
KVAN	880
Walla Walla	
KUJ	1370
Wenatchee	
KPQ	1500
Yakima	
KIT	1250

WEST VIRGINIA

Beechley	
WJLS	1210
Bluefield	
WHIS	1410
Charleston	
WCBS	580
WGKV	1500
Clarksburg	
WBLK	1370
Fairmont	
WMMN	890
Huntington	
WSAZ	1190
Parkersburg	
WPAR	1420
Wheeling	
WVVA	1160
Williamson	
WBTH	1370

WISCONSIN

Eau Claire	
WEAU	1050
Fond du Lac	
KFIZ	1420
Green Bay	
WBXY	1200
WTAQ	1330
Janesville	
WCLO	1200
LaCrosse	
WKLB	1380
Madison	
WHA	940

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

WIBA	1280
Manitowoc	
WOMT	1210
Marinette	
WMAM	570
Milwaukee	
WEMP	1810
WISN	1120
WTMJ	620
Poynette	
WIBU	1210
Racine	
WRJN	1370
Rice Lake	
WJMC	1210
Sheboygan	
WBHL	1300
Stevens Point	
WLBL	900
Superior	
WDSM	1200
Wausau	
WSAU	1370

WYOMING

Casper	
KDFN	1440
Rock Springs	
KVRS	1370
Sheridan	
KWYO	1370

BAHAMAS

Nassau	
ZNS	790

CANADA ALBERTA.

Calgary	
CFAC	930
CFCN	1030
CJCI	690
Edmonton	
CFRN	960
CJCA	730
CKUA	580
Grande Prairie	
CFGP	1200
Lethbridge	
CJOC	1210

BRITISH COLUMBIA

Chilliwack	
CHWK	780
Kamloops	
CFJC	880
Kelowna	
CKOV	630
Nelson	
CKLN	1420
Prince Rupert	
CFPR	580
Trail	
CJAT	910
Vancouver	
CBR	1100
CJOB	600
CKCD	1010

CKFC	1410
CKMO	1410
CKWX	1010
Victoria	
CFCT	1450

MANITOBA

Brandon	
CKX	1120
Flin Flon	
CFAR	1370
Winnipeg	
CJRC	630
CKY	910

NEW BRUNSWICK

Fredericton	
CFNB	550
Moncton	
CKCW	1870
Sackville	
CBA	1050
St. John	
CHSJ	1120

NOVA SCOTIA

Glace Bay	
VAS	685
Halifax	
CHNS	930
Sydney	
CJCB	1240
Wolfville	
CKIK	1010
Yarmouth	
CJLS	1310

ONTARIO

Brantford	
CKPK	930
Chatham	
CFCO	630
Cobalt	
CKMC	1210
Fort William	
CKPR	580
Hamilton	
CHML	1010
CKOC	1120
Kenora	
CKCA	1420
Kingston	
CFRC	1510
Kirkland Lake	
CJKL	1810
London	
CFPL	730
North Bay	
CFCH	930
Ottawa	
CBO	880
CKCO	1010
Owen Sound	
CFOS	1370
Prescott	
CFLC	930
St. Catharines	
CKTB	1200

Sault Ste. Marie	
CJIC	1500
Stratford	
CJCS	1210
Sudbury	
CKSO	780
Timmins	
CKGB	1440
Toronto	
CBL	840
CBY	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	980
CFCF	600
CHLP	1120
CKAC	730
New Carlisle	
CHNC	610
Quebec	
CHRC	580
CKCV	1310
CBV	950
Rimouski	
CJBR	1030
Rouyn	
CKRN	1370
St. Anne de la Pocatiere	
CHGE	1200
Sherbrooke	
CHLT	1210
Three Rivers	
CHLN	1420

ASKATCHEWAN

Moose Jaw	
CHAB	1200
Prince Albert	
CKBI	1210
Regina	
CJRM	950
CKCK	1010
Saskatoon	
CFQC	600
Watrous	
CBK	540
Yorkton	
CJGX	1430

COSTA RICA

Alajuela	
T5JCV	575
San Jose	
TLAFB	900
TEEMC	860
TTEP	830
TIFA	1000
TIGH	690
TIGPH	600
TIGPH2	1225
TTHO	1030
TLJ	775
TLIS	880
TINBC	1070
TING	750
TIOS	940
TIPG	625
TIRCC	1200
TIRS	920
TIXD	800

CUBA

Bayamo	
CMKL	950
Calbarien	
CMED	1270
Camaguey	
CMJA	860
CMJC	1390
CMJE	1230
CMJF	920
CMJK	1290
CMJW	1070
CMJX	740
Cardenas	
CMGE	1370
Ciego de Avila	
CMJH	1360
CMJI	1130
CMJO	1260
Cienfuegos	
CMJL	1160
CMHM	1450
CMHX	1480

Cruces	
CMHK	1210
Guantanamo	
CMKS	710
Guines	
CMRT	1580
Havana	

CMBC	690
CMBD	1260
CMBF	1560
CMBG	1140
CMBH	1600
CMBL	750
CMBQ	910
CMBS	1170
CMBX	1080
CMBY	1440
CMBZ	940
CMC	1530
CMCA	1350
CMCB	1230
CMCD	630
CMCF	810
CMCG	1290
CMCH	1050
CMCI	1110
CMCK	970
CMCL	730
CMCM	850

CMCO	1200
CMCQ	1410
CMCU	1010
CMCR	1320
CMCW	3380
CMCX	1470
CMCY	570
CMK	720
CMQA	660
CMQX	1500
CMQ	780
CMW	550
CMX	880
Holguin	
CMKF	1460
CMKO	1280

Manzanillo	
CMKE	1310
CMKM	1080

Matanzas	
CMGF	1120
CMGH	790

Moron	
MJP	1420

Palma Soriano	
CMKZ	1430
Pinar del Rio	
CMAB	1240

Plaetas	
CMEP	1100
Sagua la Grande	
CMFA	1090
CMHO	870
Sancti Spiritus	
CMHB	1240

Santa Clara	
CMHI	830
CMHW	680

Santiago	
CMKC	1250
CMKD	910
CMKG	1150
CMKQ	1490
CMKR	1400
CMKW	750
CMKX	1190

Trinidad	
CMHT	920

DOMINICAN REPUBLIC

Ciudad Trujillo	
HTG	900
HIN	1090
HIX	800
HIT	1050
HTZ	1370
HTSQ	1470

EL SALVADOR

San Salvador	
YSS	640

GUATEMALA

Guatemala City	
TGW	1520
TGX	1400
TGI	1310

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Quezaltenango TGQ 1450	XEP 1180 Parral XEAT 1210	GUANAJUATO Irapuato XEBO 1310 Leon XEFM 1160 XEKL 1240 Silao XEWE 720	SAN LUIS POTOSI San Luis Potosi XECZ 1370	VERACRUZ Cordoba XEAG 1310 XECW 1240 Jalapa XEXB 1270 Minatitlan XEDW 1150 Veracruz XETF 1220 XEU 1010
HONDURAS Tegucigalpa HRN 1450	COAHUILA Piedras Negras XEMU 680 XEPN 730 Sabinas XEBX 640 Saltitillo XEAS 1160 Torreón XETB 1310 XEDM 1400 Villa Ahona XEDH 1340 XERA 840	JALISCO Guadalajara XED 1160 XEHK 1230 XELW 1340 Guzman XEBA 1080	SINALOA Mazatlan XEBL 1220 XEDS 1400	
MEXICO Aguascalientes Aguascalientes XEAD 1240 XEBI 1000	DISTRITO FEDERAL Mexico City XEAI 1260 XEB 1030 XEBS 1340 XEBZ 810 XEDA 1220 XEDP 1080 XEFO 940 XEFP 1130 XEK 990 XEKR 1280 XEL 1150 XELZ 1370 XEN 730 XEQ 730 XEQK 1500 XERC 830 XERH 1430 XESM 1270 XEW 890 XEXX 1170	MEXICO Texcoco XEXE 1270 Toluca XECH 1490	SONORA Cananea XEPQ 1010 Guaymas XEDR 1490 Hermosillo XEBH 930 Navojua XEAJ 1400 XEDL 1240 Nogales XEAF 990 Oregon XEAP 1340	YUCATAN Merida XEFC 1340 XEME 1240 XEZ 630
BAJA CALIFORNIA Mexicali XBAA 750 XEAO 660 XECL 1100 Tijuana XEAC 980 XEAX 1310 XEBG 820 XEC 1150 XELO 730 XEMO 860 XERB 1090		MICHOACAN Morelia XEBC 1240 XEI 1370	TAMAULIPAS Matamoros XEAM 760 Nuevo Laredo XEBK 1080 XEDF 810 XEFP 980 XENT 910 Reynosa XEAW 960 Tampico XECA 1230 XEPW 1310 XES 990 Victoria XEBJ 1340	MIQUELON St. Pierre FQN 609
CHIQUAHUA Chihuahua XEBU 1240 XEBW 1340 XEFI 1440 XEM 1390 Juarez XEF 1450 XEFV 1210 XEJ 1020	DURANGO Durango XEBP 1150 XEE 1210	NUEVO LEON Monterrey XEFB 870 XEG 1230 XEH 740 XET 600 XEX 1310		NEWFOUNDLAND St. John's VOAC 1065 VOAR 950 VOCM 1040 VOGY 840 VONF 640 VOWR 700
		OAXACA Oaxaca XEXH 1150		PANAMA Colon HOK 640
		PUEBLA Puebla XETH 1210		

(Continued from 82)

1370 WIBM	Jackson, Mich., 250 from 100(.25)	1420 WMBH	Joplin, Mo., 250 from 100(.25)
1390 XEM	Chihuahua, Chih., from 1380 Power	1420 WMBB	Uniontown, Pa., 250 from 100(.25)
1370 WJAC	Johnstown, Pa., 250 from 100(.25)	1420 WNOE	New Orleans, La., 250 from 100(.25)
1370 WMIN	St. Paul, Minn., 250 from 100(.25)	1420 WPAD	Paducah, Ky., 250 from 100(.25)
1370 WRAK	Williamsport, Pa., 250 from 100(.25)	1430 WHP	Harrisburg, Pa., 1000(5) from 500(1)
1370 WRJN	Racine, Wis., 250 from 100(.25)	1440 XEFI	Chihuahua, Chih., 1 kw from 250
1420 KFAM	St. Cloud, Minn., 250 from 100(.25)	1490 WCKY	Covington, Ky., 50 kw from 10 kw
1420 KGFF	Shawnee, Ok., 250 from 100(.25)	1500 KGKY	Scottsbluff, Nebr., 250 from 100(.25)
1420 KRBC	Abilene, Tex., 250 from 100(.25)	1500 KNOW	Austin, Tex., 250 from 100
1420 KRIC	Beaumont, Tex., 250 from 100(.25)	1500 KPAB	Laredo, Tex., 250 from 100(.25)
1420 WHFC	Cicero, Ill., 250 from 100	1500 KPLC	Lake Charles, La., 250 from 100(.25)
1420 WHFC	Ironwood, Mich., 250 from 100	1500 KPLC	Lake Charles, La., 250 from 100(.25)
1420 WMAS	Springfield, Mass., 250 from 100(.25)	1500 KSAM	Huntsville, Tex., 250 from 100
1420 WMBC	Detroit, Mich., 250 from 100(.25)	1500 KVWC	Vernon, Tex., 250 from 100(.25)
		1500 WDAN	Danville, Ill., 250 from 100(.25)

(Please turn to page 94)

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	CKCL	580	CMBQ	910	CMHK	1210	CMKX	1190
CBF	910	CHGS	1450	CKCO	1010	CMB5	1170	CMHM	1450	CMKZ	1430
CBJ	1120	CHLN	1420	CKCR	1510	CMBX	1080	CMHO	870	CMOA	660
CBK	540	CHLP	1120	CKCV	1310	CMBY	1440	CMHP	1100	CMOX	1500
CBL	840	CHLT	1210	CKCW	1370	CMBZ	940	CMHT	920	CMQ	780
CBM	960	CHML	1010	CKFC	1410	CMC	1530	CMHW	680	CMW	550
CBO	880	CHNC	610	CKGB	1440	CMCA	1350	CMHX	1480	CMX	880
CBR	1100	CHNS	930	CKIC	1010	CMCB	1230	CMJA	860	CM9RT	1580
CBV	950	CHRC	580	CKLN	1420	CMCD	630	CMJC	1390	FQN	609
CBY	1420	CHSJ	1120	CKLW	1030	CMCF	810	CMJE	1230	HIG	900
CFAC	930	CHWK	780	CKMC	1210	CMCG	1290	CMJF	930	HIN	1090
CFAR	1370	CJAT	910	CKMO	1410	CMCJ	1110	CMJH	1360	HIT	1050
CFCF	600	CJBR	1030	CKNX	1200	CMCH	1050	CMJI	1430	HIX	800
CFCH	930	CJCA	730	CKOC	1120	CMCK	970	CMJK	1290	HIZ	1370
CFCN	1030	CJCB	1240	CKOV	630	CMCL	730	CMJO	1260	H18Q	1470
CFCO	630	CJCJ	690	CKPC	930	CMCM	850	CMJP	1420	HOK	640
CFCT	1450	CJCS	1210	CKPR	580	CMCO	1200	CMJW	1070	HRN	1450
CFCY	630	CJGX	1430	CKRN	1370	CMCQ	1410	CMJX	740	KABC	1420
CFGP	1200	CJIC	1500	CKSO	780	CMCR	1320	CMK	720	KABR	1390
CFJC	880	CJKL	1310	CKTB	1200	CMCU	1010	CMKC	1250	KADA	1200
GFLC	930	CJLS	1310	CKUA	580	CMCW	1380	CMKD	910	KALB	1210
CFNB	550	CJOC	1210	CKWX	1010	CMCX	1470	CMKE	1310	KALE	1300
CFOS	1370	CJOR	600	CKX	1120	CMCY	590	CMKF	1460	KAND	1310
CFPL	730	CJRC	630	CKY	910	CMGE	1370	CMKG	1150	KANS	1210
CFPR	580	CJRM	950	CMAB	1240	CMGF	1120	CMKL	950	KARK	890
CFQC	600	CKAC	730	CMBC	690	CMGH	790	CMKM	1080	KARM	1310
CFRB	690	CKBI	1210	CMBD	1260	CMHA	1090	CMKO	1280	KASA	1210
CFRC	1510	CKCA	1420	CMBF	1560	CMHB	1240	CMKQ	1490	KAST	1200
CFRN	960	CKCD	1010	CMBG	1140	CMHD	1270	CMKR	1400	KATE	1420
CHAB	1200	CKCH	1210	CMBH	1600	CMHI	830	CMKS	710	KAWM	1500
CHCK	1310	CKCK	1010	CMBL	750	CMHJ	1160	CMKW	770	KBIX	1500

KBKR	1500	KFBK	1490	KFXJ	1200	KGLU	1420	KLCN	1290	KOL	1270
KBND	1310	KFDA	1500	KFXM	1210	KGMB	1320	KLO	1400	KOMA	1480
KBPS	1420	KFDM	560	KFYO	1310	KGNC	1410	KLPM	1360	KOME	1310
KBST	1500	KFDY	780	KFYR	550	KGNF	1430	KLRA	1390	KOMO	920
KBTM	1200	KFEL	920	KGA	1470	KGNO	1340	KLS	1280	KONO	1370
KCKN	1310	KFEQ	680	KGB	1330	KGO	790	KLUF	1370	KOOS	1200
KCMC	1420	KFGQ	1370	KGBU	900	KGU	750	KLX	880	KORE	1420
KCMO	1450	KFH	1300	KGBX	1230	KGVO	1260	KLZ	560	KOTN	1500
KCRC	1360	KFI	640	KGCA	1270	KGW	620	KMA	930	KOVC	1500
KCRJ	1310	KFIO	1120	KGCU	1240	KGY	1210	KMAC	1370	KOVO	1210
KDAL	1500	KFIZ	1420	KGCX	1450	KHAS	1200	KMBC	950	KOWH	660
KDB	1500	KFJB	1200	KGDE	1200	KHBC	1400	KMED	1410	KOY	1390
KDFN	1440	KFJI	1210	KGDM	1100	KHBG	1210	KMJ	580	KPAB	1500
KDKA	980	KFJM	1410	KGEK	1200	KHJ	900	KMLB	1200	KPAC	1260
KDLR	1210	KFJZ	1240	KGER	1360	KHQ	590	KMMJ	740	KPDN	1310
KDNT	1420	KFKA	880	KGEZ	1310	KHSL	1260	KMO	1330	KPFA	1210
KDON	1210	KFKU	1220	KGFF	1420	KHUB	1310	KMOX	1090	KPFT	1210
KDRO	1500	KFNF	890	KGFI	1500	KICA	1370	KMPC	710	KPLC	1500
KDTH	1340	KFOR	1210	KGFI	1200	KID	1320	KMTR	570	KPLT	1500
KDYL	1290	KFOX	1250	KGFL	1370	KIDO	1350	KNEL	1500	KPMC	1550
KECA	780	KFPL	1310	KGFW	1310	KIDW	1420	KNET	1420	KPO	680
KEEN	1370	KFPW	1210	KGFX	630	KIEM	1450	KNOW	1500	KPOF	880
KELA	1440	KFPY	890	KGGF	1010	KIEV	850	KNX	1050	KPPC	1210
KELD	1370	KFQD	780	KGGM	1230	KINY	1430	KOA	830	KPQ	1500
KELO	1200	KFRC	610	KGHF	1320	KIRO	710	KOAC	550	KPRC	920
KERN	1370	KFRO	1370	KGHI	1200	KIT	1250	KOAM	790	KQV	1380
KEUB	1420	KFRU	630	KGHL	780	KITE	1530	KOB	1180	KQW	1010
KEX	1180	KFSD	600	KGIR	1340	KIUL	1210	KOBH	1370	KRBA	1310
KFAB	770	KFSG	1120	KGIW	1420	KIUN	1370	KOCA	1210	KRBC	1420
KFAC	1300	KFUO	550	KGKB	1500	KIUP	1370	KOCY	1310	KRBM	1420
KFAM	1420	KFVD	1000	KGKL	1370	KJBS	1070	KOH	1380	KRE	1370
KFAR	610	KFVS	1210	KGKO	570	KJR	970	KOIL	1260	KRGV	1260
KFBB	1280	KFWB	950	KGKY	1500	KLAH	1210	KOIN	940	KRIC	1420
KFBI	1050	KFXD	1200	KGLO	1210	KLBM	1420	KOKO	1370	KRIS	1330

KRKD 1120	KVOO 1140	KVOL 1310	KYA 1230	VOAR 950	WBAX 1210
KRKO 1370	KTEM 1370	KVOR 1270	KYCA 1500	VOWR 700	WBBC 1400
KRLC 1390	KTFI 1240	KVOS 1200	KYOS 1040	WAAB 1410	WBBL 1210
KRLD 1040	KTHS 1060	KVOX 1310	KYSM 1500	WAAF 920	WBBM 770
KRLH 1420	KTKC 890	KVRS 1370	KYUM 1210	WAAT 940	WBBR 1300
KRMC 1370	KTMS 1220	KVSF 1310	KYW 1020	WABC 860	WBBZ 1200
KRMD 1310	KTOH 1500	KVSO 1210	TGQ 1450	WABI 1200	WBCM 1410
KRNR 1500	KTOK 1370	KVWC 1500	TGW 1520	WABY 1370	WBEN 900
KRNT 1320	KTRB 740	KWAL 1420	TGX 1400	WACO 1420	WBEO 1310
KROC 1310	KTRH 1290	KWBD 1200	TGI 1310	WADC 1320	WBHP 1200
KROD 1500	KTRI 1420	KWBG 1420	TIAFB 900	WAGA 1450	WBIG 1440
KROW 930	KTSA 550	KWEW 1500	TIEMC 860	WAGF 1370	WBIL 1100
KROY 1210	KTSM 1310	KWFC 1310	TIEP 830	WAGM 1420	WBLK 1370
KRRV 1310	KTSW 1370	KWFT 620	TIFA 1000	WAIM 1200	WBNS 1430
KRSC 1120	KTUC 1370	KWVG 1200	TIGH 690	WAIR 1250	WBNX 1350
KSAC 580	KTUL 1400	KWJB 1210	TIGPH 605	WAKR 1530	WBNY 1370
KSAL 1500	KTW 1220	KWJJ 1040	TIGPH2 1225	WALA 1380	WBOQ 860
KSAM 1500	KUIN 1310	KWK 1350	TIHO 1030	WALR 1210	WBOW 1310
KSAN 1420	KUJ 1370	KWKH 1100	TILJ 775	WAML 1310	WBRB 1210
KSCJ 1330	KUOA 1260	KWLC 1270	TILS 880	WAPI 1140	WBRC 930
KSD 550	KUSD 890	KWLK 780	TINBC 1070	WAPQ 1420	WBRE 1310
KSEI 900	KUTA 1500	KWNO 1200	TING 750	WARD 1400	WBRK 1310
KSFO 560	KVAK 1420	KWOC 1310	TIOS 940	WASH 1270	WBRY 1530
KSL 1130	KVAN 880	KWOS 1310	TIPG 625	WATL 1370	WBT 1080
KSLM 1360	KVCV 1200	KWSC 1220	TIRCC 1200	WATR 1290	WBTH 1370
KSO 1430	KVEC 1200	KWTO 560	TIRS 920	WAVE 940	WBTM 1370
KSOO 1110	KVFD 1370	KWYO 1370	TIXD 800	WAWZ 1350	WBZ 990
KSRO 1310	KVGB 1370	KXA 760	TI4NRH 725	WAYX 1200	WBZA 990
KSTP 1460	KVI 570	KXL 1420	TISCY 575	WAZL 1420	WCAD 1220
KSUB 1310	KVIC 1310	KXO 1500	VAS 685	WBAA 890	WCAE 1220
KSUN 1200	KVNU 1200	KXOK 1250	VOCM 1040	WBAB 1200	WCAL 760
KTAR 620	KVOA 1260	KXOX 1210	VONF 640	WBAL 760	WCAM 1280
KTBC 1120	KVOD 630	KXRO 1310	VOGY 840	WBAL 1060	WCAO 600
KTBS 1450	KVOE 1500	KXYZ 1440	VOAC 1065	WBAP 800	WCAP 1280

WCAR 1100	WDAN 1500	WESX 1500	WGES 1360	WHEB 740	WINS 1180
WCAT 1200	WDAS 1370	WEVD 1310	WGH 1310	WHEC 1430	WIOD 610
WCAU 1170	WDAY 940	WEW 760	WGIL 1500	WHFC 1420	WIP 610
WCAX 1200	WDBJ 930	WEXL 1310	WGKY 1500	WHIO 1260	WIRE 1400
WCAZ 1070	WDBO 580	WFAA 800	WGL 1370	WHIP 1480	WIS 560
WCBA 1440	WDEL 1120	WFAM 1200	WGN 720	WHIS 1410	WISE 1370
WCBD 1080	WDEV 550	WFAS 1210	WGNC 1420	WHJB 620	WISN 1120
WCBM 1370	WDGY 1180	WFBC 1300	WGNV 1220	WHK 1390	WJAC 1370
WCBS 1420	WDLP 1200	WFBG 1310	WGPC 1420	WHKC 640	WJAG 1050
WCCO 810	WDNC 1500	WFBL 1360	WGR 550	WHKY 1370	WJAR 890
WCFL 970	WDOD 1280	WFBM 1230	WGRC 1370	WHLB 1370	WJAS 1290
WCHS 580	WDRC 1330	WFBR 1270	WGRM 1210	WHLD 1260	WJAX 900
WCHV 1420	WDSM 1200	WFDL 1310	WGST 890	WHLS 1370	WJBC 1200
WCKY 1490	WDSU 1250	WFEA 1340	WGTC 1500	WHMA 1420	WJBK 1500
WCLE 610	WDWS 1370	WFIG 1310	WGTM 1310	WHN 1010	WJBL 1200
WCLO 1200	WDZ 1020	WFIL 560	WGY 790	WHO 1000	WJBO 1120
WCLS 1310	WEAF 660	WFLA 620	WHA 940	WHOM 1450	WJBY 1210
WCMI 1310	WEAN 780	WFMD 900	WHAI 1210	WHP 1430	WJBW 1200
WCNC 1370	WEAU 1050	WFMJ 1420	WHAM 1150	WHUB 1370	WJDX 1270
WCNW 1500	WEBC 1290	WFNC 1340	WHAS 820	WIBA 1280	WJEJ 1210
WCOA 1340	WEBQ 1210	WFOR 1370	WHAT 1310	WIBC 1050	WJHL 1200
WCOC 880	WEBR 1310	WFOY 1210	WHAZ 1300	WIBG 970	WJHP 1290
WCOL 1210	WEDC 1210	WFTC 1200	WHB 860	WIBM 1370	WJIM 1210
WCOP 1120	WEED 1420	WFTL 1370	WHBB 1500	WIBU 1210	WJJD 1130
WCOS 1370	WEEI 590	WFVA 1260	WHBC 1200	WIBW 580	WJLS 1210
WCOU 1210	WEEU 830	WGAL 1500	WHBF 1240	WIBX 1200	WJMC 1210
WCOV 1210	WELI 930	WGAN 640	WHBI 1250	WICA 940	WJMS 1420
WCPO 1200	WELL 1420	WGAR 1450	WHBL 1300	WICC 600	WJNO 1200
WCRW 1210	WEMP 1310	WGAU 1310	WHBQ 1370	WIL 1200	WJPF 1310
WCSC 1360	WENR 870	WGBB 1210	WHBU 1210	WILL 580	WJPR 1310
WCSH 940	WENY 1200	WGBF 630	WHBY 1200	WILM 1420	WJR 750
WDAE 1220	WEOA 1370	WGBI 880	WHDF 1370	WIND 560	WJRD 1200
WDAF 610	WESG 850	WGBR 1370	WHDH 830	WING 1380	WJSV 1460
WDAH 1310	WEST 1200	WGCM 1210	WHDL 1400	WINN 1210	WJTN 1210

WJW	1210	WLS	870	WMP5	1430	WOV	1130	WRR	1280	WSVA	550
WJZ	760	WLTH	1400	WMRO	1250	WOW	590	WRTD	1500	WSVS	1370
WKAQ	1240	WLVA	1200	WMSD	1420	WOWO	1160	WRUF	830	WSYB	1500
WKAR	850	WLW	700	WMT	600	WPAD	1420	WRVA	1110	WSYR	570
WKAT	1500	WMAL	630	WNAC	1230	WPAR	1420	WSAI	1330	WSYU	570
WKBB	1500	WMAM	570	WNAD	1010	WPAX	1210	WSAJ	1310	WTAD	900
WKBH	1380	WMAN	1370	WNAX	570	WPAY	1370	WSAL	1200	WTAG	580
WKBN	570	WMAQ	670	WNBC	1380	WPEN	920	WSAN	1440	WTAL	1310
WKBO	1200	WMAS	1420	WNBF	1500	WPG	1100	WSAR	1450	WTAM	1070
WKBV	1500	WMAZ	1180	WNBH	1310	WPIC	780	WSAU	1370	WTAQ	1330
WKBW	1480	WMBC	1420	WNBX	1260	WPIV	1210	WSAV	1310	WTAR	780
WKBZ	1500	WMBD	1440	WNBZ	1290	WPRA	1370	WSAY	1210	WTAW	1120
WKEU	1500	WMBF	610	WNEL	1290	WPRO	630	WSAZ	1190	WTAX	1210
WKNY	1500	WMBG	1350	WNEW	1250	WPRP	1420	WSB	740	WTBO	800
WKOK	1210	WMBH	1420	WNLC	1500	WPTF	680	WSBC	1210	WTCN	1250
WKRC	550	WMBI	1080	WNOE	1420	WQAM	560	WSBT	1360	WTEL	1310
WKST	1250	WMBO	1310	WNOX	1010	WQAN	880	WSFA	1410	WTHT	1200
WKY	900	WMBR	1370	WNYC	810	WQBC	1360	WSGN	1310	WTIC	1040
WKZO	590	WMBS	1420	WOAI	1190	WQDM	1390	WSIX	1210	WTJS	1310
WLAC	1470	WMC	780	WOC	1370	WQXR	1550	WSJS	1310	WTMA	1210
WLAK	1310	WMCA	570	WOCD	1210	WRAK	1370	WSKB	1200	WTMC	1500
WLAP	1420	WMEX	1500	WOI	640	WRAL	1210	WSLI	1420	WTMJ	620
WLAW	680	WMFD	1370	WOKO	1430	WRAW	1310	WSM	650	WTMY	1500
WLB	760	WMFF	1310	WOL	1230	WRBL	1200	WSMB	1320	WTNJ	1280
WLBC	1310	WMFG	1210	WOLS	1200	WRC	950	WSNJ	1210	WTOC	1260
WLBJ	1310	WMFJ	1420	WOMI	1500	WRDO	1370	WSOC	1210	WTOL	1200
WLBL	900	WMFO	1370	WOMT	1210	WRDW	1500	WSOO	1200	WTRC	1310
WLBZ	620	WMFR	1200	WOCB	1210	WREC	600	WSPA	920	WTRY	950
WLEU	1420	WMGA	1370	WOPI	1500	WREN	1220	WSPB	1420	WTSP	1370
WLLH	1370	WMIN	1370	WOR	710	WRGA	1500	WSPD	1340	WVFW	1400
WLLH	1370	WMMN	890	WORC	1280	WRJN	1370	WSPR	1140	WWAE	1200
WLNH	1310	WMOB	1200	WORK	1320	WRNL	880	WSTP	1500	WWJ	920
WLOK	1210	WMOG	1500	WORL	920	WROK	1410	WSUI	880	WWL	850
WLPM	1420	WMPC	1200	WOSU	570	WROL	1310	WSUN	620	WWNC	570

WWRL 1500	XEAU 1310	XEC 1150	XEFB 870	XEL 1150	XERH 1430
WWSW 1500	XEAW 960	XECA 1230	XEFC 1340	XELO 730	XES 990
WWVA 1160	XEB 1030	XECH 1490	XEFE 989	XELW 1340	XESM 1270
WXYZ 1240	XEBA 1080	XECL 1100	XEFI 1440	XELZ 1370	XET 699
W8XO 700	XEBC 1240	XECW 1240	XEFM 1160	XEM 1390	XETB 1310
XEA 1400	XEBG 820	XECZ 1370	XEFO 940	XEME 1240	XETH 1210
XEAA 750	XEBH 930	XED 1160	XEFQ 1010	XEMO 860	XEU 1010
XEAC 980	XEBI 1000	XEDA 1220	XEFV 1210	XEMU 580	XEW 890
XEAD 1240	XEBJ 1340	XEDF 810	XEFW 1310	XEMX 1280	XEWE 720
XEAF 990	XEBK 1080	XEDH 1340	XEG 1230	XEN 780	XEX 1310
XEAG 1310	XEBL 1220	XEDL 1240	XEH 740	XENT 910	XEXB 1270
XEAI 1250	XEBO 1310	XEDM 1400	XEHK 1230	XEP 1160	XEXE 1270
XEAJ 1400	XEBP 1150	XEDP 1080	XEI 1370	XEPN 730	XEXH 1150
XEAM 750	XEBS 1340	XEDR 1490	XEJ 1020	XEQ 730	XEXX 1170
XEAO 660	XEBU 1240	XEDS 1400	XEJP 1130	XEQK 1500	XEZ 630
XEAP 1340	XEBW 1340	XEDW 1150	KEK 990	XERA 840	YSS 640
XEAS 1160	XEBX 640	XEE 1210	XEKL 1240	XERB 1090	ZNS 790
XEAT 1210	XEBZ 810	XEF 1450	XEKR 1280	XERC 830	

(Continued from page 88)

1500 WGAL	Lancaster, Pa., 250 from 100(.25)
1500 WJBK	Detroit, Mich., 250 from 100(.25)
1500 WKAT	Miami Beach, Fla., 250 from 100(.25)
1500 WKBB	E. Dubuque, Ill., 250 from 100(.25)
1500 WMBF	Binghamton, N. Y., 250 from 100(.25)
1500 WOMI	Owensboro, Ky., 250 from 100(.25)
1500 WRDW	Augusta, Ga., 250 from 100(.25)
1500 WTMV	E. St. Louis, Ill., 250 from 100(.25)
1500 WWSW	Pittsburgh, Pa., 250 from 100(.25)
1500 XEQK	Mexico City, 400 from 100 Network
1200 WDSM	Superior, Wis., to MBS.
1290 WEDC	Duluth, Minn., to MBS.
1330 KSCJ	Sioux City, Iowa, to NBC Owner
1200 WJHL	WJHL, Inc., Johnson City, Tenn.
1220 WGNY	Courier Pub. Corp., Newburgh, N. Y.
1370 WMFO	Tenn. Valley Brdcstg. Co., Inc., Decatur, Ala.
1200 WHBY	Green Bay to Appleton, Wis.
1210 WGRAM	Grenada to Greenwood, Miss.
1050 KFBI	Abilene, to Wichita, Kans.
1500 WKBB	E. Dubuque, Iowa.

770 KFAB	Lincoln, Nebr., to 1080.
1200 WJBL	Decatur, to 1310.
1210 WCOL	Columbus, Ohio, to 1200
1310 WBOW	Terre Haute, to 1200.
1320 KGMB	Honolulu, to-590.
1370 KFRO	Longview, to 1340.
1370 WPRA	Mayaguez, to 780.
1450 KTBS	Shreveport, to 620.
1500 KSAL	Salina, to 1120.
Stations Using Special Frequencies	
Call City	Assigned Using
KIRO Seattle	650 710
KTHS Hot Springs	1040 1060
KWKH Shreveport	850 1100
WTIC Hartford	1060 1040
Permit to Change Power	
590 WKZO	KKalamazoo, to 250(1).
630 WPRO	Providence, to 1000(5).
760 KXA	Seattle, to 1000.
770 KFAB	Lincoln, to 50000.
850 WKAR	E. Lansing, to 5000.
880 WRNL	Richmond, to 1000.
890 KFNF	Shenandoah, to 1000(5).
900 KGBU	Ketchikan, to 1000.
940 WICA	Ashtabula, to 500.
1200 KVNU	Logan, Utah, to 250.
1200 WENY	Elmira, N. Y., to 250
1210 WALR	Zanesville, Ohio, to 250
1210 WCOL	Columbus, Ohio, to 250
1250 WKST	New Castle to 1000.
1310 WBOW	Terre Haute, Ind., to 250 w.
1310 WLNH	Laconia, N. H., to 250 w.
1350 KWK	St. Louis to 5000.
1350 WMBG	Richmond, to 1000(5).
1370 KFRO	Longview, to 1000.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC.

Required by the Acts of Congress of Aug. 24, 1912, and March 3, 1933.

Of Radio Index, published monthly except July and August, at Teaneck, New Jersey for Oct. 1, 1939, State of New Jersey, County of Bergen, ss.:

Before me, a Notary Public in and for the State and county aforesaid, personally appeared Page Taylor, who, having been duly sworn according to law, deposes and says that he is the Business Manager of the RADIO INDEX, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, The Radex Publishing Co., 362 Cedar Lane, Teaneck, N. J., Editor, Page Taylor, 362 Cedar Lane, Teaneck, N. J.; Managing Editor, None; Business Manager, Page Taylor, 362 Cedar Lane, Teaneck, N. J.

2. That the owner is: The Radex Publishing Co., 362 Cedar Lane, Teaneck, N. J. The following are the names and addresses of stockholders holding 1 per cent or more of the capital stock of The Radex Publishing Co.; L. A. Byrne, 147 E. 34th St., N. Y., N. Y. and L. A. Byrne, 147 E. 34th St., N. Y., N. Y. as trustee for W. B. Auer, 148 Copley Ave., Teaneck, N. J., A. F. Wiese, 91 Griggs Ave., Teaneck, N. J. and W. C. Auer, 148 Copley Ave., Teaneck, N. J.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

Page Taylor, Business Manager.

Sworn to and subscribed before me this 25th day of September, 1939.

C. Lawson Graffin,

(Seal) (My commission expires Sept. 1, 1941.)

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Dialing the Europeans, Nov. '38.

Dialing the Asiatics, Dec. '38.

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

Stations of France and Norway, March '39.

Stations of New Zealand, April '39.

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